

City of Allentown

Quarterly Performance Report as of September 30, 2023



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Marquette Update



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Marquette Update

40 2023

\$362B

assets under advisement

99% client retention rate

year in business

QUARTERLY RESEARCH

October 26

3Q Market Insights Webinar: 10/26

YouTube: 10/27



Letter from the Director of Research

UPCOMING SPEAKING ENGAGEMENTS

- Greg Leonberger and Nic Solecki presenting at IFEBP 2023 Conference 10/2 (link)
- ▶ Brett Graffy speaking at AIMSE Fall Conference 10/2 (link)
- ► Greg Leonberger speaking at Institutional Investor 2023 Roundtable for Consultants & Institutional Investors 10/5 (link)
- ► Mike Piotrowski Speaking at IPPFA MidAmerica Conference 10/6 (link)
- Frank Valle Speaking at Southeast Institutional Forum 11/15 (link)





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Thank you for a great Symposium!

We had a great time hosting this year's event! From Frank Kelly's opening conversation covering election expectations and goings-on in Washington to Ben Mezrich's presentation reviewing just a handful of his books and experiences with the characters within them, we hope you too enjoyed the day and came away with a few new ideas and stories to discuss with your committees and fellow staff. All of Marquette's flash talks are now available to watch on our website.

Client data as of June 30, 2023; firm data as of October 2023. Client retention rate calculated as the average annual retention rate trailing ten years. 'By current and former employees. Marquette is an independent investment adviser registered under the Investment Advisers Act of 1940, as amended. Registration does not imply a certain level of skill or training. More information about Marquette including our investment strategies, fees and objectives can be found in our ADV Part 2, which is available upon request and on our website.



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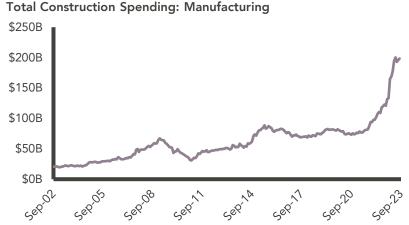
Market Environment



U.S. Economy

- U.S. economic growth accelerated in Q3, with real GDP growing at an annualized rate of 4.9%. Consumer spending was a notable tailwind, while inventory investment and government spending also drove economic activity.
- While consumer spending has surprised to the upside this year, investment spending has also been much stronger than expected amid various stimulus efforts (e.g., CHIPS and Science Act) that have encouraged the construction of domestic manufacturing.
- Through August, for example, construction of manufacturing facilities was nearly 150% higher (in nominal terms) than two years ago as "reshoring" efforts in sectors like semiconductors and clean energy technologies have soared.





Source: Refinitiv, The Wall Street Journal

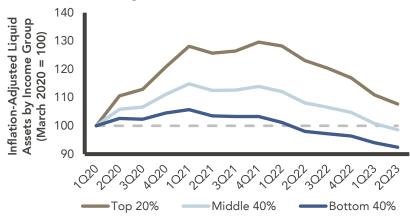
1Striped bars reflect economist estimates from The Wall Street Journal Economic Forecasting Survey.



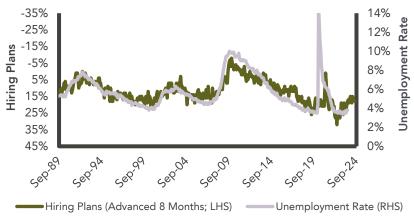
U.S. Economy

- As the economy closes out the year and heads into 2024, the economic outlook likely hinges on the consumer, where it seems that headwinds are beginning to build.
- In the near-term, the restart of student loan payments and higher gasoline prices are likely to lead to a deceleration in consumer spending in Q4.
- Heading into next year, shrinking household savings and a labor market that is likely to weaken may also present challenges.
- More specifically, inflation-adjusted household savings are now below their pre-COVID level for the majority of consumers.
- Further, small business hiring plans have weakened in recent months, which is consistent with a softening labor market and higher unemployment rate in the coming quarters.

Real Household Savings - Pre-COVID Level



Small Business Hiring Plans¹ vs. Unemployment Rate



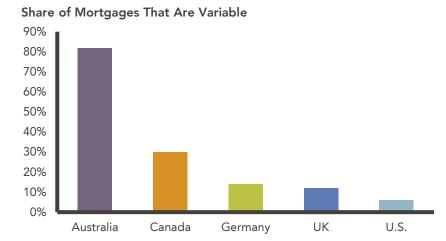
Source: Bloomberg, Federal Reserve, Refinitiv

¹NFIB small business survey: net percentage of respondents planning to increase minus decreases total employees in the next three months

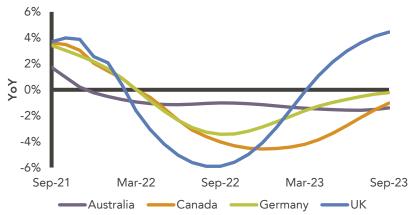


Global Economy

- Economic data in most other major global economic regions and countries has been mixed as central bank tightening appears to have had a larger impact on economic growth.
- Variable-rate mortgages comprise a much larger share of mortgages in many developed market economies, which leaves a faster transmission channel for higher interest rates to have an impact on consumer spending.
- In Australia, for example, variable-rate mortgages account for approximately 80% of all household mortgages, according to PIMCO.
- Further, the typical term length for mortgages outside the U.S. ranges from 2-10 years, generating a higher frequency of refinancings.
- In turn, economic data (as measured by the OECD Leading Economic Indicators) have generally been weaker in those countries where variable-rate mortgages are most prominent.





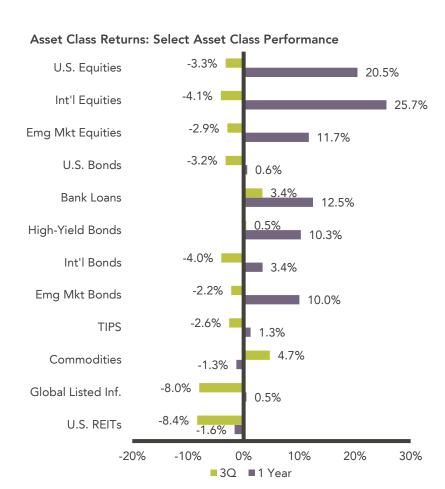


Source: PIMCO, OECD



Global Asset Class Performance

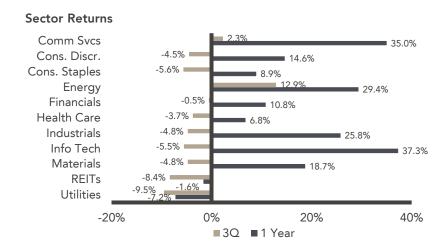
- Global equities retreated in Q3 amid rising interest rates and surging oil prices. U.S equities slightly outperformed their international developed counterparts but slightly lagged emerging markets equities. U.S. dollar strength played a key role during Q3, exacerbating losses for unhedged U.S.-based investors. The greenback detracted approximately 2.8 and 1.5 percentage points, respectively, from international developed and emerging markets returns.
- Fixed income markets were mixed, with investmentgrade bonds in the red due to higher rates across the yield curve. Sub-investment grade debt, on the other hand, posted gains, with bank loans outperforming high-yield debt given their floating-rate characteristics.
- Inflation-sensitive assets were mostly in the red in Q3. TIPS posted a negative return but outperformed their nominal government bond counterparts due to rising inflation expectations. Global listed infrastructure and REITs lagged broad global and U.S. equity markets, respectively, as higher rates drove the underperformance. Commodities, on the other hand, were in the black thanks in large part to a 15% jump in oil prices.

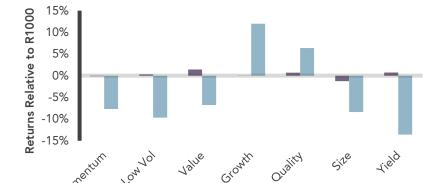




U.S. Equity Markets

- Economic sector performance was mostly negative in Q3, with nine of eleven sectors posting losses. More defensive sectors lagged the broad markets, despite broad equity weakness, as sectors such as Consumer Staples and Utilities were pressured by higher rates. At the other end of the spectrum, Energy and Communication Services posted gains.
- There was little variation from a style perspective, with value stocks topping growth stocks by 0.1 percentage points in Q3. Value benefited from the outperformance of Energy and Financials. Year-to-date, however, growth has outperformed value by nearly 22 percentage points (as measured by their respective Russell 3000 Indices).
- Style and other factor returns were generally muted in Q3, as the market downdraft was broad based. Year-to-date, however, large-cap and growth stocks have dramatically outperformed the broad market, with the potential impact of artificial intelligence capturing investor attention and driving gains in those areas.





OTD YTD

Returns Relative to the Russell 1000

Source: Bloomberg, Refinitiv



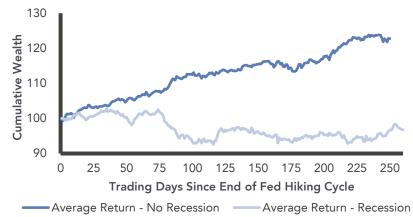
U.S. Equity Markets

- While there have been more gyrations, particularly in Q3, the U.S. market has largely followed the historical script when the S&P 500 is up at least 10% through June since 1950. More specifically, these years have seen weakness or consolidation from the end of July through October.
- If the market continues to align with the directional pattern, history argues that the market will see a decent rally in Q4.
- That said, the key questions moving into next year are likely whether the Federal Reserve is done raising short-term interest rates and whether the economy will enter a recession.
- Since 1971, history shows that the equity market outcomes are radically different, depending on the latter question.
- More specifically, equities have rallied strongly after the Fed's last hike, absent a recession in the next twelve months. If a recession does occur, on the other hand, equities tend to lose ground over the next year.

U.S. Equity Seasonality



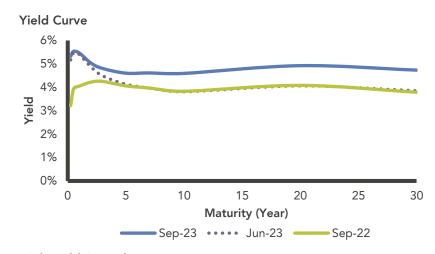
Average Stock Returns After the End of Fed Rate Hiking Cycle

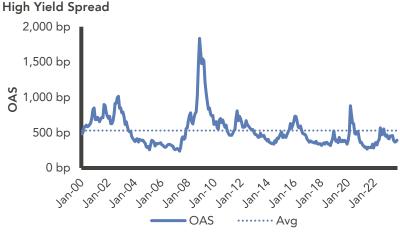




U.S. Fixed Income

- Treasury rates rose across the curve in Q3, though the magnitude was more muted for shorter-dated issues. The long end of the curve saw rates jump notably as the Federal Reserve reiterated its intention to hold rates "higher for longer".
- From a supply and demand perspective, treasury issuance has been much larger than expected, while the Fed continues it quantitative tightening program and foreign investors have dialed back treasury purchases.
- Given higher rates, the broad investment-grade bond market experienced another negative return in Q3, with the Bloomberg Aggregate Index returning -3.2%.
- Sub-investment grade debt, on the other hand, posted gains amid a strong environment for risk assets, with bank loans outperforming highyield debt given their floating rate characteristics. High-yield spreads ended Q3 largely unchanged, despite the equity market weakness.







Global Index Returns

| DOMESTIC EQUITY | QTR | YTD | 1 Year | 3 Year | 5 Year | 10 Year |
|----------------------------------|-------|--------|--------|--------|--------|---------|
| S&P 500 Index | (3.3) | 13.1 | 21.6 | 10.2 | 9.9 | 11.9 |
| Russell 3000 Index | (3.3) | 12.4 | 20.5 | 9.4 | 9.1 | 11.3 |
| Russell 3000 Growth Index | (3.3) | 23.8 | 26.6 | 7.5 | 11.7 | 13.9 |
| Russell 3000 Value Index | (3.2) | 1.7 | 14.1 | 11.2 | 6.0 | 8.3 |
| Russell TOP 200 Index | (2.7) | 16.3 | 23.9 | 10.0 | 10.8 | 12.6 |
| Russell TOP 200 Growth Index | (2.8) | 28.5 | 30.0 | 9.2 | 13.7 | 15.8 |
| Russell TOP 200 Value Index | (2.4) | 2.4 | 16.2 | 11.1 | 6.7 | 8.7 |
| Russell 1000 Index | (3.1) | 13.0 | 21.2 | 9.5 | 9.6 | 11.6 |
| Russell 1000 Growth Index | (3.1) | 25.0 | 27.7 | 9.5 | 12.4 | 14.5 |
| Russell 1000 Value Index | (3.2) | 1.8 | 14.4 | 11.1 | 6.2 | 8.4 |
| Russell Mid-Cap Index | (4.7) | 3.9 | 13.4 | 8.1 | 6.4 | 9.0 |
| Russell Mid-Cap Growth Index | (5.2) | 9.9 | 17.5 | 2.6 | 7.0 | 9.9 |
| Russell Mid-Cap Value Index | (4.5) | 0.5 | 11.0 | 11.0 | 5.2 | 7.9 |
| Russell 2000 Index | (5.1) | 2.5 | 8.9 | 7.2 | 2.4 | 6.6 |
| Russell 2000 Growth Index | (7.3) | 5.2 | 9.6 | 1.1 | 1.6 | 6.7 |
| Russell 2000 Value Index | (3.0) | (0.5) | 7.8 | 13.3 | 2.6 | 6.2 |
| DOMESTIC EQUITY BY SECTOR (MSCI) | | | | | | |
| Communication Services | 2.3 | 37.4 | 35.0 | 3.9 | 8.9 | 7.8 |
| Consumer Discretionary | (4.5) | 24.0 | 14.6 | 3.3 | 9.0 | 11.8 |
| Consumer Staples | (5.6) | (3.3) | 8.9 | 6.5 | 8.5 | 8.8 |
| Energy | 12.9 | 6.9 | 29.4 | 52.4 | 8.1 | 4.1 |
| Financials | (0.5) | (1.2) | 10.8 | 13.8 | 5.5 | 9.4 |
| Health Care | (3.7) | (4.3) | 6.8 | 6.3 | 7.1 | 11.4 |
| Industrials | (4.8) | 7.8 | 25.8 | 12.0 | 7.5 | 10.1 |
| Information Technology | (5.5) | 32.0 | 37.3 | 11.2 | 16.7 | 19.1 |
| Materials | (4.8) | 2.8 | 18.7 | 10.8 | 7.8 | 8.4 |
| Real Estate | (8.4) | (5.6) | (1.6) | 2.7 | 2.8 | 6.1 |
| Utilities | (9.5) | (14.7) | (7.2) | 2.9 | 4.9 | 8.1 |



Global Index Returns

| INTERNATIONAL/GLOBAL EQUITY | QTR | YTD | 1 Year | 3 Year | 5 Year | 10 Year |
|----------------------------------|-------|-------|--------|--------|--------|---------|
| MSCI EAFE (Net) | (4.1) | 7.1 | 25.6 | 5.8 | 3.2 | 3.8 |
| MSCI EAFE Growth (Net) | (8.6) | 4.3 | 20.0 | 0.4 | 3.2 | 4.4 |
| MSCI EAFE Value (Net) | 0.6 | 9.9 | 31.5 | 11.1 | 2.8 | 3.0 |
| MSCI EAFE Small Cap (Net) | (3.5) | 1.8 | 17.9 | 1.1 | 0.8 | 4.3 |
| MSCI AC World Index (Net) | (3.4) | 10.1 | 20.8 | 6.9 | 6.5 | 7.6 |
| MSCI AC World Index Growth (Net) | (4.9) | 18.2 | 24.4 | 3.8 | 8.4 | 9.5 |
| MSCI AC World Index Value (Net) | (1.8) | 2.4 | 17.0 | 9.7 | 4.0 | 5.3 |
| MSCI Europe ex UK (Net) | (5.9) | 8.3 | 30.1 | 5.8 | 4.3 | 4.3 |
| MSCI United Kingdom (Net) | (1.5) | 6.8 | 24.9 | 12.1 | 2.9 | 2.5 |
| MSCI Pacific ex Japan (Net) | (4.8) | (4.4) | 10.6 | 4.1 | 1.8 | 2.8 |
| MSCI Japan (Net) | (1.6) | 11.2 | 25.9 | 2.8 | 2.1 | 4.4 |
| MSCI Emerging Markets (Net) | (2.9) | 1.8 | 11.7 | (1.7) | 0.6 | 2.1 |



Global Index Returns

| FIXED INCOME | QTR | YTD | 1 Year | 3 Year | 5 Year | 10 Year |
|-------------------------------------|--------|-------|--------|--------|--------|---------|
| Merrill Lynch 3-month T-Bill | 1.3 | 3.6 | 4.5 | 1.7 | 1.7 | 1.1 |
| Barclays Intermediate Gov't./Credit | (8.0) | 0.7 | 2.2 | (2.9) | 1.0 | 1.3 |
| Barclays Aggregate Bond | (3.2) | (1.2) | 0.6 | (5.2) | 0.1 | 1.1 |
| Barclays Short Government | 0.7 | 1.7 | 2.5 | (0.9) | 1.0 | 0.8 |
| Barclays Intermediate Government | (8.0) | 0.3 | 1.3 | (3.2) | 0.7 | 0.8 |
| Barclays Long Government | (11.8) | (8.5) | (9.0) | (15.7) | (2.8) | 0.8 |
| Barclays Investment Grade Corp. | (3.1) | 0.0 | 3.6 | (4.9) | 0.9 | 2.2 |
| Barclays High Yield Corp. Bond | 0.5 | 5.9 | 10.3 | 1.8 | 3.0 | 4.2 |
| Credit Suisse Leveraged Loan | 3.4 | 9.9 | 12.5 | 5.9 | 4.3 | 4.3 |
| JPMorgan Global ex US Bond | (4.0) | (3.2) | 3.4 | (8.4) | (3.1) | (1.7) |
| JPMorgan Emerging Market Bond | (2.2) | 1.8 | 10.0 | (4.6) | (0.4) | 2.5 |
| INFLATION SENSITIVE | | | | | | |
| Consumer Price Index | 0.9 | 3.7 | 3.7 | 5.7 | 4.0 | 2.8 |
| BC TIPS | (2.6) | (0.8) | 1.3 | (2.0) | 2.1 | 1.7 |
| Commodities | 4.7 | (3.4) | (1.3) | 16.2 | 6.1 | (0.7) |
| Gold | (3.9) | 1.3 | 10.9 | (1.4) | 8.1 | 2.6 |
| REITs | (8.4) | (5.6) | (1.6) | 2.7 | 2.8 | 6.1 |
| FTSE EPRA/NAREIT Global REITs | (5.6) | (5.1) | 1.8 | (0.4) | (1.7) | 1.8 |
| NCREIF ODCE* | (2.2) | (8.2) | (12.9) | 6.2 | 4.7 | 7.2 |

^{*}Data are preliminary. Source: Refinitiv





PREPARED BY MARQUETTE ASSOCIATES

180 North LaSalle St, Ste 3500, Chicago, Illinois 60601 PHONE 312-527-5500

CHICAGO BALTIMORE MILWAUKEE PHILADELPHIA ST. LOUIS WEB MarquetteAssociates.com

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Portfolio Summary



As of September 30, 2023

Observations

- Police Pension Market Value as of September 30, 2023 was \$202.5 million
 - Q3-23: net investment change of -\$5.3 million
 - Q3-23: the Fund returned -2.6% (net) vs. policy index return of -2.9%
- Firemen Pension Market Value as of September 30, 2023 was \$124.8 million
 - Q3-23: net investment change of -\$3.1 million
 - Q3-23: the Fund returned -2.4% (net) vs. policy index return of -2.6%
- Officers & Employee Pension Market Value as of September 30, 2023 was \$7.0 million
 - Q3-23: net investment change of -\$66K
 - Q3-23: the Fund returned -1.0% (net) vs. policy index return of -1.0%

Looking Ahead

- Cash-Flow Update
- Rebalancing



City of Allentown Police Pension

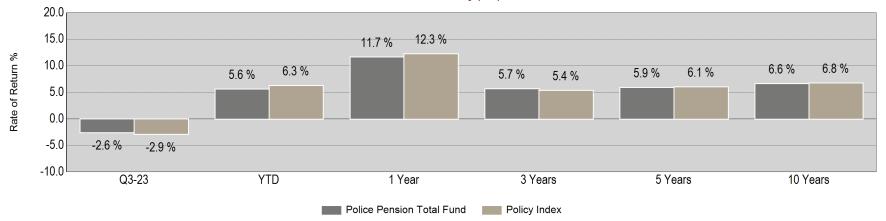
Portfolio Summary

As of September 30, 2023

Summary of Cash Flows

| | Third Quarter | Year-To-Date | One Year | Three Years | Five Years | Ten Years |
|------------------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Beginning Market Value | \$208,571,037 | \$196,239,999 | \$184,372,726 | \$179,871,229 | \$165,601,466 | \$60,757,333 |
| Contributions | \$2,681,694 | \$5,700,134 | \$10,617,101 | \$29,340,972 | \$45,950,968 | \$154,552,682 |
| Withdrawals | -\$3,439,016 | -\$10,479,867 | -\$14,235,136 | -\$39,542,661 | -\$62,492,280 | -\$115,670,735 |
| Net Cash Flow | -\$757,321 | -\$4,779,733 | -\$3,618,035 | -\$10,201,689 | -\$16,541,313 | \$38,881,947 |
| Net Investment Change | -\$5,311,734 | \$11,041,716 | \$21,747,290 | \$32,832,442 | \$53,441,829 | \$102,862,702 |
| Ending Market Value | \$202,501,982 | \$202,501,982 | \$202,501,982 | \$202,501,982 | \$202,501,982 | \$202,501,982 |

Return Summary (Net)



Asset Allocation vs. Target

| | Current | Policy | Difference* | Policy Range | Within Range |
|-------------------|---------|--------|--------------|---------------|--------------|
| U.S. Equity | 50.0% | 50.0% | \$33,075 | 45.0% - 55.0% | Yes |
| Global Equity | 4.1% | 4.0% | \$290,544 | 0.0% - 9.0% | Yes |
| Non-U.S. Equity | 11.8% | 12.0% | -\$430,574 | 7.0% - 17.0% | Yes |
| Real Estate | 11.2% | 10.0% | \$2,478,407 | 5.0% - 15.0% | Yes |
| U.S. Fixed Income | 20.2% | 23.0% | -\$5,713,491 | 18.0% - 28.0% | Yes |
| Cash Equivalent | 2.7% | 1.0% | \$3,342,039 | 0.0% - 5.0% | Yes |
| Total | 100.0% | 100.0% | | | |

^{*}Difference between Policy and Current Allocation



City of Allentown Firemen Pension

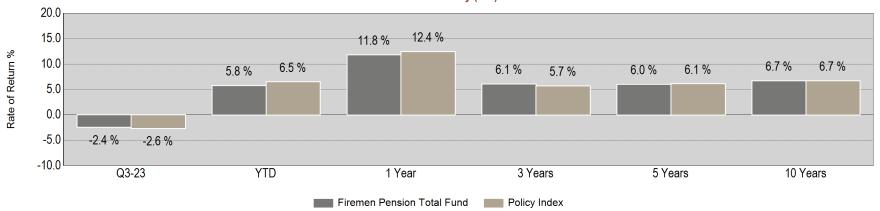
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As of September 30, 2023

Summary of Cash Flows

| | Third Quarter | Year-To-Date | One Year | Three Years | Five Years | Ten Years |
|----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Beginning Market Value | \$128,811,372 | \$121,766,751 | \$115,404,625 | \$114,039,342 | \$108,917,422 | \$41,441,317 |
| Contributions | \$1,163,879 | \$2,481,916 | \$4,548,118 | \$14,161,553 | \$24,638,567 | \$100,278,834 |
| Withdrawals | -\$2,114,028 | -\$6,488,462 | -\$8,844,688 | -\$25,499,213 | -\$43,553,232 | -\$84,650,876 |
| Net Cash Flow | -\$950,150 | -\$4,006,546 | -\$4,296,570 | -\$11,337,659 | -\$18,914,665 | \$15,627,958 |
| Net Investment Change | -\$3,056,946 | \$7,044,072 | \$13,696,222 | \$22,102,595 | \$34,801,520 | \$67,735,001 |
| Ending Market Value | \$124,804,277 | \$124,804,277 | \$124,804,277 | \$124,804,277 | \$124,804,277 | \$124,804,277 |

Return Summary (Net)



Asset Allocation vs. Target

| | Current | Policy | Difference* | Policy Range | Within Range |
|-------------------|---------|--------|--------------|---------------|--------------|
| U.S. Equity | 50.0% | 50.0% | \$47,242 | 45.0% - 55.0% | Yes |
| Global Equity | 4.2% | 4.0% | \$223,515 | 0.0% - 9.0% | Yes |
| Non-U.S. Equity | 11.6% | 12.0% | -\$436,826 | 7.0% - 17.0% | Yes |
| Real Estate | 11.4% | 10.0% | \$1,803,800 | 5.0% - 15.0% | Yes |
| U.S. Fixed Income | 18.7% | 23.0% | -\$5,338,266 | 18.0% - 28.0% | Yes |
| Cash Equivalent | 4.0% | 1.0% | \$3,700,534 | 0.0% - 5.0% | Yes |
| Total | 100.0% | 100.0% | | | |

^{*}Difference between Policy and Current Allocation



City of Allentown Officers & Employee Pension

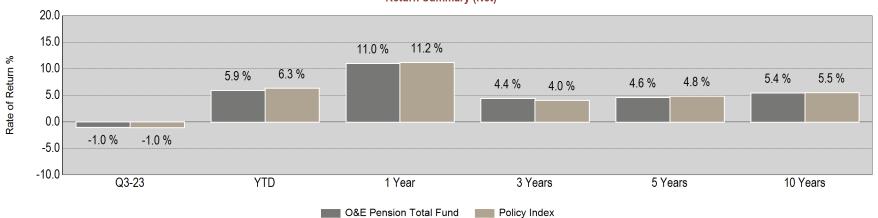
Portfolio Summary

As of September 30, 2023

Summary of Cash Flows

| | Third Quarter | Year-To-Date | One Year | Three Years | Five Years | Ten Years |
|------------------------|---------------|--------------|--------------|--------------|--------------|---------------|
| Beginning Market Value | \$7,362,144 | \$7,521,372 | \$7,444,427 | \$9,635,171 | \$11,931,644 | \$13,718,822 |
| Contributions | \$79,505 | \$138,800 | \$256,163 | \$727,719 | \$1,158,841 | \$6,273,335 |
| Withdrawals | -\$350,198 | -\$1,073,105 | -\$1,470,888 | -\$4,578,277 | -\$8,256,720 | -\$19,559,281 |
| Net Cash Flow | -\$270,693 | -\$934,306 | -\$1,214,725 | -\$3,850,559 | -\$7,097,879 | -\$13,285,946 |
| Net Investment Change | -\$66,076 | \$438,309 | \$795,673 | \$1,240,763 | \$2,191,610 | \$6,592,499 |
| Ending Market Value | \$7,025,375 | \$7,025,375 | \$7,025,375 | \$7,025,375 | \$7,025,375 | \$7,025,375 |

Return Summary (Net)



Asset Allocation vs. Target

| | Current | Policy | Difference* | Policy Range | Within Range |
|-------------------|---------|--------|-------------|---------------|--------------|
| U.S. Equity | 33.3% | 33.5% | -\$12,163 | 28.5% - 38.5% | Yes |
| Global Equity | 3.0% | 3.0% | -\$671 | 0.0% - 8.0% | Yes |
| Non-U.S. Equity | 9.4% | 9.5% | -\$9,578 | 4.5% - 14.5% | Yes |
| U.S. Fixed Income | 39.1% | 52.0% | -\$909,612 | 47.0% - 57.0% | No |
| Cash Equivalent | 15.3% | 2.0% | \$932,025 | 0.0% - 10.0% | No |
| Total | 100.0% | 100.0% | | | |

^{*}Difference between Policy and Current Allocation

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Police Pension

Portfolio Overview

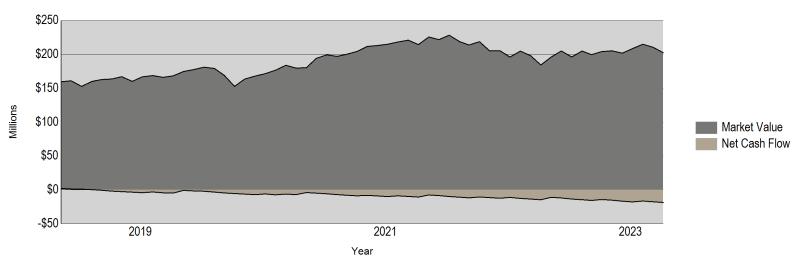


City of Allentown Police Pension

Market Value Summary

As of September 30, 2023





Cash Flow Summary by Manager From July 01, 2023 to September 30, 2023

| | Beginning Market Value | Net Cash Flow | Net Investment Change | Ending Market Value |
|---------------------------------------|---------------------------|---------------|--------------------------|------------------------|
| Vanguard Equity Income | \$12,513,766 | \$0 | -\$248,831 | \$12,264,936 |
| Vanguard Total Stock Market Index | \$61,013,440 | -\$1,500,000 | -\$1,982,217 | \$57,531,224 |
| Vanguard Total Stock Market Index ETF | \$26,595,726 | -\$96,396 | -\$853,797 | \$25,645,534 |
| Vanguard Mid Cap Index | \$6,154,263 | \$0 | -\$311,890 | \$5,842,373 |
| Dodge & Cox Global Stock | \$8,342,915 | \$0 | \$47,708 | \$8,390,623 |
| American Funds Int'l Growth & Income | \$11,739,140 | \$750,000 | -\$492,358 | \$11,996,782 |
| MFS International Intrinsic Value | \$11,688,107 | \$750,000 | -\$565,225 | \$11,872,881 |
| Morgan Stanley Prime Property Fund | \$23,419,704 | -\$639,952 | -\$51,148 | \$22,728,605 |
| Vanguard Total Bond Market Index | \$27,981,823 | \$0 | -\$862,577 | \$27,119,247 |
| Sterling Capital - Short-Term Bonds | \$9,981,758 | -\$2,222,514 | \$109,834 | \$7,869,078 |
| Baird Core Plus Bond Fund | \$6,038,431 | \$0 | -\$164,789 | \$5,873,641 |
| Govt Obligations MM Fund | \$3,101,965 | \$2,201,540 | \$63,554 | \$5,367,059 |
| Total | \$208,571,037 | -\$757,321 | -\$5,311,734 | \$202,501,982 |

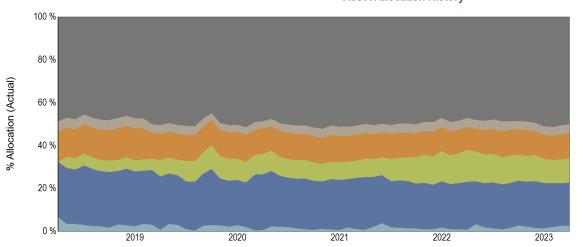


City of Allentown Police Pension

Asset Allocation Summary

As of September 30, 2023



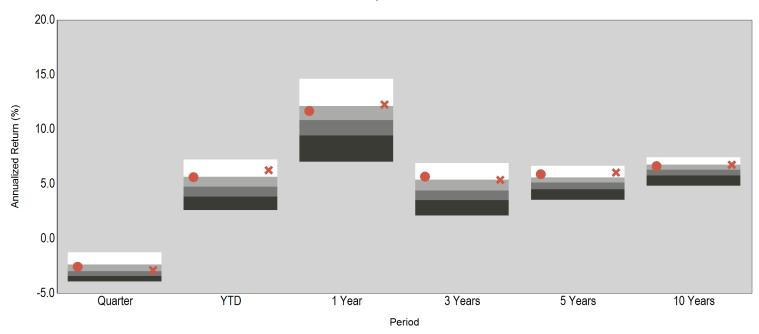




| | Market Value | % of Portfolio | Policy % | Policy Difference |
|---------------------------------------|--------------|----------------|----------|-------------------|
| Police Pension Total Fund | 202,501,982 | 100.0 | 100.0 | 0 |
| Total Equity Composite | 133,544,353 | 65.9 | 66.0 | -106,955 |
| Vanguard Equity Income | 12,264,936 | 6.1 | | |
| Vanguard Total Stock Market Index | 57,531,224 | 28.4 | | |
| Vanguard Total Stock Market Index ETF | 25,645,534 | 12.7 | | |
| Vanguard Mid Cap Index | 5,842,373 | 2.9 | | |
| Dodge & Cox Global Stock | 8,390,623 | 4.1 | | |
| American Funds Int'l Growth & Income | 11,996,782 | 5.9 | | |
| MFS International Intrinsic Value | 11,872,881 | 5.9 | | |
| Real Estate Composite | 22,728,605 | 11.2 | 10.0 | 2,478,407 |
| Morgan Stanley Prime Property Fund | 22,728,605 | 11.2 | | |
| U.S. Fixed Income Composite | 40,861,965 | 20.2 | 23.0 | -5,713,491 |
| Vanguard Total Bond Market Index | 27,119,247 | 13.4 | | |
| Sterling Capital - Short-Term Bonds | 7,869,078 | 3.9 | | |
| Baird Core Plus Bond Fund | 5,873,641 | 2.9 | | |
| Cash Equivalents Composite | 5,367,059 | 2.7 | 1.0 | 3,342,039 |
| Govt Obligations MM Fund | 5,367,059 | 2.7 | | |

As of September 30, 2023

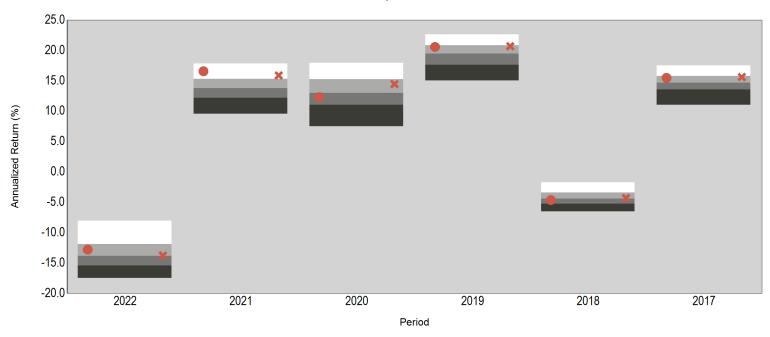
InvMetrics Public DB Net Return Comparison



| | Return (Rank) | | | | | | | | | | | |
|--|---------------|--------------|------------|--------------|--------------|--------------|------------|--------------|------------|--------------|------------|--------------|
| 5th Percentile | -1.2 | | 7.2 | | 14.6 | | 6.9 | | 6.6 | | 7.4 | |
| 25th Percentile | -2.4 | | 5.7 | | 12.1 | | 5.4 | | 5.6 | | 6.8 | |
| Median | -3.0 | | 4.7 | | 10.8 | | 4.4 | | 5.1 | | 6.3 | |
| 75th Percentile | -3.4 | | 3.8 | | 9.4 | | 3.5 | | 4.5 | | 5.8 | |
| 95th Percentile | -3.9 | | 2.6 | | 7.0 | | 2.1 | | 3.5 | | 4.8 | |
| # of Portfolios | 562 | | 556 | | 554 | | 543 | | 525 | | 441 | |
| Police Pension Total FundPolicy Index | -2.6 -2.9 | (35) (46) | 5.6 6.3 | (27) (16) | 11.7 12.3 | (34) (24) | 5.7 5.4 | (20) (26) | 5.9 6.1 | (16) (13) | 6.6 6.8 | (32) (27) |

As of September 30, 2023

InvMetrics Public DB Net Return Comparison



| | Return (Rank |) | | | | | | | | | | | |
|---------------------------|--------------|------|------|------|------|------|------|------|------|------|------|------|--|
| 5th Percentile | -8.0 | | 17.8 | | 17.9 | | 22.6 | | -1.7 | | 17.5 | | |
| 25th Percentile | -11.9 | | 15.3 | | 15.3 | | 20.8 | | -3.4 | | 15.8 | | |
| Median | -13.8 | | 13.8 | | 13.0 | | 19.5 | | -4.4 | | 14.7 | | |
| 75th Percentile | -15.4 | | 12.2 | | 11.0 | | 17.6 | | -5.2 | | 13.6 | | |
| 95th Percentile | -17.5 | | 9.6 | | 7.5 | | 15.1 | | -6.5 | | 11.1 | | |
| # of Portfolios | 539 | | 559 | | 596 | | 550 | | 496 | | 269 | | |
| Police Pension Total Fund | -12.8 | (36) | 16.6 | (13) | 12.3 | (59) | 20.6 | (31) | -4.6 | (58) | 15.5 | (34) | |
| Policy Index | -13.8 | (49) | 15.9 | (18) | 14.4 | (36) | 20.7 | (28) | -4.3 | (48) | 15.6 | (30) | |

City of Allentown Police Pension

Risk & Statistics Summary

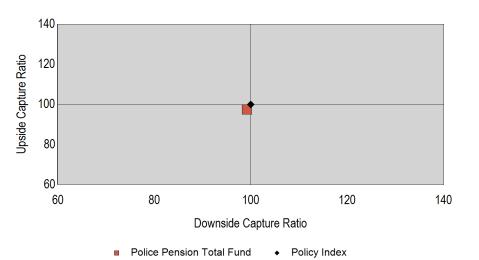
As of September 30, 2023

RISK RETURN STATISTICS

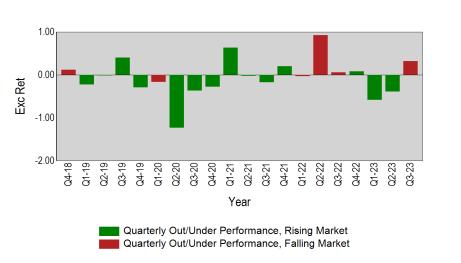
October 01, 2018 Through September 30, 2023

| | Policy Index | |
|---|--------------|-------|
| RETURN SUMMARY STATISTICS | | |
| Number of Periods | 60 | 60 |
| Maximum Return | 8.19 | 8.41 |
| Minimum Return | -9.21 | -9.19 |
| Annualized Return | 5.90 | 6.06 |
| Total Return | 33.20 | 34.17 |
| Annualized Excess Return Over Risk Free | 4.27 | 4.42 |
| Annualized Excess Return | -0.15 | 0.00 |
| RISK SUMMARY STATISTICS | | |
| Beta | 0.97 | 1.00 |
| Upside Deviation | 6.36 | 6.84 |
| Downside Deviation | 7.67 | 8.06 |
| RISK/RETURN SUMMARY STATIST | TICS | |
| Annualized Standard Deviation | 12.42 | 12.79 |
| Alpha | 0.00 | 0.00 |
| Sharpe Ratio | 0.34 | 0.35 |
| Excess Return Over Market / Risk | -0.01 | 0.00 |
| Tracking Error | 1.03 | 0.00 |
| Information Ratio | -0.15 | |
| CORRELATION STATISTICS | | |
| R-Squared | 0.99 | 1.00 |
| Correlation | 1.00 | 1.00 |

Upside Capture Ratio vs. Downside Capture Ratio 5 Years Ending September 30, 2023



Quarterly Excess Performance Police Pension Total Fund vs. Policy Index





City of Allentown Police Pension

Total Equity Composite

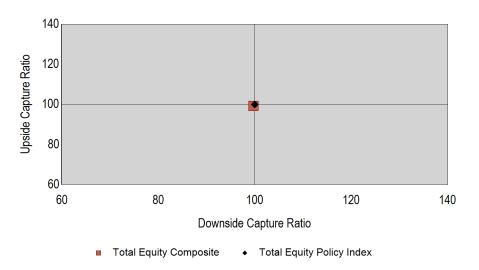
As of September 30, 2023

RISK RETURN STATISTICS

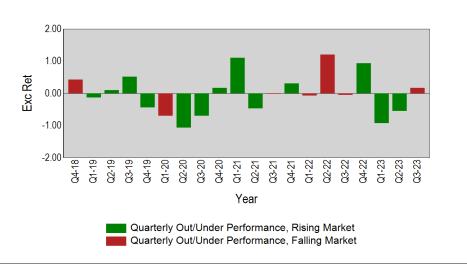
October 01, 2018 Through September 30, 2023

| | Total Equity Composite | Total Equity Policy Index |
|---|-------------------------------|----------------------------------|
| RETURN SUMMARY STATISTICS | | |
| Number of Periods | 60 | 60 |
| Maximum Return | 12.73 | 12.44 |
| Minimum Return | -14.58 | -13.90 |
| Annualized Return | 7.76 | 7.74 |
| Total Return | 45.29 | 45.19 |
| Annualized Excess Return Over Risk Free | 6.13 | 6.11 |
| Annualized Excess Return | 0.01 | 0.00 |
| RISK SUMMARY STATISTICS | | |
| Beta | 0.99 | 1.00 |
| Upside Deviation | 9.96 | 10.17 |
| Downside Deviation | 11.71 | 11.87 |
| RISK/RETURN SUMMARY STATISTICS | . | |
| Annualized Standard Deviation | 18.68 | 18.84 |
| Alpha | 0.01 | 0.00 |
| Sharpe Ratio | 0.33 | 0.32 |
| Excess Return Over Market / Risk | 0.00 | 0.00 |
| Tracking Error | 1.25 | 0.00 |
| Information Ratio | 0.01 | |
| CORRELATION STATISTICS | | |
| R-Squared | 1.00 | 1.00 |
| Correlation | 1.00 | 1.00 |

Upside Capture Ratio vs. Downside Capture Ratio 5 Years Ending September 30, 2023



Quarterly Excess Performance Total Equity Composite vs. Total Equity Policy Index





Total Equity Composite

As of September 30, 2023

Characteristics

| | Portfolio | MSCI ACWI |
|---------------------------------|-----------|-----------|
| Number of Holdings | 4,077 | 2,947 |
| Weighted Avg. Market Cap. (\$B) | 388.0 | 408.9 |
| Median Market Cap. (\$B) | 2.0 | 12.1 |
| Price To Earnings | 18.1 | 18.0 |
| Price To Book | 3.3 | 3.3 |
| Price To Sales | 1.8 | 1.8 |
| Return on Equity (%) | 20.4 | 21.1 |
| Yield (%) | 2.1 | 2.3 |

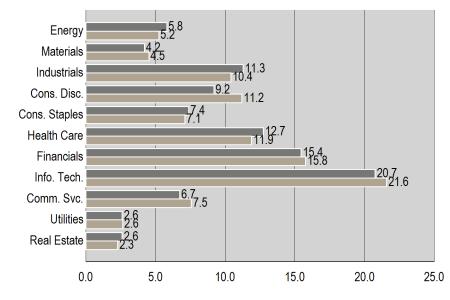
Top Holdings

| APPLE INC | 3.8% |
|------------------------|-------|
| MICROSOFT CORP | 3.7% |
| AMAZON.COM INC | 1.9% |
| NVIDIA CORPORATION | 1.5% |
| ALPHABET INC | 1.2% |
| ALPHABET INC | 1.2% |
| META PLATFORMS INC | 1.1% |
| TESLA INC | 1.0% |
| BERKSHIRE HATHAWAY INC | 0.9% |
| JPMORGAN CHASE & CO | 0.9% |
| Total | 17.3% |

Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|------------------------|--------------|------------|--------------|--------------|
| Total Equity Composite | 8.1% | 17.0% | 71.6% | 3.2% |
| MSCI ACWI | 7.2% | 17.8% | 75.1% | 0.0% |
| Weight Over/Under | 1.0% | -0.7% | -3.5% | 3.2% |
| | | | | |

Sector Allocation (%) vs MSCI ACWI



Region Allocation Summary

| Region | % of Total | % of Bench | % Diff |
|------------------------|---------------|---------------|--------|
| North America ex U.S. | 1.5% | 2.9% | -1.4% |
| United States | 77.5% | 62.3% | 15.3% |
| Europe Ex U.K. | 11.6% | 12.1% | -0.5% |
| United Kingdom | 3.3% | 3.7% | -0.4% |
| Pacific Basin Ex Japan | 0.6% | 2.7% | -2.1% |
| Japan | 2.2% | 5.5% | -3.3% |
| Emerging Markets | 2.6% | 10.6% | -7.9% |
| Other | 0.6% | 0.3% | 0.3% |
| Total | 100.0% | 100.0% | 0.0% |

U.S. Equity Composite

As of September 30, 2023

Characteristics

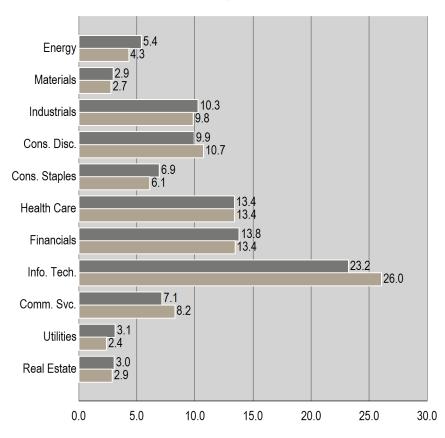
| | Portfolio | Russell 3000 |
|---------------------------------|-----------|--------------|
| Number of Holdings | 3,746 | 2,994 |
| Weighted Avg. Market Cap. (\$B) | 469.8 | 549.4 |
| Median Market Cap. (\$B) | 1.6 | 2.3 |
| Price To Earnings | 19.8 | 21.0 |
| Price To Book | 3.6 | 3.9 |
| Price To Sales | 2.1 | 2.2 |
| Return on Equity (%) | 21.5 | 22.3 |
| Yield (%) | 1.8 | 1.6 |

| Top Holdings | |
|--------------|--------------|
| | 5.0% |
| | 4.6% |
| | 2.3% |
| | 2.0% |
| | 1.5% |
| | 1.3% |
| | 1.3% |
| | 1.3% |
| | 1.2% |
| | 1.2% |
| | 21.9% |
| | Top Holdings |

Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|-----------------------|--------------|------------|--------------|--------------|
| U.S. Equity Composite | 3.0% | 24.5% | 70.0% | 2.6% |
| Russell 3000 | 5.6% | 21.1% | 73.3% | 0.0% |
| Weight Over/Under | -2.6% | 3.3% | -3.3% | 2.6% |

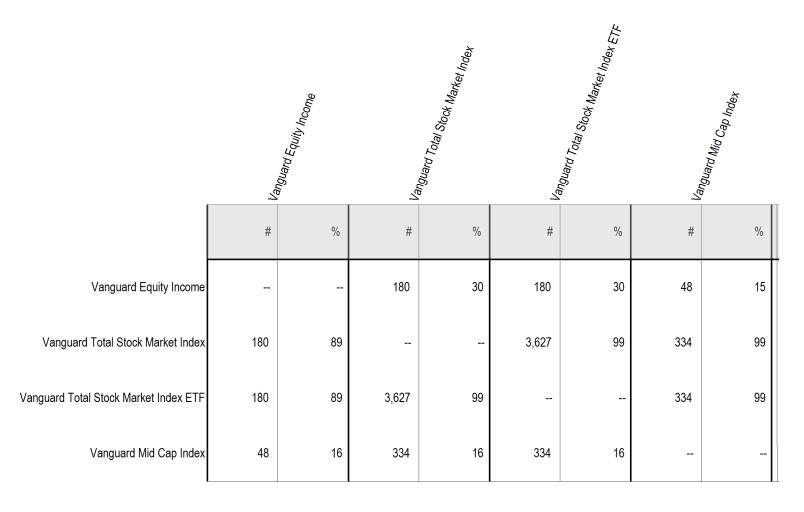
Sector Allocation (%) vs Russell 3000





As of September 30, 2023

Common Holdings Matrix



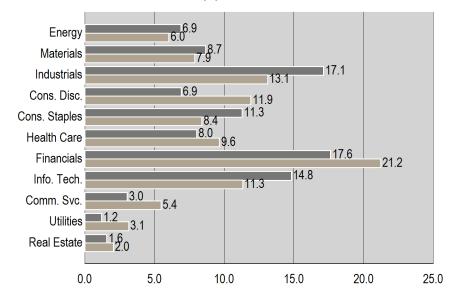
Characteristics

| | o i i di dotto i i oti o o | | |
|---------------------------------|----------------------------|-----------|---------------------|
| | | Portfolio | MSCI ACWI ex USA |
| Number of Holdings | | 325 | 2,320 |
| Weighted Avg. Market Cap. (\$B) | | 85.0 | 85.0 |
| Median Market Cap. (\$B) | | 24.6 | 9.1 |
| Price To Earnings | | 14.4 | 13.5 |
| Price To Book | | 2.7 | 2.4 |
| Price To Sales | | 1.6 | 1.1 |
| Return on Equity (%) | | 18.0 | 15.1 |
| Yield (%) | | 3.2 | 3.4 |
| | Top Holdings | | |
| TOTALENERGIES SE | | | 2.8% |
| SCHNEIDER ELECTRIC SA | | | 1.8% |
| ASTRAZENECA PLC | | | 1.6% |
| SAMSUNG ELECTRONICS CO LTD | | | 1.6% |
| FRANCO-NEVADA CORP | | | 1.6% |
| CADENCE DESIGN SYSTEMS INC | | | 1.5% |
| NESTLE SA, CHAM UND VEVEY | | | 1.5% |
| NOVO NORDISK A/S | | | 1.4% |
| ASML HOLDING NV | | | 1.4% |
| LEGRAND | | | 1.4% |
| Total | | | 16.6% |
| | | | |

Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|---------------------------|--------------|------------|--------------|--------------|
| Non-U.S. Equity Composite | 12.6% | 27.5% | 53.8% | 6.1% |
| MSCI ACWI ex USA | 16.1% | 27.3% | 56.6% | 0.0% |
| Weight Over/Under | -3.5% | 0.1% | -2.8% | 6.1% |
| | | | | |

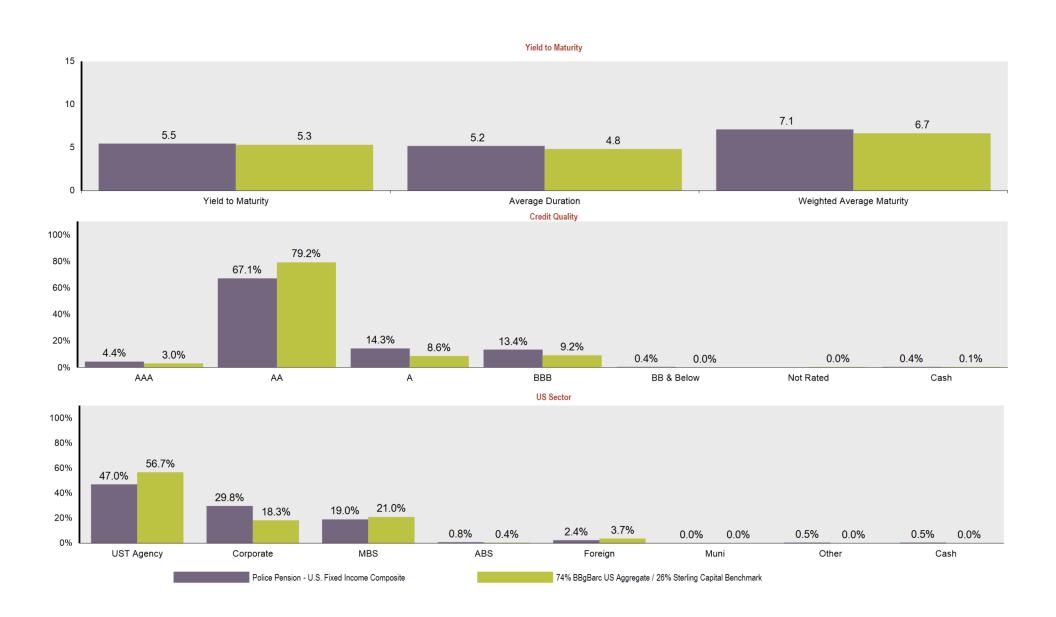
Sector Allocation (%) vs MSCI ACWI ex USA



Region Allocation Summary

| Region | % of Total | % of Bench | % Diff |
|------------------------|---------------|---------------|--------|
| North America ex U.S. | 4.7% | 7.6% | -2.9% |
| United States | 6.7% | 0.0% | 6.7% |
| Europe Ex U.K. | 48.5% | 32.0% | 16.5% |
| United Kingdom | 11.5% | 9.8% | 1.7% |
| Pacific Basin Ex Japan | 3.3% | 7.3% | -4.0% |
| Japan | 11.8% | 14.7% | -2.9% |
| Emerging Markets | 11.6% | 28.0% | -16.3% |
| Other | 1.9% | 0.7% | 1.2% |
| Total | 100.0% | 100.0% | 0.0% |

Common Holdings Matrix American Funds Int'l Growth & Income MFS International Intrinsic Value # American Funds Int'l Growth & Income 29 34 MFS International Intrinsic Value 29 16



City of Allentown Police Pension

Performance Summary (Net)

| | 3 Mo | YTD | 1 Yr | 3 Yrs | 5 Yrs | Market Value | % of Portfolio | Policy % | Inception | Inception Date |
|--|------|------|-------|-------|-------|--------------|-------------------|----------|-----------|-------------------|
| Police Pension Total Fund | -2.6 | 5.6 | 11.7 | 5.7 | 5.9 | 202,501,982 | 100.0 | 100.0 | 6.4 | Apr-05 |
| Policy Index | -2.9 | 6.3 | 12.3 | 5.4 | 6.1 | | | | 6.6 | Apr-05 |
| InvMetrics Public DB Net Rank | 35 | 27 | 34 | 20 | 16 | | | | 31 | Apr-05 |
| Total Equity Composite | -3.2 | 9.6 | 20.1 | 8.9 | 7.8 | 133,544,353 | 65.9 | 66.0 | 11.2 | Jan-12 |
| Total Equity Policy Index | -3.4 | 10.9 | 20.6 | 8.2 | 7.7 | | | | 11.1 | Jan-12 |
| Vanguard Equity Income | -2.0 | -1.1 | 12.7 | 12.0 | 7.8 | 12,264,936 | 6.1 | | 10.7 | Aug-12 |
| Russell 1000 Value | -3.2 | 1.8 | 14.4 | 11.0 | 6.2 | | | | 10.0 | Aug-12 |
| Large Value MStar MF Rank | 40 | 83 | 74 | 54 | 25 | | | | 29 | Aug-12 |
| Vanguard Total Stock Market Index | -3.3 | 12.3 | 20.4 | 9.2 | 9.1 | 57,531,224 | 28.4 | | 10.1 | Nov-14 |
| CRSP US Total Market TR USD | -3.3 | 12.3 | 20.4 | 9.3 | 9.1 | | | | 10.1 | Nov-14 |
| All Cap MStar MF Rank | 41 | 25 | 28 | 51 | 23 | | | | 24 | Nov-14 |
| Vanguard Total Stock Market Index ETF | -3.2 | 12.4 | 20.3 | 9.3 | 9.0 | 25,645,534 | 12.7 | | 10.5 | Apr-14 |
| CRSP US Total Market TR USD | -3.3 | 12.3 | 20.4 | 9.3 | 9.1 | | | | 10.5 | Apr-14 |
| All Cap MStar MF Rank | 39 | 25 | 29 | 51 | 24 | | | | 23 | Apr-14 |
| Vanguard Mid Cap Index | -5.1 | 3.3 | 12.6 | | | 5,842,373 | 2.9 | | -3.4 | May-21 |
| CRSP US Mid Cap TR USD | -5.1 | 3.3 | 12.6 | | | | | | -3.4 | May-21 |
| Mid-Cap Blend MStar MF Rank | 78 | 64 | 64 | | | | | | 56 | May-21 |
| Dodge & Cox Global Stock | 0.6 | 11.6 | 26.4 | 16.3 | 7.8 | 8,390,623 | 4.1 | | 6.8 | Aug-14 |
| MSCI ACWI Value NR USD | -1.8 | 2.4 | 17.0 | 9.7 | 4.0 | | | | 4.2 | Aug-14 |
| Global Large Stock Value Mstar MF Rank | 1 | 10 | 16 | 3 | 3 | | | | 9 | Aug-14 |
| American Funds Int'l Growth & Income | -4.1 | 5.7 | 24.5 | 5.7 | 3.8 | 11,996,782 | 5.9 | | 2.9 | Aug-14 |
| MSCI ACWI ex USA | -3.8 | 5.3 | 20.4 | 3.7 | 2.6 | | | | 2.6 | Aug-14 |
| Foreign Large Blend MStar MF Rank | 35 | 55 | 40 | 31 | 21 | | | | 69 | Aug-14 |
| MFS International Intrinsic Value | -4.7 | 7.2 | 20.5 | 0.2 | 4.4 | 11,872,881 | 5.9 | | 6.4 | Aug-14 |
| MSCI EAFE | -4.1 | 7.1 | 25.6 | 5.8 | 3.2 | | | | 3.3 | Aug-14 |
| Foreign Large Blend MStar MF Rank | 54 | 25 | 77 | 97 | 11 | | | | 3 | Aug-14 |
| Real Estate Composite | | | | | | 22,728,605 | 11.2 | 10.0 | | |
| Morgan Stanley Prime Property Fund | -0.2 | -3.7 | -7.2 | 8.0 | 6.4 | 22,728,605 | 11.2 | | 6.4 | Oct-18 |
| NFI-ODCE | -2.1 | -8.1 | -12.9 | 6.2 | 4.7 | | | | 4.7 | Oct-18 |
| InvMetrics Public DB Real Estate Priv Net Rank | 13 | 13 | 11 | 9 | 6 | | | | 6 | Oct-18 |

City of Allentown Police Pension

Performance Summary (Net)

| | 3 Mo | YTD | 1 Yr | 3 Yrs | 5 Yrs | Market Value | % of Portfolio | Policy % | Inception | Inception Date |
|---|------|------|------|-------|-------|--------------|-------------------|----------|-----------|-------------------|
| U.S. Fixed Income Composite | -2.2 | -0.1 | 1.5 | -4.0 | 0.3 | 40,861,965 | 20.2 | 23.0 | 1.1 | Jan-12 |
| Fixed Income Policy Index | -2.2 | -0.3 | 1.3 | -3.9 | 0.2 | | | | 1.0 | Jan-12 |
| Vanguard Total Bond Market Index | -3.1 | -0.9 | 0.7 | -5.2 | 0.1 | 27,119,247 | 13.4 | | 1.1 | Dec-11 |
| Bloomberg US Aggregate TR | -3.2 | -1.2 | 0.6 | -5.2 | 0.1 | | | | 1.1 | Dec-11 |
| Intermediate Core Bond MStar MF Rank | 57 | 59 | 57 | 65 | 56 | | | | 77 | Dec-11 |
| Sterling Capital - Short-Term Bonds | 1.2 | 2.9 | 3.7 | 0.2 | 1.4 | 7,869,078 | 3.9 | | 1.2 | Jun-14 |
| Sterling Capital Policy Index | 0.9 | 2.3 | 3.1 | 0.0 | 1.4 | | | | 1.1 | Jun-14 |
| Baird Core Plus Bond Fund | -2.7 | -0.2 | 2.3 | | | 5,873,641 | 2.9 | | -7.4 | Nov-21 |
| Bloomberg US Universal TR | -2.9 | -0.6 | 1.6 | | | | | | -7.7 | Nov-21 |
| Intermediate Core Plus Bond MStar MF Rank | 31 | 31 | 19 | | | | | | 26 | Nov-21 |
| Cash Equivalents Composite | | | | | | 5,367,059 | 2.7 | 1.0 | | |
| Govt Obligations MM Fund | | | | | | 5,367,059 | 2.7 | | | |

Policy Index History

As of September 30, 2023

Policy Index History

| Police Pension To | otal Fund | |
|-------------------|------------|--|
| 1/1/2020 | Present | 52% Russell 3000 / 14% MSCI ACWI ex USA / 17% Bloomberg US Aggregate TR / 6% Sterling Capital Policy Index / 1% ICE BofA 91 Days T-Bills TR / 10% NFI-ODCE |
| 10/1/2019 | 12/31/2019 | 52% Russell 3000 / 14% MSCI ACWI ex USA / 19% Bloomberg US Aggregate TR / 6.5% Sterling Capital Policy Index / 1% ICE BofA 91 Days T-Bills TR / 7.5% NFI-ODCE |
| 9/1/2019 | 9/30/2019 | 52% Russell 3000 / 14% MSCI ACWI ex USA / 20.5% Bloomberg US Aggregate TR / 7.5% Sterling Capital Policy Index / 1% ICE BofA 91 Days T-Bills TR / 5% NFI-ODCE |
| 10/1/2018 | 8/31/2019 | 49% Russell 3000 / 17% MSCI ACWI ex USA / 14% Bloomberg US Aggregate TR / 14% Bloomberg US Govt 1-5 Yr TR / 1% ICE BofA 91 Days T-Bills TR / 5% NFI-ODCE |
| 7/1/2015 | 9/30/2018 | 51% Russell 3000 / 17% MSCI ACWI ex USA / 13% Bloomberg US Aggregate TR / 17% Bloomberg US Govt 1-5 Yr TR / 2% ICE BofA 91 Days T-Bills TR |
| 6/1/2015 | 6/30/2015 | 50% Russell 3000 / 16.0% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 17% Bloomberg US Govt 1-5 Yr TR / 6% ICE BofA 91 Days T-Bills TR |
| 5/1/2015 | 5/31/2015 | 48.5% Russell 3000 / 15.5% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 17% Bloomberg US Govt 1-5 Yr TR / 8% ICE BofA 91 Days T-Bills TR |
| 4/1/2015 | 4/30/2015 | 47% Russell 3000 / 15% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 17% Bloomberg US Govt 1-5 Yr TR / 10% ICE BofA 91 Days T-Bills TR |
| 3/1/2015 | 3/31/2015 | 45.50% Russell 3000 / 14.5% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 17% Bloomberg US Govt 1-5 Yr TR / 12% ICE BofA 91 Days T-Bills TR |
| 2/1/2015 | 2/28/2015 | 44% Russell 3000 / 14% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 17% Bloomberg US Govt 1-5 Yr TR / 14% ICE BofA 91 Days T-Bills TR |
| 1/1/2015 | 1/31/2015 | 42.5% Russell 3000 / 13.5% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 17% Bloomberg US Govt 1-5 Yr TR / 16% ICE BofA 91 Days T-Bills TR |
| 12/1/2014 | 12/31/2014 | 41% Russell 3000 / 13% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 17% Bloomberg US Govt 1-5 Yr TR / 18% ICE BofA 91 Days T-Bills TR |
| 11/1/2014 | 11/30/2014 | 39.5% Russell 3000 / 12.5% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 17% Bloomberg US Govt 1-5 Yr TR / 20% ICE BofA 91 Days T-Bills TR |
| 10/1/2014 | 10/31/2014 | 38% Russell 3000 / 12% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 17% Bloomberg US Govt 1-5 Yr TR / 22% ICE BofA 91 Days T-Bills TR |
| 9/1/2014 | 9/30/2014 | 36.5% Russell 3000 / 11.5% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 17% Bloomberg US Govt 1-5 Yr TR / 24% ICE BofA 91 Days T-Bills TR |
| 8/1/2014 | 8/31/2014 | 35% Russell 3000 / 11% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 17% Bloomberg US Govt 1-5 Yr TR / 26% ICE BofA 91 Days T-Bills TR |
| 7/1/2014 | 7/31/2014 | 33.50% Russell 3000 / 10.5% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 17% Bloomberg US Govt 1-5 Yr TR / 28% ICE BofA 91 Days T-Bills TR |
| 6/1/2014 | 6/30/2014 | 32% Russell 3000 / 10% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 47% ICE BofA 91 Days T-Bills TR |
| 5/1/2014 | 5/31/2014 | 25.5% Russell 3000 / 8.5% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 55% ICE BofA 91 Days T-Bills TR |
| 4/1/2014 | 4/30/2014 | 24% Russell 3000 / 8% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 57% ICE BofA 91 Days T-Bills TR |
| 3/1/2014 | 3/31/2014 | 22.82% Russell 3000 / 7.89% MSCI ACWI ex USA / 12.29% Bloomberg US Aggregate TR / 57% ICE BofA 91 Days T-Bills TR |
| 2/1/2014 | 2/28/2014 | 22.29% Russell 3000 / 7.71% MSCI ACWI ex USA / 12% Bloomberg US Aggregate TR / 58% ICE BofA 91 Days T-Bills TR |
| 1/1/2014 | 1/31/2014 | 22.29% Russell 3000 / 7.71% MSCI ACWI ex USA / 12% Bloomberg US Aggregate TR / 58% ICE BofA 91 Days T-Bills TR |
| 1/1/2012 | 12/31/2013 | 52% Russell 3000 / 28% Bloomberg US Aggregate TR / 18% MSCI EAFE / 2% 91 Day T-Bills |
| 1/1/2007 | 12/31/2011 | 51% Russell 3000 / 32% Bloomberg US Govt/Credit Int TR / 12% MSCI EAFE / 5% FTSE NAREIT All Equity REIT |
| 4/1/2005 | 12/31/2006 | 18% FT Wilshire 5000 Full Cap / 18% S&P 500 / 8% Russell 2000 / 20% Bloomberg US Aggregate TR / 20% Bloomberg US Govt/Credit Int TR / 10% MSCI EAFE / 6% FTSE NAREIT All Equity REIT |

City of Allentown Police Pension

Policy Index History

| Police Pension | (excl_LCP) | |
|----------------------|-------------------------|---|
| 10/1/2018 | Present | 49% Russell 3000 / 17% MSCI ACWI ex USA / 14% Bloomberg US Aggregate TR / 14% Bloomberg US Govt 1-5 Yr TR / 1% ICE BofA 91 Days T-Bills TR / 5% NFI-ODCE |
| 8/1/2016 7/1/2014 | 9/30/2018 7/31/2016 | 51% Russell 3000 / 17% MSCI ACWI ex USA / 14% Bloomberg US Aggregate TR / 17% Bloomberg US Govt 1-5 Yr TR / 1% ICE BofA 91 Days T-Bills TR 51% Russell 3000 / 17% MSCI ACWI ex USA / 13% Bloomberg US Aggregate TR / 17% Bloomberg US Govt 1-5 Yr TR / 2% ICE BofA 91 Days T-Bills TR |
| 1/1/2012 | 6/30/2014 | 52% Russell 3000 / 28% Bloomberg US Aggregate TR / 18% MSCI EAFE / 2% 91 Day T-Bills |
| 1/1/2007 | 12/31/2011 | 51% Russell 3000 / 32% Bloomberg US Govt/Credit Int TR / 12% MSCI EAFE / 5% FTSE NAREIT All Equity REIT |
| 4/1/2005 | 12/31/2006 | 18% FT Wilshire 5000 Full Cap / 18% S&P 500 / 8% Russell 2000 / 20% Bloomberg US Aggregate TR / 20% Bloomberg US Govt/Credit Int TR / 10% MSCI EAFE / 6% FTSE NAREIT All Equity REIT |
| Total Equity (| Composite | |
| 9/1/2019 | Present | 79% Russell 3000 / 21% MSCI ACWI ex USA |
| 10/1/2018 | 8/31/2019 | 74% Russell 3000 / 26% MSCI ACWI ex USA |
| 7/1/2014 | 9/30/2018 | 75% Russell 3000 / 25% MSCI ACWI ex USA |
| 1/1/2012 | 6/30/2014 | 74% Russell 3000 / 26% MSCI EAFE |
| U.S. Equity | Composite | |
| 1/1/2012 | Present | Russell 3000 |
| Global Equ | ity Composite | |
| 1/1/2012 | Present | MSCI ACWI |
| Non-U.S. E | Equity Composite | |
| 6/1/2014 | Present | MSCI ACWI ex USA |
| 1/1/2012 | 5/31/2014 | MSCI EAFE |
| Real Estate (| • | |
| 10/1/2018 | Present | NFI-ODCE |
| | come Composite | |
| 9/1/2019 | Present | 74% Bloomberg US Aggregate TR / 26% Sterling Capital Policy Index |
| 6/1/2014 | 8/31/2019 | 43% Bloomberg US Aggregate TR / 57% Bloomberg US Govt 1-5 Yr TR |
| 1/1/2012 | 5/31/2014 | 100% Bloomberg US Aggregate TR |
| Cash Equival | ents Composite | |
| 1/1/2012 | Present | ICE BofA 91 Days T-Bills TR |



City of Allentown Police Pension

Fee Summary

| Account | Fee Schedule | % of Portfolio | Estimated Annual Fee (\$) | Estimated Annual Fee (%) |
|---------------------------------------|-----------------|----------------|---------------------------|--------------------------|
| Vanguard Equity Income | 0.19% of Assets | 6.1% | \$23,303 | 0.19% |
| Vanguard Total Stock Market Index | 0.03% of Assets | 28.4% | \$17,259 | 0.03% |
| Vanguard Total Stock Market Index ETF | 0.03% of Assets | 12.7% | \$7,694 | 0.03% |
| Vanguard Mid Cap Index | 0.04% of Assets | 2.9% | \$2,337 | 0.04% |
| Dodge & Cox Global Stock | 0.62% of Assets | 4.1% | \$52,022 | 0.62% |
| American Funds Int'l Growth & Income | 0.54% of Assets | 5.9% | \$64,783 | 0.54% |
| MFS International Intrinsic Value | 0.61% of Assets | 5.9% | \$72,425 | 0.61% |
| Morgan Stanley Prime Property Fund | 0.84% of Assets | 11.2% | \$190,920 | 0.84% |
| Vanguard Total Bond Market Index | 0.03% of Assets | 13.4% | \$8,407 | 0.03% |
| Sterling Capital - Short-Term Bonds | 0.08% of Assets | 3.9% | \$6,295 | 0.08% |
| Baird Core Plus Bond Fund | 0.30% of Assets | 2.9% | \$17,621 | 0.30% |
| Govt Obligations MM Fund | 0.30% of Assets | 2.7% | \$16,101 | 0.30% |
| Investment Management Fee | | 100.0% | \$479,167 | 0.24% |



Firemen Pension

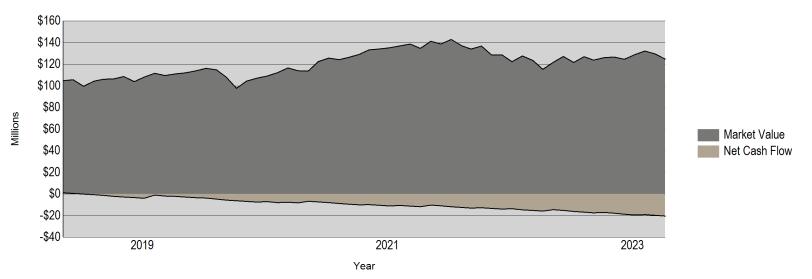
Portfolio Overview



Market Value Summary

As of September 30, 2023

Market Value History

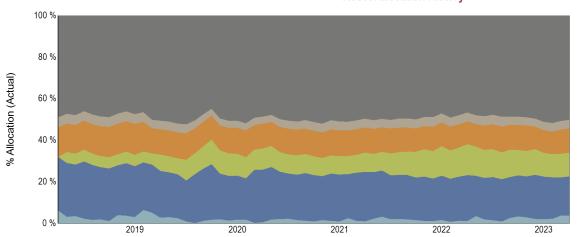


Cash Flow Summary by Manager From July 01, 2023 to September 30, 2023

| | Beginning Market Value | Net Cash Flow | Net Investment Change | Ending Market Value |
|---------------------------------------|---------------------------|---------------|--------------------------|------------------------|
| Vanguard Equity Income | \$7,858,839 | \$0 | -\$156,269 | \$7,702,570 |
| Vanguard Total Stock Market Index | \$38,155,204 | -\$1,200,000 | -\$1,235,249 | \$35,719,956 |
| Vanguard Total Stock Market Index ETF | \$15,887,254 | -\$57,583 | -\$510,025 | \$15,319,646 |
| Vanguard Mid Cap Index | \$3,905,115 | \$0 | -\$197,906 | \$3,707,209 |
| Dodge & Cox Global Stock | \$5,186,031 | \$0 | \$29,656 | \$5,215,686 |
| American Funds Int'l Growth & Income | \$7,016,015 | \$600,000 | -\$296,583 | \$7,319,432 |
| MFS International Intrinsic Value | \$6,959,485 | \$600,000 | -\$339,229 | \$7,220,256 |
| Morgan Stanley Prime Property Fund | \$14,718,574 | -\$402,190 | -\$32,157 | \$14,284,228 |
| Vanguard Total Bond Market Index | \$12,391,973 | \$0 | -\$381,999 | \$12,009,974 |
| Sterling Capital - Short-Term Bonds | \$10,204,433 | -\$2,637,072 | \$112,919 | \$7,680,280 |
| Baird Core Plus Bond Fund | \$3,779,610 | \$0 | -\$103,146 | \$3,676,464 |
| Govt Obligations MM Fund | \$2,748,840 | \$2,146,696 | \$53,042 | \$4,948,577 |
| Total | \$128,811,372 | -\$950,150 | -\$3,056,946 | \$124,804,277 |

Asset Allocation Summary





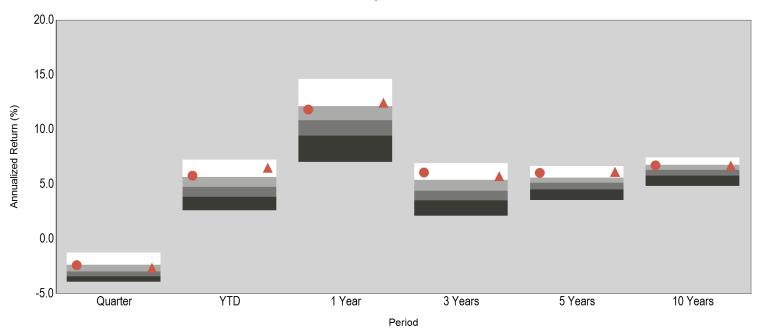


| | Market Value | % of Portfolio | Policy % | Policy Difference |
|---------------------------------------|--------------|----------------|----------|-------------------|
| Firemen Pension Total Fund | 124,804,277 | 100.0 | 100.0 | 0 |
| Total Equity Composite | 82,204,755 | 65.9 | 66.0 | -166,068 |
| Vanguard Equity Income | 7,702,570 | 6.2 | | |
| Vanguard Total Stock Market Index | 35,719,956 | 28.6 | | |
| Vanguard Total Stock Market Index ETF | 15,319,646 | 12.3 | | |
| Vanguard Mid Cap Index | 3,707,209 | 3.0 | | |
| Dodge & Cox Global Stock | 5,215,686 | 4.2 | | |
| American Funds Int'l Growth & Income | 7,319,432 | 5.9 | | |
| MFS International Intrinsic Value | 7,220,256 | 5.8 | | |
| Real Estate Composite | 14,284,228 | 11.4 | 10.0 | 1,803,800 |
| Morgan Stanley Prime Property Fund | 14,284,228 | 11.4 | | |
| U.S. Fixed Income Composite | 23,366,718 | 18.7 | 23.0 | -5,338,266 |
| Vanguard Total Bond Market Index | 12,009,974 | 9.6 | | |
| Sterling Capital - Short-Term Bonds | 7,680,280 | 6.2 | | |
| Baird Core Plus Bond Fund | 3,676,464 | 2.9 | | |
| Cash Equivalents Composite | 4,948,577 | 4.0 | 1.0 | 3,700,534 |
| Govt Obligations MM Fund | 4,948,577 | 4.0 | | |

Peer Ranking (Net)

As of September 30, 2023

InvMetrics Public DB Net Return Comparison



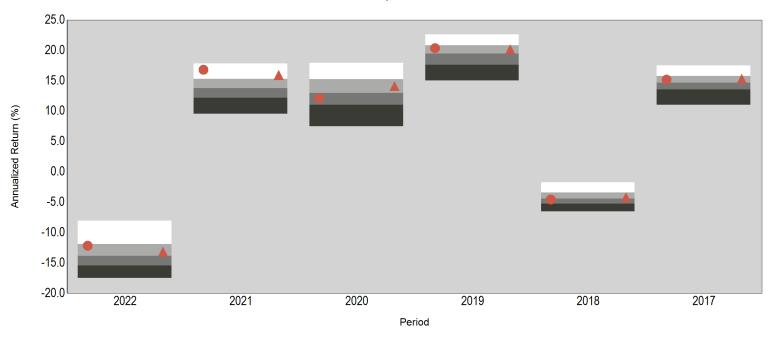
| | Return (Rank) | | | | | |
|--|---------------------------------------|----------|-----------|----------|----------|----------|
| 5th Percentile | -1.2 | 7.2 | 14.6 | 6.9 | 6.6 | 7.4 |
| 25th Percentile | -2.4 | 5.7 | 12.1 | 5.4 | 5.6 | 6.8 |
| Median | -3.0 | 4.7 | 10.8 | 4.4 | 5.1 | 6.3 |
| 75th Percentile | -3.4 | 3.8 | 9.4 | 3.5 | 4.5 | 5.8 |
| 95th Percentile | -3.9 | 2.6 | 7.0 | 2.1 | 3.5 | 4.8 |
| # of Portfolios | 562 | 556 | 554 | 543 | 525 | 441 |
| Firemen Pension Total Fund | · · · · · · · · · · · · · · · · · · · | (27) 5.8 | (23) 11.8 | (32) 6.1 | (15) 6.0 | (13) 6.7 |
| Policy Index | -2.6 (| (37) 6.5 | (13) 12.4 | (21) 5.7 | (18) 6.1 | (11) 6.7 |

(29) (29)

Peer Ranking (Net)

As of September 30, 2023

InvMetrics Public DB Net Return Comparison



| | Return (Rank) |) | | | | | | | | | | |
|---|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 5th Percentile | -8.0 | | 17.8 | | 17.9 | | 22.6 | | -1.7 | | 17.5 | |
| 25th Percentile | -11.9 | | 15.3 | | 15.3 | | 20.8 | | -3.4 | | 15.8 | |
| Median | -13.8 | | 13.8 | | 13.0 | | 19.5 | | -4.4 | | 14.7 | |
| 75th Percentile | -15.4 | | 12.2 | | 11.0 | | 17.6 | | -5.2 | | 13.6 | |
| 95th Percentile | -17.5 | | 9.6 | | 7.5 | | 15.1 | | -6.5 | | 11.1 | |
| # of Portfolios | 539 | | 559 | | 596 | | 550 | | 496 | | 269 | |
| Firemen Pension Total FundPolicy Index | -12.2 -13.1 | (28) (39) | 16.8 16.0 | (11) (18) | 12.1 14.1 | (61) (39) | 20.4 20.2 | (35) (38) | -4.5 -4.2 | (55) (44) | 15.2 15.3 | (37) (36) |

Risk & Statistics Summary

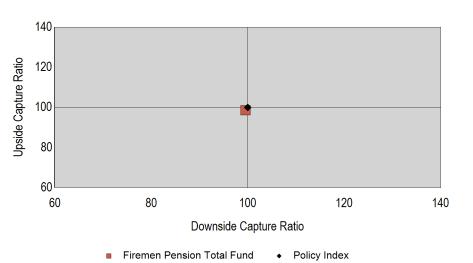
As of September 30, 2023

RISK RETURN STATISTICS

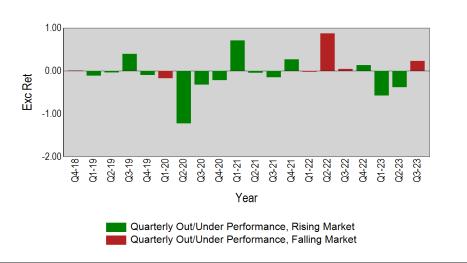
October 01, 2018 Through September 30, 2023

| | Firemen Pension Total Fund | Policy Index |
|---|-------------------------------|--------------|
| RETURN SUMMARY STATISTICS | | |
| Number of Periods | 60 | 60 |
| Maximum Return | 8.15 | 8.36 |
| Minimum Return | -9.13 | -9.10 |
| Annualized Return | 6.04 | 6.13 |
| Total Return | 34.05 | 34.64 |
| Annualized Excess Return Over Risk Free | 4.41 | 4.50 |
| Annualized Excess Return | -0.09 | 0.00 |
| RISK SUMMARY STATISTICS | | |
| Beta | 0.97 | 1.00 |
| Upside Deviation | 6.30 | 6.75 |
| Downside Deviation | 7.59 | 7.93 |
| RISK/RETURN SUMMARY STATISTICS | , | |
| Annualized Standard Deviation | 12.34 | 12.63 |
| Alpha | 0.00 | 0.00 |
| Sharpe Ratio | 0.36 | 0.36 |
| Excess Return Over Market / Risk | -0.01 | 0.00 |
| Tracking Error | 1.03 | 0.00 |
| Information Ratio | -0.09 | |
| CORRELATION STATISTICS | | |
| R-Squared | 0.99 | 1.00 |
| Correlation | 1.00 | 1.00 |

Upside Capture Ratio vs. Downside Capture Ratio 5 Years Ending September 30, 2023



Quarterly Excess Performance Firemen Pension Total Fund vs. Policy Index





Total Equity Composite

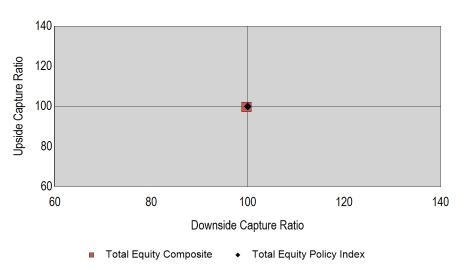
As of September 30, 2023

RISK RETURN STATISTICS

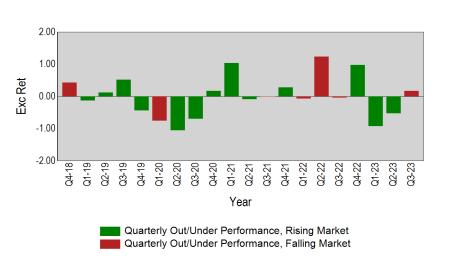
October 01, 2018 Through September 30, 2023

| | Total Equity Composite | Total Equity Policy Index |
|---|------------------------|---------------------------|
| RETURN SUMMARY STATISTICS | | |
| Number of Periods | 60 | 60 |
| Maximum Return | 12.73 | 12.44 |
| Minimum Return | -14.58 | -13.90 |
| Annualized Return | 7.83 | 7.74 |
| Total Return | 45.78 | 45.19 |
| Annualized Excess Return Over Risk Free | 6.20 | 6.11 |
| Annualized Excess Return | 0.09 | 0.00 |
| RISK SUMMARY STATISTICS | | |
| Beta | 0.99 | 1.00 |
| Upside Deviation | 9.93 | 10.17 |
| Downside Deviation | 11.74 | 11.87 |
| RISK/RETURN SUMMARY STATISTIC | S | |
| Annualized Standard Deviation | 18.69 | 18.84 |
| Alpha | 0.01 | 0.00 |
| Sharpe Ratio | 0.33 | 0.32 |
| Excess Return Over Market / Risk | 0.00 | 0.00 |
| Tracking Error | 1.26 | 0.00 |
| Information Ratio | 0.07 | |
| CORRELATION STATISTICS | | |
| R-Squared | 1.00 | 1.00 |
| Correlation | 1.00 | 1.00 |

Upside Capture Ratio vs. Downside Capture Ratio 5 Years Ending September 30, 2023



Quarterly Excess Performance Total Equity Composite vs. Total Equity Policy Index



Total Equity Composite

As of September 30, 2023

Characteristics

| | Portfolio | MSCI ACWI |
|---------------------------------|-----------|-----------|
| Number of Holdings | 4,077 | 2,947 |
| Weighted Avg. Market Cap. (\$B) | 387.2 | 408.9 |
| Median Market Cap. (\$B) | 2.0 | 12.1 |
| Price To Earnings | 18.1 | 18.0 |
| Price To Book | 3.3 | 3.3 |
| Price To Sales | 1.8 | 1.8 |
| Return on Equity (%) | 20.4 | 21.1 |
| Yield (%) | 2.1 | 2.3 |
| | | |

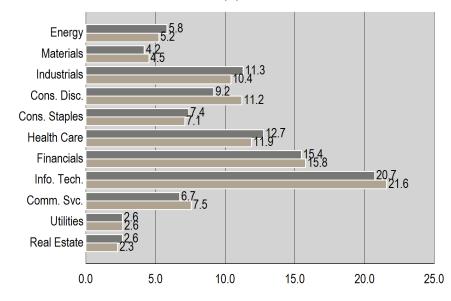
Top Holdings

| APPLE INC | 3.8% |
|------------------------|-------|
| MICROSOFT CORP | 3.7% |
| AMAZON.COM INC | 1.9% |
| NVIDIA CORPORATION | 1.5% |
| ALPHABET INC | 1.2% |
| ALPHABET INC | 1.2% |
| META PLATFORMS INC | 1.1% |
| TESLA INC | 1.0% |
| BERKSHIRE HATHAWAY INC | 0.9% |
| JPMORGAN CHASE & CO | 0.9% |
| Total | 17.2% |

Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|------------------------|--------------|------------|--------------|--------------|
| Total Equity Composite | 8.1% | 17.1% | 71.6% | 3.2% |
| MSCI ACWI | 7.2% | 17.8% | 75.1% | 0.0% |
| Weight Over/Under | 0.9% | -0.7% | -3.5% | 3.2% |
| | | | | |

Sector Allocation (%) vs MSCI ACWI



Region Allocation Summary

| Region | % of Total | % of Bench | % Diff |
|------------------------|---------------|---------------|--------|
| North America ex U.S. | 1.5% | 2.9% | -1.4% |
| United States | 77.6% | 62.3% | 15.4% |
| Europe Ex U.K. | 11.5% | 12.1% | -0.5% |
| United Kingdom | 3.3% | 3.7% | -0.4% |
| Pacific Basin Ex Japan | 0.6% | 2.7% | -2.1% |
| Japan | 2.2% | 5.5% | -3.3% |
| Emerging Markets | 2.6% | 10.6% | -7.9% |
| Other | 0.6% | 0.3% | 0.3% |
| Total | 100.0% | 100.0% | 0.0% |

U.S. Equity Composite

As of September 30, 2023

Characteristics

| | Portfolio | Russell 3000 |
|---------------------------------|-----------|--------------|
| Number of Holdings | 3,746 | 2,994 |
| Weighted Avg. Market Cap. (\$B) | 468.0 | 549.4 |
| Median Market Cap. (\$B) | 1.6 | 2.3 |
| Price To Earnings | 19.7 | 21.0 |
| Price To Book | 3.6 | 3.9 |
| Price To Sales | 2.1 | 2.2 |
| Return on Equity (%) | 21.5 | 22.3 |
| Yield (%) | 1.8 | 1.6 |

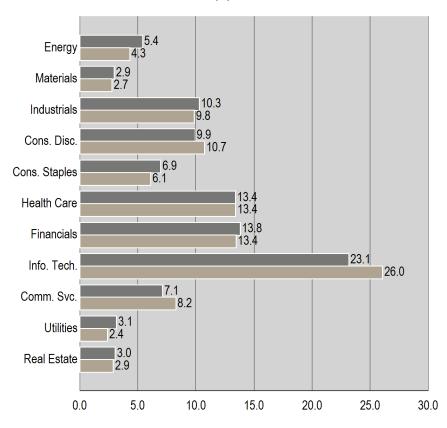
Top Holdings

| APPLE INC | 5.0% |
|------------------------|-------|
| MICROSOFT CORP | 4.6% |
| AMAZON.COM INC | 2.3% |
| NVIDIA CORPORATION | 2.0% |
| ALPHABET INC | 1.5% |
| TESLA INC | 1.3% |
| META PLATFORMS INC | 1.3% |
| ALPHABET INC | 1.3% |
| BERKSHIRE HATHAWAY INC | 1.2% |
| JPMORGAN CHASE & CO | 1.2% |
| Total | 21.8% |
| | |

Market Capitalization

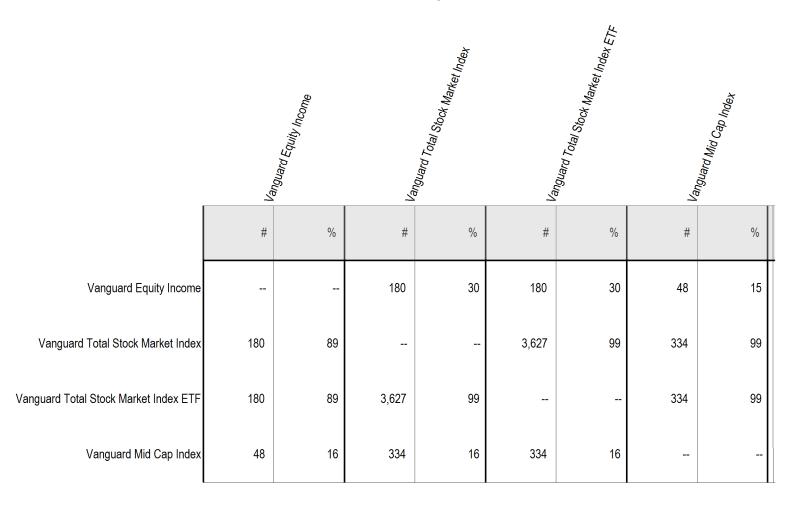
| | Small Cap | Mid Cap | Large Cap | Unclassified |
|-----------------------|--------------|------------|--------------|--------------|
| U.S. Equity Composite | 3.0% | 24.6% | 69.9% | 2.6% |
| Russell 3000 | 5.6% | 21.1% | 73.3% | 0.0% |
| Weight Over/Under | -2.6% | 3.4% | -3.4% | 2.6% |

Sector Allocation (%) vs Russell 3000





Common Holdings Matrix



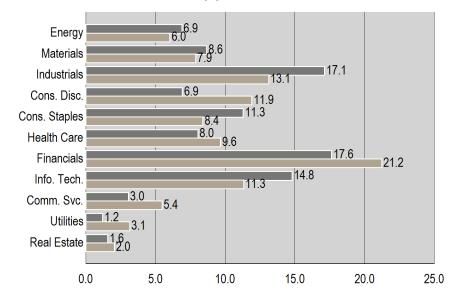
Characteristics

| | o i i di dotto i i oti o o | | |
|---------------------------------|----------------------------|-----------|---------------------|
| | | Portfolio | MSCI ACWI ex USA |
| Number of Holdings | | 325 | 2,320 |
| Weighted Avg. Market Cap. (\$B) | | 85.0 | 85.0 |
| Median Market Cap. (\$B) | | 24.6 | 9.1 |
| Price To Earnings | | 14.4 | 13.5 |
| Price To Book | | 2.7 | 2.4 |
| Price To Sales | | 1.6 | 1.1 |
| Return on Equity (%) | | 18.0 | 15.1 |
| Yield (%) | | 3.2 | 3.4 |
| | Top Holdings | | |
| TOTALENERGIES SE | | | 2.8% |
| SCHNEIDER ELECTRIC SA | | | 1.8% |
| ASTRAZENECA PLC | | | 1.6% |
| SAMSUNG ELECTRONICS CO LTD | | | 1.6% |
| FRANCO-NEVADA CORP | | | 1.6% |
| CADENCE DESIGN SYSTEMS INC | | | 1.5% |
| NESTLE SA, CHAM UND VEVEY | | | 1.5% |
| NOVO NORDISK A/S | | | 1.4% |
| ASML HOLDING NV | | | 1.4% |
| LEGRAND | | | 1.4% |
| Total | | | 16.5% |
| | | | |

Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|---------------------------|--------------|------------|--------------|--------------|
| Non-U.S. Equity Composite | 12.6% | 27.5% | 53.8% | 6.1% |
| MSCI ACWI ex USA | 16.1% | 27.3% | 56.6% | 0.0% |
| Weight Over/Under | -3.5% | 0.1% | -2.8% | 6.1% |
| | | | | |

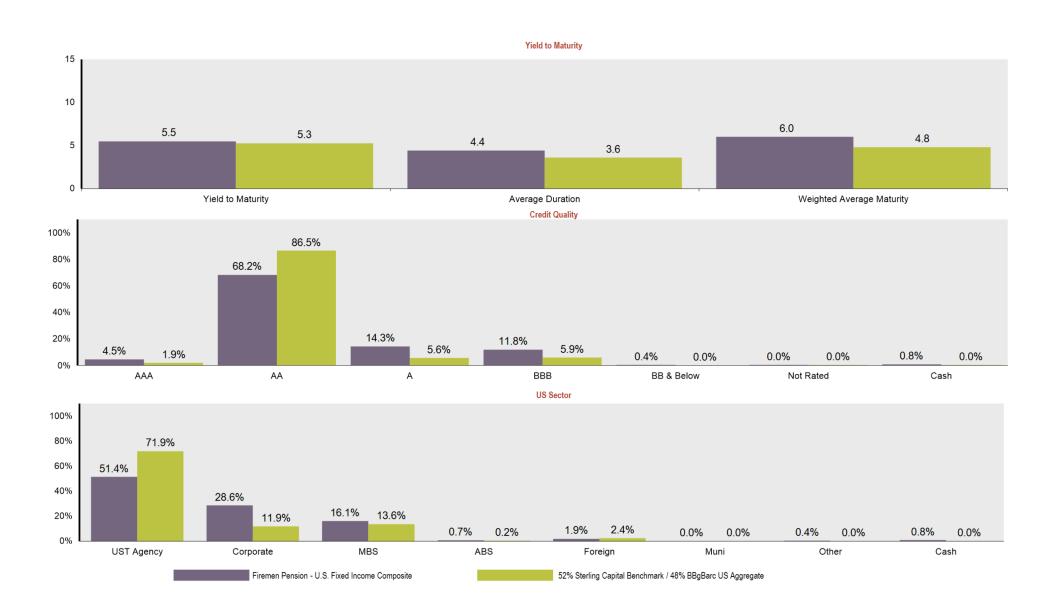
Sector Allocation (%) vs MSCI ACWI ex USA



Region Allocation Summary

| Region | % of Total | % of Bench | % Diff |
|------------------------|---------------|---------------|--------|
| North America ex U.S. | 4.7% | 7.6% | -2.9% |
| United States | 6.7% | 0.0% | 6.7% |
| Europe Ex U.K. | 48.5% | 32.0% | 16.5% |
| United Kingdom | 11.6% | 9.8% | 1.7% |
| Pacific Basin Ex Japan | 3.3% | 7.3% | -4.0% |
| Japan | 11.8% | 14.7% | -2.9% |
| Emerging Markets | 11.6% | 28.0% | -16.3% |
| Other | 1.9% | 0.7% | 1.2% |
| Total | 100.0% | 100.0% | 0.0% |

Common Holdings Matrix American Funds Int! Growth & Income MFS International Intrinsic Value American Funds Int'l Growth & Income 29 34 MFS International Intrinsic Value 29 16



Performance Summary (Net)

| | 3 Mo | YTD | 1 Yr | 3 Yrs | 5 Yrs | Market Value | % of Portfolio | Policy % | Inception | Inception Date |
|--|------|------|-------|-------|-------|--------------|-------------------|----------|-----------|-------------------|
| Firemen Pension Total Fund | -2.4 | 5.8 | 11.8 | 6.1 | 6.0 | 124,804,277 | 100.0 | 100.0 | 6.4 | Apr-05 |
| Policy Index | -2.6 | 6.5 | 12.4 | 5.7 | 6.1 | | | | 6.6 | Apr-05 |
| InvMetrics Public DB Net Rank | 27 | 23 | 32 | 15 | 13 | | | | 33 | Apr-05 |
| Total Equity Composite | -3.2 | 9.6 | 20.2 | 9.1 | 7.8 | 82,204,755 | 65.9 | 66.0 | 11.2 | Jan-12 |
| Total Equity Policy Index | -3.4 | 10.9 | 20.6 | 8.2 | 7.7 | | | | 11.1 | Jan-12 |
| Vanguard Equity Income | -2.0 | -1.1 | 12.7 | 12.0 | 7.8 | 7,702,570 | 6.2 | | 10.7 | Aug-12 |
| Russell 1000 Value | -3.2 | 1.8 | 14.4 | 11.0 | 6.2 | | | | 10.0 | Aug-12 |
| Large Value MStar MF Rank | 40 | 83 | 74 | 54 | 25 | | | | 29 | Aug-12 |
| Vanguard Total Stock Market Index | -3.3 | 12.3 | 20.4 | 9.2 | 9.1 | 35,719,956 | 28.6 | | 10.1 | Nov-14 |
| CRSP US Total Market TR USD | -3.3 | 12.3 | 20.4 | 9.3 | 9.1 | | | | 10.1 | Nov-14 |
| All Cap MStar MF Rank | 41 | 25 | 28 | 51 | 23 | | | | 24 | Nov-14 |
| Vanguard Total Stock Market Index ETF | -3.2 | 12.4 | 20.3 | 9.3 | 9.1 | 15,319,646 | 12.3 | | 10.5 | Apr-14 |
| CRSP US Total Market TR USD | -3.3 | 12.3 | 20.4 | 9.3 | 9.1 | | | | 10.5 | Apr-14 |
| All Cap MStar MF Rank | 39 | 25 | 29 | 51 | 24 | | | | 23 | Apr-14 |
| Vanguard Mid Cap Index | -5.1 | 3.3 | 12.6 | | | 3,707,209 | 3.0 | | -3.4 | May-21 |
| CRSP US Mid Cap TR USD | -5.1 | 3.3 | 12.6 | | | | | | -3.4 | May-21 |
| Mid-Cap Blend MStar MF Rank | 78 | 64 | 64 | | | | | | 56 | May-21 |
| Dodge & Cox Global Stock | 0.6 | 11.6 | 26.4 | 16.3 | 7.8 | 5,215,686 | 4.2 | | 6.8 | Aug-14 |
| MSCI ACWI Value NR USD | -1.8 | 2.4 | 17.0 | 9.7 | 4.0 | | | | 4.2 | Aug-14 |
| Global Large Stock Value Mstar MF Rank | 1 | 10 | 16 | 3 | 3 | | | | 9 | Aug-14 |
| American Funds Int'l Growth & Income | -4.1 | 5.7 | 24.5 | 5.7 | 3.8 | 7,319,432 | 5.9 | | 2.9 | Aug-14 |
| MSCI ACWI ex USA | -3.8 | 5.3 | 20.4 | 3.7 | 2.6 | | | | 2.6 | Aug-14 |
| Foreign Large Blend MStar MF Rank | 35 | 55 | 40 | 31 | 21 | | | | 69 | Aug-14 |
| MFS International Intrinsic Value | -4.7 | 7.2 | 20.5 | 0.2 | 4.4 | 7,220,256 | 5.8 | | 6.4 | Aug-14 |
| MSCI EAFE | -4.1 | 7.1 | 25.6 | 5.8 | 3.2 | | | | 3.3 | Aug-14 |
| Foreign Large Blend MStar MF Rank | 54 | 25 | 77 | 97 | 11 | | | | 3 | Aug-14 |
| Real Estate Composite | | | | | | 14,284,228 | 11.4 | 10.0 | | |
| Morgan Stanley Prime Property Fund | -0.2 | -3.7 | -7.2 | 8.0 | 6.4 | 14,284,228 | 11.4 | | 6.4 | Oct-18 |
| NFI-ODCE | -2.1 | -8.1 | -12.9 | 6.2 | 4.7 | | | | 4.7 | Oct-18 |
| InvMetrics Public DB Real Estate Priv Net Rank | 13 | 13 | 11 | 9 | 6 | | | | 6 | Oct-18 |

Performance Summary (Net)

| | 3 Mo | YTD | 1 Yr | 3 Yrs | 5 Yrs | Market Value | % of Portfolio | Policy % | Inception | Inception Date |
|---|------|------|------|-------|-------|--------------|-------------------|----------|-----------|-------------------|
| U.S. Fixed Income Composite | -1.6 | 0.4 | 1.9 | -2.9 | 0.4 | 23,366,718 | 18.7 | 23.0 | 1.0 | Jan-12 |
| Fixed Income Policy Index | -1.1 | 0.7 | 2.0 | -2.5 | 0.6 | | | | 1.0 | Jan-12 |
| Vanguard Total Bond Market Index | -3.1 | -0.9 | 0.7 | -5.2 | 0.1 | 12,009,974 | 9.6 | | 1.1 | Dec-11 |
| Bloomberg US Aggregate TR | -3.2 | -1.2 | 0.6 | -5.2 | 0.1 | | | | 1.1 | Dec-11 |
| Intermediate Core Bond MStar MF Rank | 57 | 58 | 57 | 66 | 56 | | | | 76 | Dec-11 |
| Sterling Capital - Short-Term Bonds | 1.3 | 3.0 | 3.8 | 0.4 | 1.5 | 7,680,280 | 6.2 | | 1.3 | Jul-14 |
| Sterling Capital Policy Index | 0.9 | 2.3 | 3.1 | 0.0 | 1.4 | | | | 1.1 | Jul-14 |
| Baird Core Plus Bond Fund | -2.7 | -0.2 | 2.3 | | | 3,676,464 | 2.9 | | -7.4 | Nov-21 |
| Bloomberg US Universal TR | -2.9 | -0.6 | 1.6 | | | | | | -7.7 | Nov-21 |
| Intermediate Core Plus Bond MStar MF Rank | 31 | 31 | 19 | | | | | | 26 | Nov-21 |
| Cash Equivalents Composite | | | | | | 4,948,577 | 4.0 | 1.0 | | |
| Govt Obligations MM Fund | | | | | | 4,948,577 | 4.0 | | | |

Policy Index History

| Firemen Pension | Total Fund | |
|-----------------|------------|--|
| 1/1/2020 | Present | 52% Russell 3000 / 14% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 12% Sterling Capital Policy Index / 1% ICE BofA 91 Days T-Bills TR / 10% NFI-ODCE |
| 10/1/2019 | 12/31/2019 | 52% Russell 3000 / 14% MSCI ACWI ex USA / 12% Bloomberg US Aggregate TR / 13.5% Sterling Capital Policy Index / 1% ICE BofA 91 Days T-Bills TR / 7.5% NFI-ODCE |
| 9/1/2019 | 9/30/2019 | 52% Russell 3000 / 14% MSCI ACWI ex USA / 13.5% Bloomberg US Aggregate TR / 14.5% Sterling Capital Policy Index / 1% ICE BofA 91 Days T-Bills TR / 5% NFI-ODCE |
| 10/1/2018 | 8/31/2019 | 49% Russell 3000 / 17% MSCI ACWI ex USA / 4% Bloomberg US Aggregate TR / 24% Bloomberg US Govt 1-5 Yr TR / 1% ICE BofA 91 Days T-Bills TR / 5% NFI-ODCE |
| 8/1/2016 | 9/30/2018 | 51% Russell 3000 / 17% MSCI ACWI ex USA / 4% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 1% ICE BofA 91 Days T-Bills TR |
| 7/1/2015 | 7/30/2016 | 51% Russell 3000 / 17% MSCI ACWI ex USA / 3% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 2% ICE BofA 91 Days T-Bills TR |
| 6/1/2015 | 6/30/2015 | 44.25% Russell 3000 / 14.75% MSCI ACWI ex USA / 10% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 4% ICE BofA 91 Days T-Bills TR |
| 5/1/2015 | 5/31/2015 | 42.75% Russell 3000 / 14.25% MSCI ACWI ex USA / 10% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 6% ICE BofA 91 Days T-Bills TR |
| 4/1/2015 | 4/30/2015 | 41.25% Russell 3000 / 13.75% MSCI ACWI ex USA / 10% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 8% ICE BofA 91 Days T-Bills TR |
| 3/1/2015 | 3/31/2015 | 39.75% Russell 3000 / 13.25% MSCI ACWI ex USA / 10% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 10% ICE BofA 91 Days T-Bills TR |
| 2/1/2015 | 2/28/2015 | 38.25% Russell 3000 / 12.75% MSCI ACWI ex USA / 10% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 12% ICE BofA 91 Days T-Bills TR |
| 1/1/2015 | 1/31/2015 | 36.75% Russell 3000 / 12.25% MSCI ACWI ex USA / 10% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 14% ICE BofA 91 Days T-Bills TR |
| 12/1/2014 | 12/31/2014 | 35.25% Russell 3000 / 11.75% MSCI ACWI ex USA / 10% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 16% ICE BofA 91 Days T-Bills TR |
| 11/1/2014 | 11/30/2014 | 33.75% Russell 3000 / 11.25% MSCI ACWI ex USA / 10% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 18% ICE BofA 91 Days T-Bills TR |
| 10/1/2014 | 10/31/2014 | 32.25% Russell 3000 / 10.75% MSCI ACWI ex USA / 10% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 20% ICE BofA 91 Days T-Bills TR |
| 9/1/2014 | 9/30/2014 | 30.75% Russell 3000 / 10.25% MSCI ACWI ex USA / 10% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 22% ICE BofA 91 Days T-Bills TR |
| 8/1/2014 | 8/31/2014 | 29.25% Russell 3000 / 9.75% MSCI ACWI ex USA / 10% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 24% ICE BofA 91 Days T-Bills TR |
| 7/1/2014 | 7/31/2014 | 27.75% Russell 3000 / 9.25% MSCI ACWI ex USA / 10% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 26% ICE BofA 91 Days T-Bills TR |
| 6/1/2014 | 6/30/2014 | 26.25% Russell 3000 / 8.75% MSCI ACWI ex USA / 10% Bloomberg US Aggregate TR / 55% ICE BofA 91 Days T-Bills TR |
| 5/1/2014 | 5/31/2014 | 24.75% Russell 3000 / 8.25% MSCI ACWI ex USA / 10% Bloomberg US Aggregate TR / 57% ICE BofA 91 Days T-Bills TR |
| 4/1/2014 | 4/30/2014 | 23.25% Russell 3000 / 7.75% MSCI ACWI ex USA / 10% Bloomberg US Aggregate TR / 59% ICE BofA 91 Days T-Bills TR |
| 3/1/2014 | 3/31/2014 | 21.76% Russell 3000 / 7.53% MSCI ACWI ex USA / 11.71% Bloomberg US Aggregate TR / 59% ICE BofA 91 Days T-Bills TR |
| 2/1/2014 | 2/28/2014 | 21.22% Russell 3000 / 7.35% MSCI ACWI ex USA / 11.43% Bloomberg US Aggregate TR / 60% ICE BofA 91 Days T-Bills TR |
| 1/1/2014 | 1/31/2014 | 21.22% Russell 3000 / 7.35% MSCI ACWI ex USA / 11.43% Bloomberg US Aggregate TR / 60% ICE BofA 91 Days T-Bills TR |
| 1/1/2012 | 12/31/2013 | 52% Russell 3000 / 28% Bloomberg US Aggregate TR / 18% MSCI EAFE / 2% 91 Day T-Bills |

Policy Index History

| 1/1/2020 | Present | 52% Russell 3000 / 14% MSCI ACWI ex USA / 11% Bloomberg US Aggregate TR / 12% Bloomberg US Govt 1-5 Yr TR / 1% ICE BofA 91 Days T-Bills TR / 10% NFI-ODCE |
|--------------|-------------------------|--|
| 10/1/2018 | 12/31/2019 | 49% Russell 3000 / 17% MSCI ACWI ex USA / 4% Bloomberg US Aggregate TR / 24% Bloomberg US Govt 1-5 Yr TR / 1% ICE BofA 91 Days T-Bills TR / 5% NFI-ODCE |
| 8/1/2016 | 9/30/2018 | 51% Russell 3000 / 17% MSCI ACWI ex USA / 4% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 1% ICE BofA 91 Days T-Bills TR |
| 7/1/2014 | 7/31/2016 | 51% Russell 3000 / 17% MSCI ACWI ex USA / 3% Bloomberg US Aggregate TR / 27% Bloomberg US Govt 1-5 Yr TR / 2% ICE BofA 91 Days T-Bills TR |
| 1/1/2012 | 6/30/2014 | 52% Russell 3000 / 28% Bloomberg US Aggregate TR / 18% MSCI EAFE / 2% 91 Day T-Bills |
| 1/1/2007 | 12/31/2011 | 51% Russell 3000 / 32% Bloomberg US Govt/Credit Int TR / 12% MSCI EAFE / 5% MSCI US REIT |
| 4/1/2005 | 12/31/2006 | 18% FT Wilshire 5000 Full Cap / 18% S&P 500 / 8% Russell 2000 / 20% Bloomberg US Aggregate TR / 20% Bloomberg US Govt/Credit Int TR / 10% MSCI EAFE / 6% FTSE NAREIT All Equity REIT |
| Total Equity | Composite | |
| 9/1/2019 | Present | 79% Russell 3000 / 21% MSCI ACWI ex USA |
| 10/1/2018 | 8/31/2019 | 74% Russell 3000 / 26% MSCI ACWI ex USA |
| 7/1/2014 | 9/30/2018 | 75% Russell 3000 / 25% MSCI ACWI ex USA |
| 1/1/2012 | 6/30/2014 | 74% Russell 3000 / 26% MSCI EAFE |
| U.S. Equit | y Composite | |
| 1/1/2012 | Present | Russell 3000 |
| Global Eq | uity Composite | |
| 1/1/2012 | Present | MSCI ACWI |
| | Equity Composite | |
| 6/1/2014 | Present | MSCI ACWI ex USA |
| 1/1/2012 | 5/31/2014 | MSCI EAFE |
| Real Estate | | |
| 10/1/2018 | Present | NFI-ODCE |
| | ncome Composite | |
| 9/1/2019 | Present | 52% Sterling Capital Policy Index / 48% Bloomberg US Aggregate TR |
| 8/1/2016 | 8/31/2019 | 13% Bloomberg US Aggregate TR / 87% Bloomberg US Govt 1-5 Yr TR |
| 6/1/2014 | 7/31/2016 | 10% Bloomberg US Aggregate TR / 90% Bloomberg US Govt 1-5 Yr TR |
| 1/1/2012 | 5/31/2014 | Bloomberg US Aggregate TR |
| • | alents Composite | |
| 12/31/2011 | Present | ICE BofA 91 Days T-Bills TR |

Fee Summary

| Account | Fee Schedule | % of Portfolio | Estimated Annual Fee (\$) | Estimated Annual Fee (%) |
|---------------------------------------|-----------------|----------------|------------------------------|-----------------------------|
| Vanguard Equity Income | 0.19% of Assets | 6.2% | \$14,635 | 0.19% |
| Vanguard Total Stock Market Index | 0.03% of Assets | 28.6% | \$10,716 | 0.03% |
| Vanguard Total Stock Market Index ETF | 0.03% of Assets | 12.3% | \$4,596 | 0.03% |
| Vanguard Mid Cap Index | 0.04% of Assets | 3.0% | \$1,483 | 0.04% |
| Dodge & Cox Global Stock | 0.62% of Assets | 4.2% | \$32,337 | 0.62% |
| American Funds Int'l Growth & Income | 0.54% of Assets | 5.9% | \$39,525 | 0.54% |
| MFS International Intrinsic Value | 0.61% of Assets | 5.8% | \$44,044 | 0.61% |
| Morgan Stanley Prime Property Fund | 0.84% of Assets | 11.4% | \$119,988 | 0.84% |
| Vanguard Total Bond Market Index | 0.03% of Assets | 9.6% | \$3,723 | 0.03% |
| Sterling Capital - Short-Term Bonds | 0.08% of Assets | 6.2% | \$6,144 | 0.08% |
| Baird Core Plus Bond Fund | 0.30% of Assets | 2.9% | \$11,029 | 0.30% |
| Govt Obligations MM Fund | 0.30% of Assets | 4.0% | \$14,846 | 0.30% |
| Investment Management Fee | | 100.0% | \$303,065 | 0.24% |



Officers & Employee Pension

Portfolio Overview

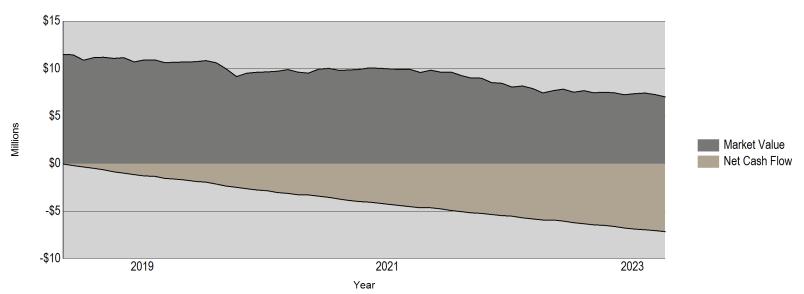


City of Allentown Officers & Employee Pension

Market Value Summary

As of September 30, 2023

Market Value History



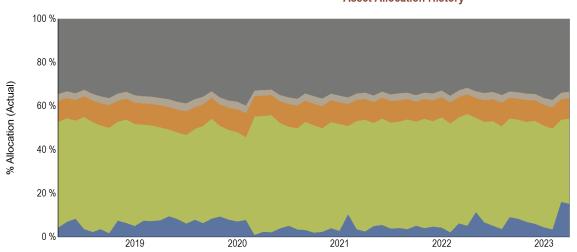
Cash Flow Summary by Manager From July 01, 2023 to September 30, 2023

| | Beginning Market Value | Net Cash Flow | Net Investment Change | Ending Market Value |
|--------------------------------------|---------------------------|---------------|--------------------------|------------------------|
| Vanguard Equity Income | \$307,537 | -\$22,500 | -\$5,496 | \$279,540 |
| Vanguard Total Stock Market Index | \$2,197,622 | -\$205,000 | -\$68,893 | \$1,923,729 |
| Vanguard Mid Cap Index | \$158,286 | -\$12,500 | -\$7,718 | \$138,068 |
| Dodge & Cox Global Stock | \$231,110 | -\$22,500 | \$1,480 | \$210,090 |
| American Funds Int'l Growth & Income | \$373,255 | -\$20,000 | -\$14,984 | \$338,270 |
| MFS International Intrinsic Value | \$335,406 | \$0 | -\$15,845 | \$319,562 |
| Sterling Capital - Short-Term Bonds | \$3,423,647 | -\$715,880 | \$35,816 | \$2,743,583 |
| Govt Obligations MM Fund | \$335,281 | \$727,687 | \$9,564 | \$1,072,532 |
| Total | \$7,362,144 | -\$270,693 | -\$66,076 | \$7,025,375 |

City of Allentown Officers & Employee Pension

Asset Allocation Summary





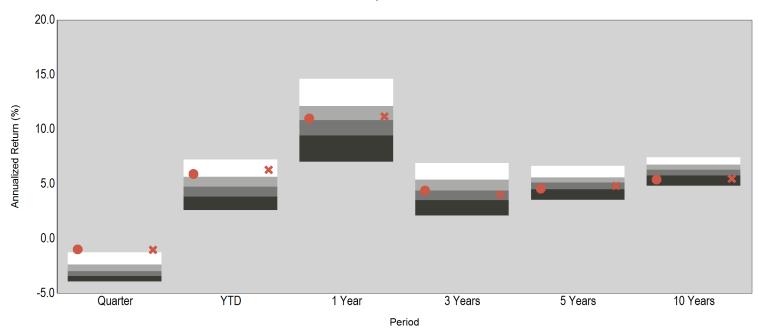


| | Market Value | % of Portfolio | Policy % | Policy Difference |
|--------------------------------------|--------------|----------------|----------|-------------------|
| O&E Pension Total Fund | 7,025,375 | 100.0 | 100.0 | 0 |
| Total Equity Composite | 3,209,260 | 45.7 | 46.0 | -22,413 |
| Vanguard Equity Income | 279,540 | 4.0 | | |
| Vanguard Total Stock Market Index | 1,923,729 | 27.4 | | |
| Vanguard Mid Cap Index | 138,068 | 2.0 | | |
| Dodge & Cox Global Stock | 210,090 | 3.0 | | |
| American Funds Int'l Growth & Income | 338,270 | 4.8 | | |
| MFS International Intrinsic Value | 319,562 | 4.5 | | |
| U.S. Fixed Income Composite | 2,743,583 | 39.1 | 52.0 | -909,612 |
| Sterling Capital - Short-Term Bonds | 2,743,583 | 39.1 | | |
| Cash Equivalents Composite | 1,072,532 | 15.3 | 2.0 | 932,025 |
| Govt Obligations MM Fund | 1,072,532 | 15.3 | 2.0 | 932,025 |

Peer Ranking (Net)

As of September 30, 2023

InvMetrics Public DB Net Return Comparison



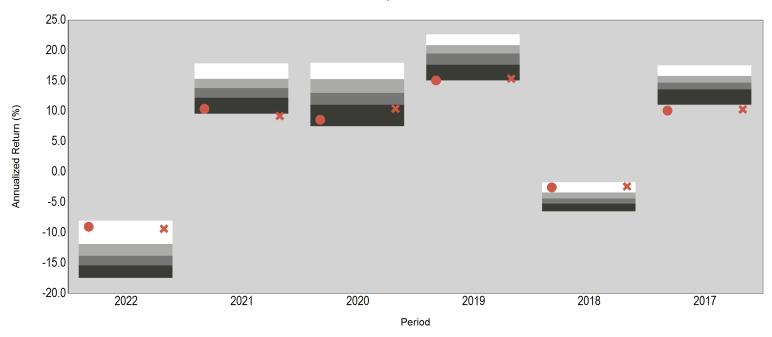
| 5th Percentile |
|------------------------|
| 25th Percentile |
| Median |
| 75th Percentile |
| 95th Percentile |
| # of Portfolios |
| O&E Pension Total Fund |
| Policy Index |

| Return (Rank) | | | | | | | | | | | |
|---------------|-----|-----|------|------|------|-----|------|-----|------|-----|------|
| -1.2 | | 7.2 | | 14.6 | | 6.9 | | 6.6 | | 7.4 | |
| -2.4 | | 5.7 | | 12.1 | | 5.4 | | 5.6 | | 6.8 | |
| -3.0 | | 4.7 | | 10.8 | | 4.4 | | 5.1 | | 6.3 | |
| -3.4 | | 3.8 | | 9.4 | | 3.5 | | 4.5 | | 5.8 | |
| -3.9 | | 2.6 | | 7.0 | | 2.1 | | 3.5 | | 4.8 | |
| 562 | | 556 | | 554 | | 543 | | 525 | | 441 | |
| -1.0 | (4) | 5.9 | (20) | 11.0 | (48) | 4.4 | (50) | 4.6 | (72) | 5.4 | (88) |
| -1.0 | (4) | 6.3 | (15) | 11.2 | (44) | 4.0 | (62) | 4.8 | (61) | 5.5 | (86) |

Peer Ranking (Net)

As of September 30, 2023

InvMetrics Public DB Net Return Comparison



| Return (Rank) | | | | | | | | | | | |
|---------------|---|---|--|---|---|--|--|---|---|--|--|
| -8.0 | | 17.8 | | 17.9 | | 22.6 | | -1.7 | | 17.5 | |
| -11.9 | | 15.3 | | 15.3 | | 20.8 | | -3.4 | | 15.8 | |
| -13.8 | | 13.8 | | 13.0 | | 19.5 | | -4.4 | | 14.7 | |
| -15.4 | | 12.2 | | 11.0 | | 17.6 | | -5.2 | | 13.6 | |
| -17.5 | | 9.6 | | 7.5 | | 15.1 | | -6.5 | | 11.1 | |
| 539 | | 559 | | 596 | | 550 | | 496 | | 269 | |
| -9.0 -9.4 | (8) (9) | 10.4 9.2 | (93) (97) | 8.6 10.4 | (93) (82) | 15.1 15.3 | (95) (94) | -2.5 -2.4 | (10) (9) | 10.1 10.3 | (97) (97) |
| | -8.0 -11.9 -13.8 -15.4 -17.5 539 | -8.0 -11.9 -13.8 -15.4 -17.5 539 -9.0 (8) | -8.0 17.8 -11.9 15.3 -13.8 13.8 -15.4 12.2 -17.5 9.6 539 559 -9.0 (8) 10.4 | -8.0 17.8 -11.9 15.3 -13.8 13.8 -15.4 12.2 -17.5 9.6 539 559 -9.0 (8) 10.4 (93) | -8.0 17.8 17.9 -11.9 15.3 15.3 -13.8 13.8 13.0 -15.4 12.2 11.0 -17.5 9.6 7.5 539 559 596 -9.0 (8) 10.4 (93) 8.6 | -8.0 17.8 17.9 -11.9 15.3 15.3 -13.8 13.8 13.0 -15.4 12.2 11.0 -17.5 9.6 7.5 539 559 596 -9.0 (8) 10.4 (93) 8.6 (93) | -8.0 17.8 17.9 22.6 -11.9 15.3 15.3 20.8 -13.8 13.8 13.0 19.5 -15.4 12.2 11.0 17.6 -17.5 9.6 7.5 15.1 539 559 596 550 -9.0 (8) 10.4 (93) 8.6 (93) 15.1 | -8.0 17.8 17.9 22.6 -11.9 15.3 15.3 20.8 -13.8 13.8 13.0 19.5 -15.4 12.2 11.0 17.6 -17.5 9.6 7.5 15.1 539 559 596 550 -9.0 (8) 10.4 (93) 8.6 (93) 15.1 (95) | -8.0 17.8 17.9 22.6 -1.7 -11.9 15.3 15.3 20.8 -3.4 -13.8 13.8 13.0 19.5 -4.4 -15.4 12.2 11.0 17.6 -5.2 -17.5 9.6 7.5 15.1 -6.5 539 559 596 550 496 -9.0 (8) 10.4 (93) 8.6 (93) 15.1 (95) -2.5 | -8.0 17.8 17.9 22.6 -1.7 -11.9 15.3 15.3 20.8 -3.4 -13.8 13.8 13.0 19.5 -4.4 -15.4 12.2 11.0 17.6 -5.2 -17.5 9.6 7.5 15.1 -6.5 539 559 596 550 496 -9.0 (8) 10.4 (93) 8.6 (93) 15.1 (95) -2.5 (10) | -8.0 17.8 17.9 22.6 -1.7 17.5 -11.9 15.3 15.3 20.8 -3.4 15.8 -13.8 13.8 13.0 19.5 -4.4 14.7 -15.4 12.2 11.0 17.6 -5.2 13.6 -17.5 9.6 7.5 15.1 -6.5 11.1 539 559 596 550 496 269 -9.0 (8) 10.4 (93) 8.6 (93) 15.1 (95) -2.5 (10) 10.1 |

City of Allentown Officers & Employee Pension

Risk & Statistics Summary

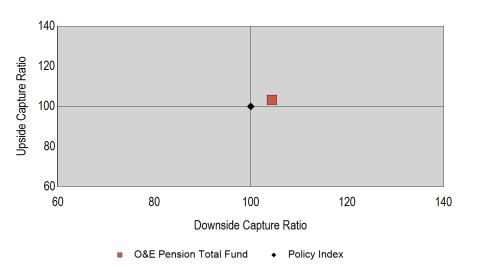
As of September 30, 2023

RISK RETURN STATISTICS

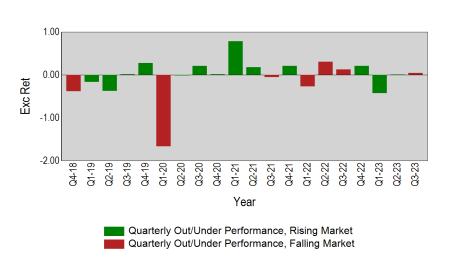
October 01, 2018 Through September 30, 2023

| | ension Total Fund | Policy Index |
|---|-------------------|--------------|
| RETURN SUMMARY STATISTICS | | • |
| Number of Periods | 60 | 60 |
| Maximum Return | 5.75 | 5.75 |
| Minimum Return | -6.90 | -5.91 |
| Annualized Return | 4.58 | 4.84 |
| Total Return | 25.10 | 26.63 |
| Annualized Excess Return Over Risk Free | 2.95 | 3.20 |
| Annualized Excess Return | -0.25 | 0.00 |
| RISK SUMMARY STATISTICS | | |
| Beta | 1.03 | 1.00 |
| Upside Deviation | 4.56 | 4.70 |
| Downside Deviation | 5.67 | 5.37 |
| RISK/RETURN SUMMARY STATISTICS | | |
| Annualized Standard Deviation | 8.92 | 8.65 |
| Alpha | -0.03 | 0.00 |
| Sharpe Ratio | 0.33 | 0.37 |
| Excess Return Over Market / Risk | -0.03 | 0.00 |
| Tracking Error | 0.85 | 0.00 |
| Information Ratio | -0.30 | |
| CORRELATION STATISTICS | | |
| R-Squared | 0.99 | 1.00 |
| Correlation | 1.00 | 1.00 |

Upside Capture Ratio vs. Downside Capture Ratio 5 Years Ending September 30, 2023



Quarterly Excess Performance O&E Pension Total Fund vs. Policy Index





City of Allentown Officers & Employee Pension

Total Equity Composite

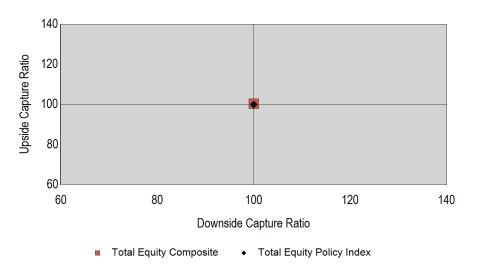
As of September 30, 2023

RISK RETURN STATISTICS

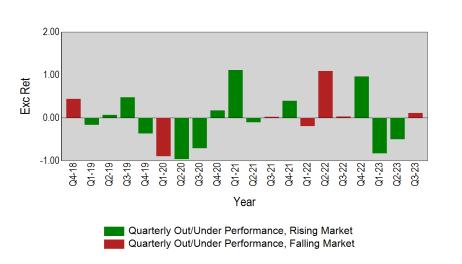
October 01, 2018 Through September 30, 2023

| | Total Equity Composite | Total Equity Policy Index |
|---|-------------------------------|----------------------------------|
| RETURN SUMMARY STATISTICS | | |
| Number of Periods | 60 | 60 |
| Maximum Return | 12.88 | 12.47 |
| Minimum Return | -14.60 | -13.93 |
| Annualized Return | 7.67 | 7.60 |
| Total Return | 44.68 | 44.24 |
| Annualized Excess Return Over Risk Free | 6.04 | 5.97 |
| Annualized Excess Return | 0.07 | 0.00 |
| RISK SUMMARY STATISTICS | | |
| Beta | 0.99 | 1.00 |
| Upside Deviation | 9.95 | 10.10 |
| Downside Deviation | 11.75 | 11.84 |
| RISK/RETURN SUMMARY STATISTICS | ; | |
| Annualized Standard Deviation | 18.73 | 18.79 |
| Alpha | 0.01 | 0.00 |
| Sharpe Ratio | 0.32 | 0.32 |
| Excess Return Over Market / Risk | 0.00 | 0.00 |
| Tracking Error | 1.25 | 0.00 |
| Information Ratio | 0.05 | |
| CORRELATION STATISTICS | | |
| R-Squared | 1.00 | 1.00 |
| Correlation | 1.00 | 1.00 |

Upside Capture Ratio vs. Downside Capture Ratio 5 Years Ending September 30, 2023



Quarterly Excess Performance Total Equity Composite vs. Total Equity Policy Index



Total Equity Composite

As of September 30, 2023

| Characteristics | | | | | | | |
|---------------------------------|--------------|------------|--------------|----------------|--|--|--|
| | | | Portfo | olio MSCI ACWI | | | |
| Number of Holdings | | | 4,0 | 74 2,947 | | | |
| Weighted Avg. Market Cap. (\$B) | | | 377 | | | | |
| Median Market Cap. (\$B) | | | | 3.0 12.1 | | | |
| Price To Earnings | | | | 7.9 18.0 | | | |
| Price To Book | | | | 3.3 | | | |
| Price To Sales | | | | 1.8 | | | |
| Return on Equity (%) | | | | 0.5 21.1 | | | |
| Yield (%) | | | 2 | 2.1 2.3 | | | |
| | | | | | | | |
| | Top Holding | IS | | | | | |
| APPLE INC | | | | 3.7% | | | |
| MICROSOFT CORP | | | | 3.5% | | | |
| AMAZON.COM INC | | | | 1.8% | | | |
| NVIDIA CORPORATION | | | | 1.5% | | | |
| ALPHABET INC | | | | 1.2% | | | |
| ALPHABET INC | | | | 1.1% | | | |
| META PLATFORMS INC | | | | 1.0% | | | |
| TESLA INC | | | | 1.0% | | | |
| BERKSHIRE HATHAWAY INC | | | | 0.9% | | | |
| JPMORGAN CHASE & CO | | | | 0.9% | | | |
| Total | | | | 16.7% | | | |
| Market Capitalization | | | | | | | |
| | Small Cap | Mid Cap | Large Cap | Unclassified | | | |
| Total Equity Composite | 8.2% | 17.4% | 71.0% | 3.3% | | | |
| MSCI ACWI | 7.2% | 17.8% | 75.1% | 0.0% | | | |
| Weight Over/Under | 1.1% | -0.3% | -4.1% | 3.3% | | | |
| | | | | | | | |

5.8 5.2 Energy 4.3 4.5 Materials Industrials 9.1 Cons. Disc. 11.2 Cons. Staples 12.6 11.9 Health Care 15.6 15.8 Financials 20.5 Info. Tech. 6.6 Comm. Svc. 2.5 2.6 Utilities 2.6 2.3 Real Estate 0.0 5.0 10.0 15.0 20.0 25.0

Sector Allocation (%) vs MSCI ACWI

Region Allocation Summary % of % of Region Total Bench % Diff North America ex U.S. 1.6% 2.9% -1.3% United States 75.1% 62.3% 12.9% Europe Ex U.K. 12.1% 0.7% 12.8% United Kingdom 3.6% 3.7% -0.1% 2.7% Pacific Basin Ex Japan 0.7% -2.0% 2.5% Japan 5.5% -3.0% 10.6% **Emerging Markets** 3.0% -7.6% Other 0.6% 0.3% 0.4% **Total** 100.0% 100.0% 0.0%

City of Allentown Officers & Employee Pension

U.S. Equity Composite

As of September 30, 2023

Characteristics

| | Portfolio | Russell 3000 |
|---------------------------------|-----------|--------------|
| Number of Holdings | 3,746 | 2,994 |
| Weighted Avg. Market Cap. (\$B) | 469.9 | 549.4 |
| Median Market Cap. (\$B) | 2.1 | 2.3 |
| Price To Earnings | 19.8 | 21.0 |
| Price To Book | 3.6 | 3.9 |
| Price To Sales | 2.1 | 2.2 |
| Return on Equity (%) | 21.8 | 22.3 |
| Yield (%) | 1.8 | 1.6 |

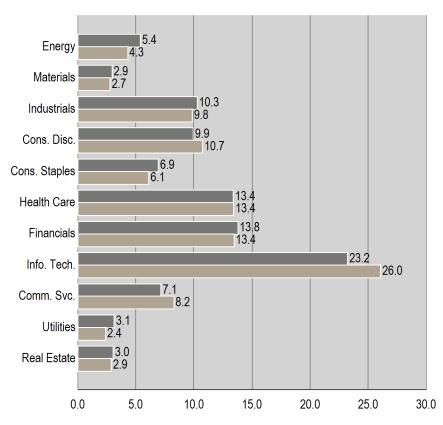
Top Holdings

| APPLE INC | 5.0% |
|------------------------|-------|
| MICROSOFT CORP | 4.6% |
| AMAZON.COM INC | 2.3% |
| NVIDIA CORPORATION | 2.0% |
| ALPHABET INC | 1.5% |
| TESLA INC | 1.3% |
| META PLATFORMS INC | 1.3% |
| ALPHABET INC | 1.3% |
| BERKSHIRE HATHAWAY INC | 1.2% |
| JPMORGAN CHASE & CO | 1.2% |
| Total | 21.9% |

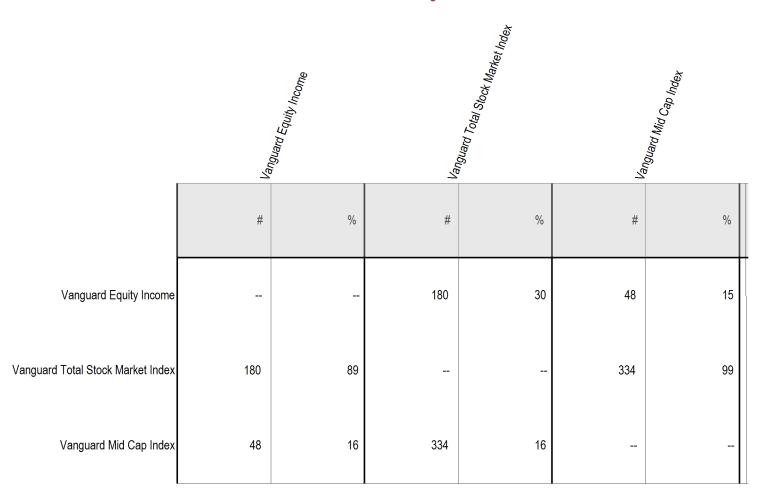
Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|-----------------------|--------------|------------|--------------|--------------|
| U.S. Equity Composite | 3.0% | 24.5% | 69.9% | 2.6% |
| Russell 3000 | 5.6% | 21.1% | 73.3% | 0.0% |
| Weight Over/Under | -2.6% | 3.4% | -3.4% | 2.6% |

Sector Allocation (%) vs Russell 3000



Common Holdings Matrix



As of September 30, 2023

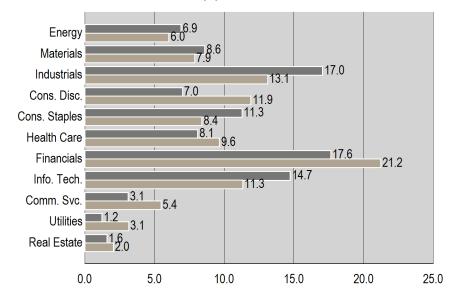
Characteristics

| Number of Holdings 322 2,320 Weighted Avg. Market Cap. (\$B) 85.4 85.0 Median Market Cap. (\$B) 24.6 9.1 Price To Earnings 14.4 13.5 Price To Book 2.6 2.4 Price To Sales 1.6 1.1 Return on Equity (%) 18.0 15.1 Yield (%) 3.2 3.4 Top Holdings TOTALENERGIES SE 2.8% SCHNEIDER ELECTRIC SA 1.8% ASTRAZENECA PLC 1.7% SAMSUNG ELECTRONICS CO LTD 1.6% FRANCO-NEVADA CORP 1.5% NOVO NORDISK A/S 1.5% CADENCE DESIGN SYSTEMS INC 1.5% NESTLE SA, CHAM UND VEVEY 1.5% ASML HOLDING NV 1.4% LEGRAND 1.3% Total 16.5% | | Onaracteristics | | |
|--|---------------------------------|-----------------|-----------|-------|
| Weighted Avg. Market Cap. (\$B) 85.4 85.0 Median Market Cap. (\$B) 24.6 9.1 Price To Earnings 14.4 13.5 Price To Book 2.6 2.4 Price To Sales 1.6 1.1 Return on Equity (%) 18.0 15.1 Yield (%) 3.2 3.4 Top Holdings TOTALENERGIES SE 2.8% SCHNEIDER ELECTRIC SA 1.8% ASTRAZENECA PLC 1.7% SAMSUNG ELECTRONICS CO LTD 1.6% FRANCO-NEVADA CORP 1.5% NOVO NORDISK A/S 1.5% CADENCE DESIGN SYSTEMS INC 1.5% NESTLE SA, CHAM UND VEVEY 1.5% ASML HOLDING NV 1.4% LEGRAND 1.3% | | | Portfolio | |
| Median Market Cap. (\$B) 24.6 9.1 Price To Earnings 14.4 13.5 Price To Book 2.6 2.4 Price To Sales 1.6 1.1 Return on Equity (%) 18.0 15.1 Yield (%) 3.2 3.4 TOP Holdings TOTALENERGIES SE 2.8% SCHNEIDER ELECTRIC SA 1.8% ASTRAZENECA PLC 1.7% SAMSUNG ELECTRONICS CO LTD 1.6% FRANCO-NEVADA CORP 1.5% NOVO NORDISK A/S 1.5% CADENCE DESIGN SYSTEMS INC 1.5% NESTLE SA, CHAM UND VEVEY 1.5% ASML HOLDING NV 1.4% LEGRAND 1.3% | Number of Holdings | | 322 | 2,320 |
| Price To Earnings 14.4 13.5 Price To Book 2.6 2.4 Price To Sales 1.6 1.1 Return on Equity (%) 18.0 15.1 Yield (%) 3.2 3.4 TOTALENERGIES SE 2.8% SCHNEIDER ELECTRIC SA 1.8% ASTRAZENECA PLC 1.7% SAMSUNG ELECTRONICS CO LTD 1.6% FRANCO-NEVADA CORP 1.5% NOVO NORDISK A/S 1.5% CADENCE DESIGN SYSTEMS INC 1.5% NESTLE SA, CHAM UND VEVEY 1.5% ASML HOLDING NV 1.4% LEGRAND 1.3% | Weighted Avg. Market Cap. (\$B) | | 85.4 | 85.0 |
| Price To Book 2.6 2.4 Price To Sales 1.6 1.1 Return on Equity (%) 18.0 15.1 Yield (%) 3.2 3.4 Top Holdings TOTALENERGIES SE 2.8% SCHNEIDER ELECTRIC SA 1.8% ASTRAZENECA PLC 1.7% SAMSUNG ELECTRONICS CO LTD 1.6% FRANCO-NEVADA CORP 1.5% NOVO NORDISK A/S 1.5% CADENCE DESIGN SYSTEMS INC 1.5% NESTLE SA, CHAM UND VEVEY 1.5% ASML HOLDING NV 1.4% LEGRAND 1.3% | Median Market Cap. (\$B) | | 24.6 | 9.1 |
| Price To Sales 1.6 1.1 Return on Equity (%) 18.0 15.1 Yield (%) 3.2 3.4 TOTALENERGIES SE 2.8% SCHNEIDER ELECTRIC SA 1.8% ASTRAZENECA PLC 1.7% SAMSUNG ELECTRONICS CO LTD 1.6% FRANCO-NEVADA CORP 1.5% NOVO NORDISK A/S 1.5% CADENCE DESIGN SYSTEMS INC 1.5% NESTLE SA, CHAM UND VEVEY 1.5% ASML HOLDING NV 1.4% LEGRAND 1.3% | Price To Earnings | | 14.4 | 13.5 |
| Return on Equity (%) 18.0 15.1 Yield (%) 3.2 3.4 TOTALENERGIES SE 2.8% SCHNEIDER ELECTRIC SA 1.8% ASTRAZENECA PLC 1.7% SAMSUNG ELECTRONICS CO LTD 1.6% FRANCO-NEVADA CORP 1.5% NOVO NORDISK A/S 1.5% CADENCE DESIGN SYSTEMS INC 1.5% NESTLE SA, CHAM UND VEVEY 1.5% ASML HOLDING NV 1.4% LEGRAND 1.3% | Price To Book | | 2.6 | 2.4 |
| Yield (%) 3.2 3.4 TOTALENERGIES SE 2.8% SCHNEIDER ELECTRIC SA 1.8% ASTRAZENECA PLC 1.7% SAMSUNG ELECTRONICS CO LTD 1.6% FRANCO-NEVADA CORP 1.5% NOVO NORDISK A/S 1.5% CADENCE DESIGN SYSTEMS INC 1.5% NESTLE SA, CHAM UND VEVEY 1.5% ASML HOLDING NV 1.4% LEGRAND 1.3% | Price To Sales | | 1.6 | 1.1 |
| TOTALENERGIES SE SCHNEIDER ELECTRIC SA ASTRAZENECA PLC SAMSUNG ELECTRONICS CO LTD FRANCO-NEVADA CORP NOVO NORDISK A/S CADENCE DESIGN SYSTEMS INC NESTLE SA, CHAM UND VEVEY ASML HOLDING NV LEGRAND 1.3% | Return on Equity (%) | | 18.0 | 15.1 |
| TOTALENERGIES SE 2.8% SCHNEIDER ELECTRIC SA 1.8% ASTRAZENECA PLC 1.7% SAMSUNG ELECTRONICS CO LTD 1.6% FRANCO-NEVADA CORP 1.5% NOVO NORDISK A/S 1.5% CADENCE DESIGN SYSTEMS INC 1.5% NESTLE SA, CHAM UND VEVEY 1.5% ASML HOLDING NV 1.4% LEGRAND 1.3% | Yield (%) | | 3.2 | 3.4 |
| SCHNEIDER ELECTRIC SA 1.8% ASTRAZENECA PLC 1.7% SAMSUNG ELECTRONICS CO LTD 1.6% FRANCO-NEVADA CORP 1.5% NOVO NORDISK A/S 1.5% CADENCE DESIGN SYSTEMS INC 1.5% NESTLE SA, CHAM UND VEVEY 1.5% ASML HOLDING NV 1.4% LEGRAND 1.3% | | Top Holdings | | |
| ASTRAZENECA PLC 1.7% SAMSUNG ELECTRONICS CO LTD 1.6% FRANCO-NEVADA CORP 1.5% NOVO NORDISK A/S 1.5% CADENCE DESIGN SYSTEMS INC 1.5% NESTLE SA, CHAM UND VEVEY 1.5% ASML HOLDING NV 1.4% LEGRAND 1.3% | TOTALENERGIES SE | | | 2.8% |
| SAMSUNG ELECTRONICS CO LTD FRANCO-NEVADA CORP NOVO NORDISK A/S CADENCE DESIGN SYSTEMS INC NESTLE SA, CHAM UND VEVEY ASML HOLDING NV LEGRAND 1.6% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% 1.5% | SCHNEIDER ELECTRIC SA | | | 1.8% |
| FRANCO-NEVADA CORP 1.5% NOVO NORDISK A/S 1.5% CADENCE DESIGN SYSTEMS INC 1.5% NESTLE SA, CHAM UND VEVEY 1.5% ASML HOLDING NV 1.4% LEGRAND 1.3% | ASTRAZENECA PLC | | | 1.7% |
| NOVO NORDISK A/S CADENCE DESIGN SYSTEMS INC NESTLE SA, CHAM UND VEVEY 1.5% ASML HOLDING NV LEGRAND 1.3% | SAMSUNG ELECTRONICS CO LTD | | | 1.6% |
| CADENCE DESIGN SYSTEMS INC NESTLE SA, CHAM UND VEVEY ASML HOLDING NV LEGRAND 1.5% 1.4% 1.3% | FRANCO-NEVADA CORP | | | 1.5% |
| NESTLE SA, CHAM UND VEVEY 1.5% ASML HOLDING NV 1.4% LEGRAND 1.3% | NOVO NORDISK A/S | | | 1.5% |
| ASML HOLDING NV 1.4% LEGRAND 1.3% | CADENCE DESIGN SYSTEMS INC | | | 1.5% |
| LEGRAND 1.3% | NESTLE SA, CHAM UND VEVEY | | | 1.5% |
| | ASML HOLDING NV | | | 1.4% |
| Total 16.5% | LEGRAND | | | 1.3% |
| | Total | | | 16.5% |

Market Capitalization

| - | | | | |
|---------------------------|--------------|------------|--------------|--------------|
| | Small Cap | Mid Cap | Large Cap | Unclassified |
| Non-U.S. Equity Composite | 12.5% | 27.4% | 54.0% | 6.1% |
| MSCI ACWI ex USA | 16.1% | 27.3% | 56.6% | 0.0% |
| Weight Over/Under | -3.6% | 0.1% | -2.6% | 6.1% |
| | | | | |

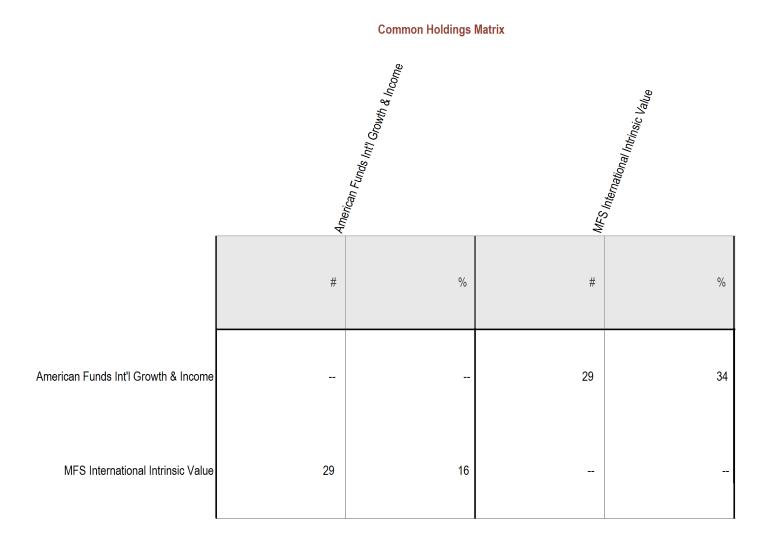
Sector Allocation (%) vs MSCI ACWI ex USA



Region Allocation Summary

| Region | % of Total | % of Bench | % Diff |
|------------------------|---------------|---------------|--------|
| North America ex U.S. | 4.7% | 7.6% | -2.9% |
| United States | 6.7% | 0.0% | 6.7% |
| Europe Ex U.K. | 48.3% | 32.0% | 16.3% |
| United Kingdom | 11.6% | 9.8% | 1.8% |
| Pacific Basin Ex Japan | 3.3% | 7.3% | -3.9% |
| Japan | 11.7% | 14.7% | -3.0% |
| Emerging Markets | 11.8% | 28.0% | -16.2% |
| Other | 1.9% | 0.7% | 1.2% |
| Total | 100.0% | 100.0% | 0.0% |

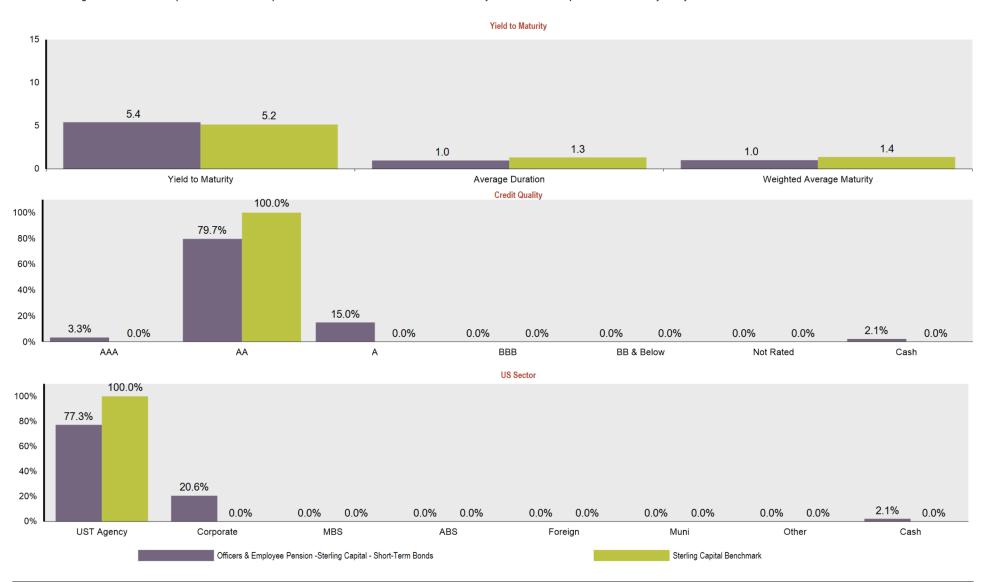
As of September 30, 2023



City of Allentown Officers & Employee Pension

U.S. Fixed Income Composite

As of September 30, 2023



City of Allentown Officers & Employee Pension

Performance Summary (Net)

As of September 30, 2023

| | 3 Mo | YTD | 1 Yr | 3 Yrs | 5 Yrs | Market Value | % of Portfolio | Policy % | Inception | Inception Date |
|--|------|------|------|-------|-------|--------------|-------------------|----------|-----------|-------------------|
| O&E Pension Total Fund | -1.0 | 5.9 | 11.0 | 4.4 | 4.6 | 7,025,375 | 100.0 | 100.0 | 5.5 | Apr-05 |
| Policy Index | -1.0 | 6.3 | 11.2 | 4.0 | 4.8 | | | | 5.9 | Apr-05 |
| InvMetrics Public DB Net Rank | 4 | 20 | 48 | 50 | 72 | | | | 82 | Apr-05 |
| Total Equity Composite | -3.3 | 9.4 | 20.3 | 8.9 | 7.7 | 3,209,260 | 45.7 | 46.0 | 11.1 | Jan-12 |
| Total Equity Policy Index | -3.4 | 10.7 | 20.6 | 8.1 | 7.6 | | | | 11.1 | Jan-12 |
| Vanguard Equity Income | -2.0 | -1.1 | 12.7 | 12.0 | 7.8 | 279,540 | 4.0 | | 10.7 | Aug-12 |
| Russell 1000 Value | -3.2 | 1.8 | 14.4 | 11.0 | 6.2 | | | | 10.0 | Aug-12 |
| Large Value MStar MF Rank | 40 | 83 | 74 | 54 | 25 | | | | 29 | Aug-12 |
| Vanguard Total Stock Market Index | -3.3 | 12.3 | 20.4 | 9.2 | 9.1 | 1,923,729 | 27.4 | | 10.1 | Nov-14 |
| CRSP US Total Market TR USD | -3.3 | 12.3 | 20.4 | 9.3 | 9.1 | | | | 10.1 | Nov-14 |
| All Cap MStar MF Rank | 41 | 25 | 28 | 51 | 23 | | | | 24 | Nov-14 |
| Vanguard Mid Cap Index | -5.1 | 3.3 | 12.6 | | | 138,068 | 2.0 | | -3.4 | May-21 |
| CRSP US Mid Cap TR USD | -5.1 | 3.3 | 12.6 | | | | | | -3.4 | May-21 |
| Mid-Cap Blend MStar MF Rank | 78 | 64 | 64 | | | | | | 56 | May-21 |
| Dodge & Cox Global Stock | 0.6 | 11.6 | 26.4 | 16.3 | 7.8 | 210,090 | 3.0 | | 6.8 | Aug-14 |
| MSCI ACWI Value NR USD | -1.8 | 2.4 | 17.0 | 9.7 | 4.0 | | | | 4.2 | Aug-14 |
| Global Large Stock Value Mstar MF Rank | 1 | 10 | 16 | 3 | 3 | | | | 9 | Aug-14 |
| American Funds Int'l Growth & Income | -4.1 | 5.7 | 24.5 | 5.7 | 3.8 | 338,270 | 4.8 | | 2.9 | Aug-14 |
| MSCI ACWI ex USA | -3.8 | 5.3 | 20.4 | 3.7 | 2.6 | | | | 2.6 | Aug-14 |
| Foreign Large Blend MStar MF Rank | 35 | 55 | 40 | 31 | 21 | | | | 69 | Aug-14 |
| MFS International Intrinsic Value | -4.7 | 7.2 | 20.5 | 0.2 | 4.4 | 319,562 | 4.5 | | 6.4 | Aug-14 |
| MSCI EAFE | -4.1 | 7.1 | 25.6 | 5.8 | 3.2 | | | | 3.3 | Aug-14 |
| Foreign Large Blend MStar MF Rank | 54 | 25 | 77 | 97 | 11 | | | | 3 | Aug-14 |
| U.S. Fixed Income Composite | 1.1 | 2.8 | 3.7 | 0.0 | 1.2 | 2,743,583 | 39.1 | 52.0 | 1.4 | Dec-11 |
| Fixed Income Policy Index | 0.9 | 2.3 | 3.1 | 0.0 | 1.7 | | | | 1.5 | Dec-11 |
| Sterling Capital - Short-Term Bonds | 1.1 | 2.8 | 3.7 | 0.0 | 1.2 | 2,743,583 | 39.1 | | 1.1 | Jun-14 |
| Sterling Capital Policy Index | 0.9 | 2.3 | 3.1 | 0.0 | 1.4 | | | | 1.1 | Jun-14 |
| Cash Equivalents Composite | | | | | | 1,072,532 | 15.3 | 2.0 | | |
| Govt Obligations MM Fund | | | | | | 1,072,532 | 15.3 | 2.0 | | |

Policy Index History

As of September 30, 2023

Policy Index History

| O&E Pension Total | al Fund | |
|------------------------------|------------------|--|
| 9/1/2019 | Present | 35% Russell 3000 / 11% MSCI ACWI ex USA / 52% Sterling Capital Policy Index / 2% ICE BofA 91 Days T-Bills TR |
| 6/1/2014 | 8/31/2019 | 35% Russell 3000 / 11% MSCI ACWI ex USA / 52% Bloomberg US Govt 1-5 Yr TR / 2% ICE BofA 91 Days T-Bills TR |
| 5/1/2014 | 5/31/2014 | 44.25% Russell 3000 / 14.75% MSCI ACWI ex USA / 21% Bloomberg US Aggregate TR / 20% ICE BofA 91 Days T-Bills TR |
| 4/1/2014 | 4/30/2014 | 43.50% Russell 3000 / 14.5% MSCI ACWI ex USA / 21% Bloomberg US Aggregate TR / 21% ICE BofA 91 Days T-Bills TR |
| 3/1/2014 | 3/31/2014 | 40.59% Russell 3000 / 13.53% MSCI ACWI ex USA / 23.88% Bloomberg US Aggregate TR / 22% ICE BofA 91 Days T-Bills TR |
| 2/1/2014 | 2/28/2014 | 40.07% Russell 3000 / 13.36% MSCI ACWI ex USA / 23.57% Bloomberg US Aggregate TR / 23% ICE BofA 91 Days T-Bills TR |
| 1/1/2014 | 1/31/2014 | 39.55% Russell 3000 / 13.18% MSCI ACWI ex USA / 23.27% Bloomberg US Aggregate TR / 24% ICE BofA 91 Days T-Bills TR |
| 1/1/2012 | 12/31/2013 | 51% Russell 3000 / 30% Bloomberg US Aggregate TR / 17% MSCI EAFE / 2% 91 Day T-Bills |
| 1/1/2007 | 12/31/2011 | 51% Russell 3000 / 32% Bloomberg US Govt/Credit Int TR / 12% MSCI EAFE / 5% MSCI US REIT |
| 4/1/2005 | 12/31/2006 | 18% FT Wilshire 5000 Full Cap / 18% S&P 500 / 8% Russell 2000 / 20% Bloomberg US Aggregate TR / 20% Bloomberg US Govt/Credit Int TR / 10% MSCI EAFE / 6% FTSE NAREIT All Equity REIT |
| O&E Pension (e | excl. LCP) | |
| 6/1/2014 | Present | 35% Russell 3000 / 11% MSCI ACWI ex USA / 52% Bloomberg US Govt 1-5 Yr TR / 2% ICE BofA 91 Days T-Bills TR |
| 1/1/2012 | 5/31/2014 | 51% Russell 3000 / 30% Bloomberg US Aggregate TR / 17% MSCI EAFE / 2% 91 Day T-Bills |
| 1/1/2007 | 12/31/2011 | 51% Russell 3000 / 32% Bloomberg US Govt/Credit Int TR / 12% MSCI EAFE / 5% MSCI US REIT |
| 4/1/2005 | 12/31/2006 | 18% FT Wilshire 5000 Full Cap / 18% S&P 500 / 8% Russell 2000 / 20% Bloomberg US Aggregate TR / 20% Bloomberg US Govt/Credit Int TR / 10% MSCI EAFE / 6% FTSE NAREIT All Equity REIT |
| Total Equity (| Composite | |
| 6/1/2014 | Present | 76% Russell 3000 / 24% MSCI ACWI ex USA |
| 1/1/2012 | 5/31/2014 | 75% Russell 3000 / 25% MSCI EAFE |
| U.S. Equity | y Composite | |
| 1/1/2012 | Present | Russell 3000 |
| Global Equ | uity Composite | |
| 12/31/2011 | Present | MSCI ACWI |
| | Equity Composite | |
| 6/1/2014 | Present | MSCI ACWI ex USA |
| 12/31/2011 | 5/31/2014 | MSCI EAFE |
| | come Composite | |
| 9/1/2019 | Present | Sterling Capital Policy Index |
| 6/1/2014 | 8/31/2019 | Bloomberg US Govt 1-5 Yr TR |
| 12/31/2011 | 5/31/2014 | Bloomberg US Aggregate TR |
| • | lents Composite | |
| 12/31/2011 | Present | ICE BofA 91 Days T-Bills TR |

City of Allentown Officers & Employee Pension

Fee Summary

As of September 30, 2023

| Account | Fee Schedule | % of Portfolio | Estimated Annual Fee (\$) | Estimated Annual Fee (%) |
|--------------------------------------|-----------------|----------------|---------------------------|--------------------------|
| Vanguard Equity Income | 0.19% of Assets | 4.0% | \$531 | 0.19% |
| Vanguard Total Stock Market Index | 0.03% of Assets | 27.4% | \$577 | 0.03% |
| Vanguard Mid Cap Index | 0.04% of Assets | 2.0% | \$55 | 0.04% |
| Dodge & Cox Global Stock | 0.62% of Assets | 3.0% | \$1,303 | 0.62% |
| American Funds Int'l Growth & Income | 0.54% of Assets | 4.8% | \$1,827 | 0.54% |
| MFS International Intrinsic Value | 0.61% of Assets | 4.5% | \$1,949 | 0.61% |
| Sterling Capital - Short-Term Bonds | 0.08% of Assets | 39.1% | \$2,195 | 0.08% |
| Govt Obligations MM Fund | 0.30% of Assets | 15.3% | \$3,218 | 0.30% |
| Investment Management Fee | | 100.0% | \$11,654 | 0.17% |

Investment Managers



Vanguard Equity Income

As of September 30, 2023

Manager Summary: Multi-manager fund combines two distinct strategies, both investing primarily in large cap value equities. Wellington Management Co. manages approximately 2/3 of the fund. Vanguard Group manages approximately 1/3 of the fund. Wellington seeks value opportunities in stocks that pay a dividend yield higher than the S&P 500. Vanguard implements a passively-managed approach, seeking to track the performance of a high dividend achievers benchmark. Overall strategy tends to have a higher dividend yield than the S&P 500.

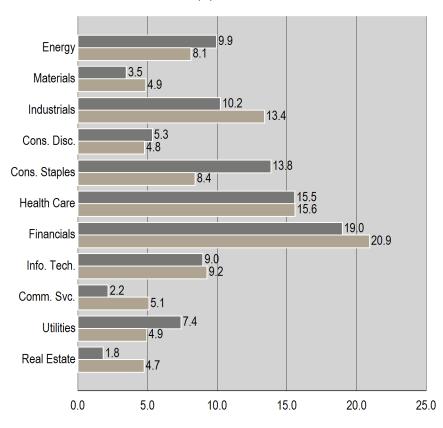
Characteristics

| | | Portfolio | Russell 1000 Value |
|---------------------------------|-----------------------|-----------|-----------------------|
| Number of Holdings | | 196 | 845 |
| Weighted Avg. Market Cap. (\$B) | | 136.8 | 139.9 |
| Median Market Cap. (\$B) | | 37.4 | 12.2 |
| Price To Earnings | | 14.5 | 15.7 |
| Price To Book | | 2.6 | 2.4 |
| Price To Sales | | 1.6 | 1.7 |
| Return on Equity (%) | | 23.2 | 15.8 |
| Yield (%) | | 3.3 | 2.5 |
| | Top Holdings | | |
| JPMORGAN CHASE & CO | | | 3.1% |
| JOHNSON & JOHNSON | | | 2.9% |
| PFIZER INC | | | 2.7% |
| MERCK & CO INC | | | 2.5% |
| CONOCOPHILLIPS | | | 2.5% |
| HOME DEPOT INC. (THE) | | | 2.4% |
| EOG RESOURCES INC. | | | 2.2% |
| PROCTER & GAMBLE CO (THE) | | | 2.0% |
| CISCO SYSTEMS INC | | | 1.9% |
| BROADCOM INC | | | 1.8% |
| Total | | | 24.1% |
| | Market Capitalization | | |

Market Capitalization

| · | Small Cap | Mid Cap | Large Cap |
|------------------------|--------------|------------|--------------|
| Vanguard Equity Income | 0.6% | 22.3% | 77.1% |
| Russell 1000 Value | 2.4% | 32.1% | 65.6% |
| Weight Over/Under | -1.8% | -9.8% | 11.5% |

Sector Allocation (%) vs Russell 1000 Value



Vanguard Total Stock Market Index

As of September 30, 2023

Manager Summary: Passively-managed using index sampling. The fund currently seeks to track the performance of the CRSP US Total Market Index. Diversified among large, mid and small-cap equities across growth and value styles. Fund remains fully invested.

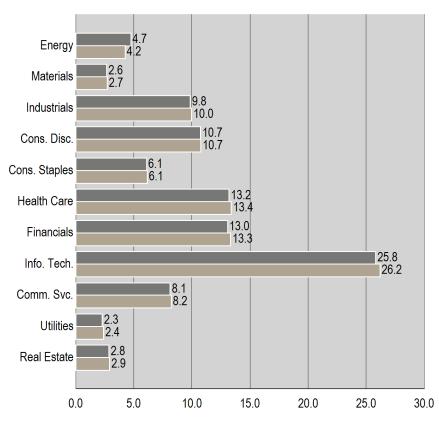
Characteristics

| | Officialities | | |
|---------------------------------|-----------------------|-----------|--------------------------------|
| | | Portfolio | CRSP US Total Market TR USD |
| Number of Holdings | | 3,722 | 3,759 |
| Weighted Avg. Market Cap. (\$B) | | 549.2 | 549.3 |
| Median Market Cap. (\$B) | | 1.2 | 1.3 |
| Price To Earnings | | 21.0 | 21.1 |
| Price To Book | | 3.9 | 4.0 |
| Price To Sales | | 2.2 | 2.2 |
| Return on Equity (%) | | 21.7 | 21.7 |
| Yield (%) | | 1.6 | 1.6 |
| | Top Holdings | | |
| APPLE INC | | | 6.1% |
| MICROSOFT CORP | | | 5.6% |
| AMAZON.COM INC | | | 2.8% |
| NVIDIA CORPORATION | | | 2.4% |
| ALPHABET INC | | | 1.9% |
| TESLA INC | | | 1.6% |
| META PLATFORMS INC | | | 1.6% |
| ALPHABET INC | | | 1.6% |
| BERKSHIRE HATHAWAY INC | | | 1.5% |
| EXXON MOBIL CORP | | | 1.1% |
| Total | | | 26.3% |
| | Market Conitalization | | |

Market Capitalization

| · | Small Cap | Mid Cap | Large Cap |
|-----------------------------------|--------------|------------|--------------|
| Vanguard Total Stock Market Index | 9.5% | 12.9% | 77.6% |
| CRSP US Total Market TR USD | 11.3% | 12.7% | 76.0% |
| Weight Over/Under | -1.8% | 0.2% | 1.6% |

Sector Allocation (%) vs CRSP US Total Market TR USD



Vanguard Mid Cap Index

As of September 30, 2023

Manager Summary: Passively-managed. Seeks to track the performance of the CRSP US Mid Cap Index. Invests in stocks of medium-size U.S. companies. Fund remains fully invested.

Characteristics

| | Portfolio | CRSP US Mid Cap TR USD |
|---------------------------------|-----------|---------------------------|
| Number of Holdings | 339 | 338 |
| Weighted Avg. Market Cap. (\$B) | 26.2 | 26.3 |
| Median Market Cap. (\$B) | 19.1 | 19.1 |
| Price To Earnings | 19.2 | 19.1 |
| Price To Book | 2.9 | 2.9 |
| Price To Sales | 1.9 | 1.9 |
| Return on Equity (%) | 17.7 | 17.7 |
| Yield (%) | 1.8 | 1.8 |

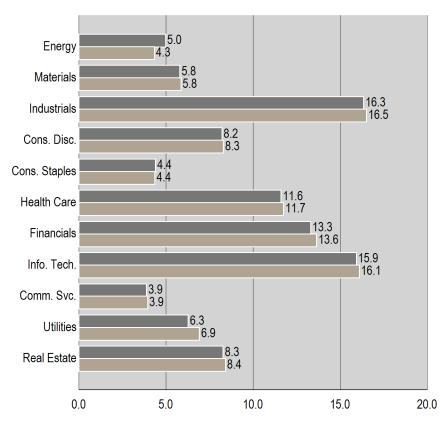
Top Holdings

| . opgo | |
|---------------------------|------|
| AMPHENOL CORP | 0.8% |
| ARTHUR J. GALLAGHER & CO. | 0.8% |
| CARRIER GLOBAL CORP | 0.8% |
| MOTOROLA SOLUTIONS INC | 0.7% |
| PACCAR INC | 0.7% |
| TRANSDIGM GROUP INC | 0.7% |
| ARISTA NETWORKS INC | 0.7% |
| WELLTOWER INC | 0.7% |
| MICROCHIP TECHNOLOGY INC | 0.7% |
| HESS CORP | 0.7% |
| Total | 7.3% |
| | |

Market Capitalization

| · | Small Cap | Mid Cap | Large Cap |
|------------------------|--------------|------------|--------------|
| Vanguard Mid Cap Index | 2.0% | 69.9% | 28.1% |
| CRSP US Mid Cap TR USD | 5.6% | 67.4% | 27.0% |
| Weight Over/Under | -3.6% | 2.5% | 1.1% |

Sector Allocation (%) vs CRSP US Mid Cap TR USD



As of September 30, 2023

Manager Summary: Focuses on identifying large, well-established companies across the globe that trade at a discount to their long-term profit opportunities. Emphasize fundamental research, attempting to understand risks facing businesses over a 3-5-year time horizon. Seeks companies with solid management teams and strong, competitive franchises. Strategy tends to hold deep value stocks that may be out-of-favor in the short-term but offer good value for the long-term investor.

Characteristics MSCI ACWI Portfolio Number of Holdings 83 2,947 Weighted Avg. Market Cap. (\$B) 201.5 408.9 Median Market Cap. (\$B) 41.1 12.1 12.7 Price To Earnings 18.0 Price To Book 2.3 3.3 Price To Sales 1.1 1.8 16.0 21.1 Return on Equity (%) 2.6 2.3 Yield (%) **Top Holdings** ALPHABET INC 4.1% 3.7% SANOFI **GSK PLC** 3.0% OCCIDENTAL PETROLEUM CORP 2.9% CHARTER COMMUNICATIONS INC 2.8% 2.7% SUNCOR ENERGY INC. **COMCAST CORP** 2.7% 2.6% **BANCO SANTANDER SA** OVINTIV INC 2.6% **UBS GROUP AG** 2.4% 29.5% Total **Market Capitalization** Small Mid Large Unclassified Cap Cap Cap 2.7% Dodge & Cox Global Stock 2.6% 19.5% 75.1% MSCI ACWI 7.2% 17.8% 75.1% 0.0% Weight Over/Under -4.5% 1.8% 0.0% 2.7%

Sector Allocation (%) vs MSCI ACWI Energy 5.2 7.1 Materials 7.3 Industrials 6.3 Cons. Disc. 1.2 Cons. Staples 1.8 7.1 18.2 Health Care 11.9 30.0 Financials 15.8 7.1 Info. Tech. 21.6 **12.1** Comm. Svc. 7.5 Utilities 0.0 Real Estate 0.2 0.0 10.0 20.0 30.0

% of % of Region Total % Diff Bench 1.4% 2.9% North America ex U.S. 4.3% **United States** 51.2% 62.3% -11.1% 10.1% Europe Ex U.K. 22.1% 12.1% United Kingdom 9.3% 3.7% 5.6% 0.0% 2.7% -2.7% Pacific Basin Ex Japan 3.2% 5.5% -2.4% Japan **Emerging Markets** 10.6% 10.0% -0.6% Other 0.3% 0.0% -0.3% 100.0% **Total** 100.0% 0.0%

Region Allocation Summary

American Funds Int'l Growth & Income

As of September 30, 2023

Manager Summary: Focuses on investing in established companies that pay dividends. Emphasis on companies that may be relatively resilient during economic hardship. Multiple portfolio managers provide complementary investment styles of contrarian value, relative value and capital appreciation. Strategy tends to have dividend yield higher than the benchmark.

Characteristics MSCI ACWI ex Portfolio **USA** Number of Holdings 261 2.320 Weighted Avg. Market Cap. (\$B) 102.6 85.0 Median Market Cap. (\$B) 25.5 9.1 Price To Earnings 13.3 13.5 Price To Book 2.6 2.4 1.3 1.1 Price To Sales Return on Equity (%) 17.5 15.1 3.4 Yield (%) 3.6 **Top Holdings** ASTRAZENECA PLC 3.3% **NOVO NORDISK A/S** 2.9% **TOTALENERGIES SE** 2.5% TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD 2.4% AIRBUS SE 2.3% 2.3% PHILIP MORRIS INTERNATIONAL INC ASML HOLDING NV 2.2% 1.7% BRITISH AMERICAN TOBACCO PLC SANOFI 1.7% **BAE SYSTEMS PLC** 1.6% 22.8% Total **Market Capitalization** Small Mid Large Unclassified Cap Cap Cap American Funds Int'l Growth & Income 4.9% 9.9% 25.0% 60.2% MSCI ACWI ex USA 16.1% 27.3% 56.6% 0.0% Weight Over/Under -6.2% -2.3% 3.6% 4.9%

6.0 7.5 Energy **5.8** Materials Industrials 10.9 Cons. Disc. **10.6** Cons. Staples 8.4 9.6 10.8 Health Care **18.2** Financials 21.2 11.1 Info. Tech. 6.2 5.4 Comm. Svc. Utilities Real Estate 0.0 5.0 10.0 15.0 20.0 25.0

Sector Allocation (%) vs MSCI ACWI ex USA

| Region | % of Total | % of Bench | % Diff |
|------------------------|---------------|---------------|--------|
| North America ex U.S. | 4.6% | 7.6% | -3.0% |
| United States | 4.6% | 0.0% | 4.6% |
| Europe Ex U.K. | 42.2% | 32.0% | 10.1% |
| United Kingdom | 14.8% | 9.8% | 5.0% |
| Pacific Basin Ex Japan | 4.6% | 7.3% | -2.7% |
| Japan | 8.1% | 14.7% | -6.6% |
| Emerging Markets | 18.2% | 28.0% | -9.8% |
| Other | 3.0% | 0.7% | 2.3% |
| Total | 100.0% | 100.0% | 0.0% |

Region Allocation Summary

MFS International Intrinsic Value

As of September 30, 2023

Manager Summary: The strategy seeks sustainable returns in various market environments. Team focuses on the durability of returns and intrinsic value: quality - company's ability to generate returns above its cost of capital on a sustainable basis, valuation - stocks that are cheap on a wide range of valuation metrics, and improvement potential - potential value from improving structural conditions. Portfolio construction process is based on bottom-up, fundamental research. Sector, industry, country, and regional weightings are generally the residual of this process. Portfolio consists of 85 to 100 companies and is fully invested at all times.

Characteristics MSCI EAFE Portfolio Number of Holdings 93 795 Weighted Avg. Market Cap. (\$B) 67.7 81.8 Median Market Cap. (\$B) 19.8 12.1 16.2 Price To Earnings 13.9 Price To Book 2.7 2.4 Price To Sales 2.2 1.2 18.1 Return on Equity (%) 15.7 2.8 3.5 Yield (%) **Top Holdings** SCHNEIDER ELECTRIC SA 3.6% 3.1% FRANCO-NEVADA CORP **TOTALENERGIES SE** 3.1% CADENCE DESIGN SYSTEMS INC 3.0% LEGRAND 2.7% 2.4% SAMSUNG ELECTRONICS CO LTD DEUTSCHE BOERSE AG 2.1% WOODSIDE ENERGY GROUP LTD 2.0% 2.0% NESTLE SA, CHAM UND VEVEY **DIAGEO PLC** 1.9% 26.0% **Total Market Capitalization** Small Mid Large Unclassified Cap Cap Cap 7.3% MFS International Intrinsic Value 15.2% 29.8% 47.7% MSCI FAFE 10.5% 27.5% 62.1% 0.0% Weight Over/Under 4.7% 2.4% -14.4% 7.3%

Sector Allocation (%) vs MSCI EAFE 4.8 6.2 Energy **11.4** Materials 7.5 20.2 Industrials 16.0 3.0 Cons. Disc. 12.0 12.0 Cons. Staples 5.4 Health Care 13.4 **17.0** Financials Info. Tech. Comm. Svc. 0.0 Utilities 0.0 3.4 Real Estate 1.3 0.0 5.0 10.0 15.0 20.0 25.0

Region Allocation Summary % of % of Region Total % Diff Bench 0.0% North America ex U.S. 4.7% 4.7% **United States** 8.8% 0.0% 8.8% Europe Ex U.K. 54.8% 49.7% 5.0% United Kingdom 8.3% 15.3% -7.0% 2.0% -9.3% Pacific Basin Ex Japan 11.3% 15.5% 22.9% -7.4% Japan **Emerging Markets** 0.0% 5.1% 5.1% Other 0.8% 0.7% 0.1% 100.0% **Total** 100.0% 0.0%

Morgan Stanley Prime Property Fund

As of September 30, 2023

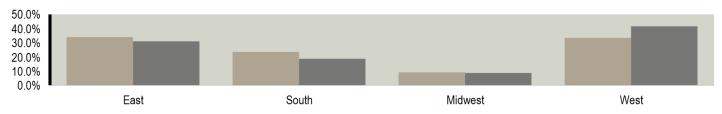
Characteristics

| Fund GAV (\$MM) | \$42,360.7 |
|-----------------------|------------|
| Fund NAV (\$MM) | \$33,032.9 |
| Cash (% of NAV) | 0.1% |
| # of Investments | 540 |
| % in Top 10 by NAV | 14.1% |
| Leverage % | 22.9% |
| Occupancy | 92.4% |
| # of MSAs | 53 |
| 1-Year Dividend Yield | 4.0% |
| As of Date | 30-Sep-23 |
| | |

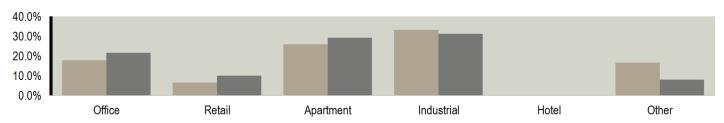
| Strategy B | reakd | lown |
|------------|-------|------|
|------------|-------|------|

| | % of Portfolio | Top Five Metro Areas | % of NAV |
|-------------------------------|----------------|-----------------------------|------------|
| Pre-Development | 0.6% | Los Angeles, CA | 13.1% |
| Development | 2.1% | Boston, MA | 8.4% |
| Initial Leasing | 5.6% | Miami, FL | 8.2% |
| Operating | 91.2% | Chicago, IL | 8.0% |
| Re-Development | 0.5% | New York, NY | 7.6% |
| Other | 0.0% | | |
| Queue In: | | Queue Out: | |
| Contribution Queue (\$MM) | \$0.00 | Redemption Queue (\$MM) | \$5,064.96 |
| Anticipated Drawdown (Months) | 0 | Anticipated Payout (Months) | 0 |

Regional Breakdown by NAV (Excluding Cash & Debt)



Property Type Breakdown by NAV (Excluding Cash & Debt)



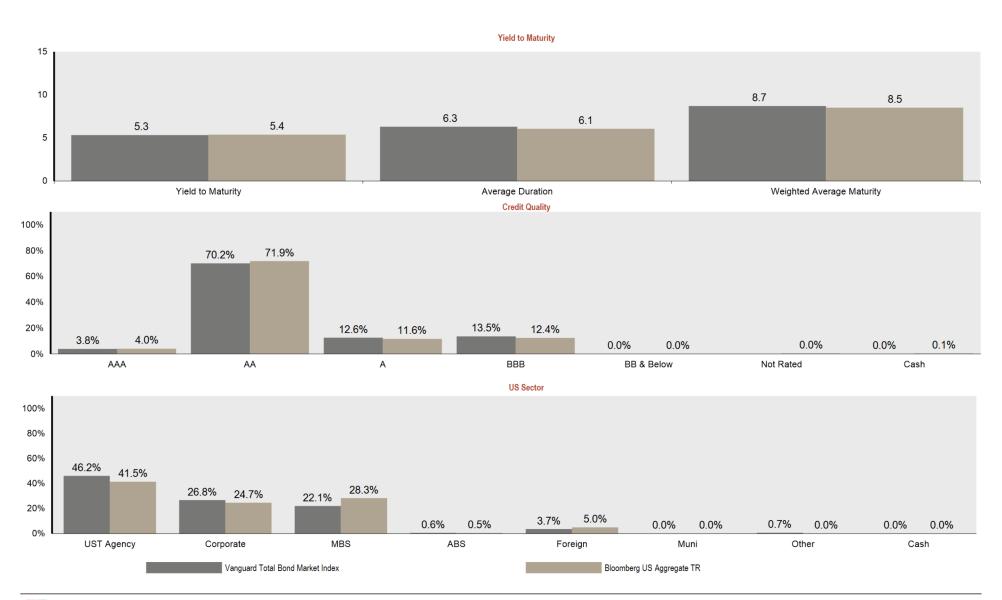
Property Size Breakdown by NAV (Excluding Cash & Debt)



Vanguard Total Bond Market Index

As of September 30, 2023

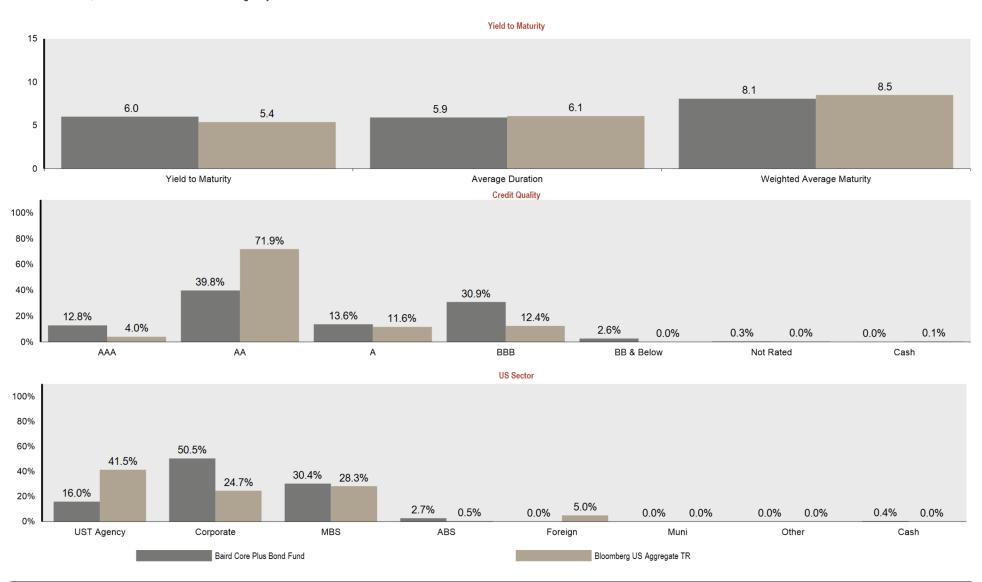
Manager Summary: Passively-managed using index sampling. Seeks to track the performance of the Barclays Capital U.S. Aggregate Bond Index. Invests in a broadly diversified portfolio of investment-grade U.S. Bonds. Intermediate duration portfolio.



Baird Core Plus Bond Fund

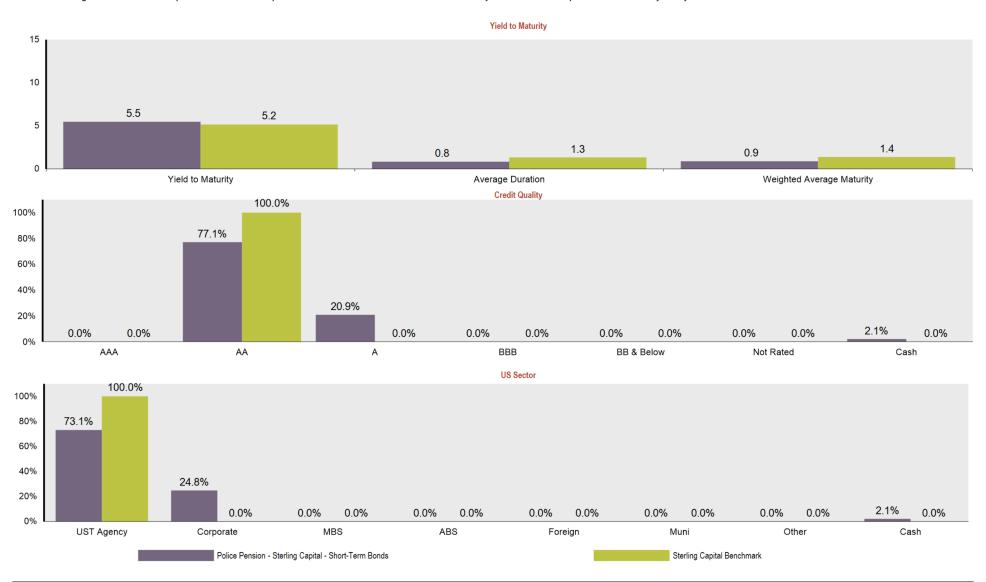
As of September 30, 2023

Manager Summary: A spread security-focused (corporate and securitized bonds), moderate-risk Aggregate Plus strategy. It typically maintains neutral duration and focuses more on security selection. It derives most of its plus sector alpha from credit, CMBS and non-agency RMBS. It typically allocates 40-50% to investment grade corporate bonds, 0-5% to high yield corporate bonds, and 5-15% to CMBS and non-agency RMBS.



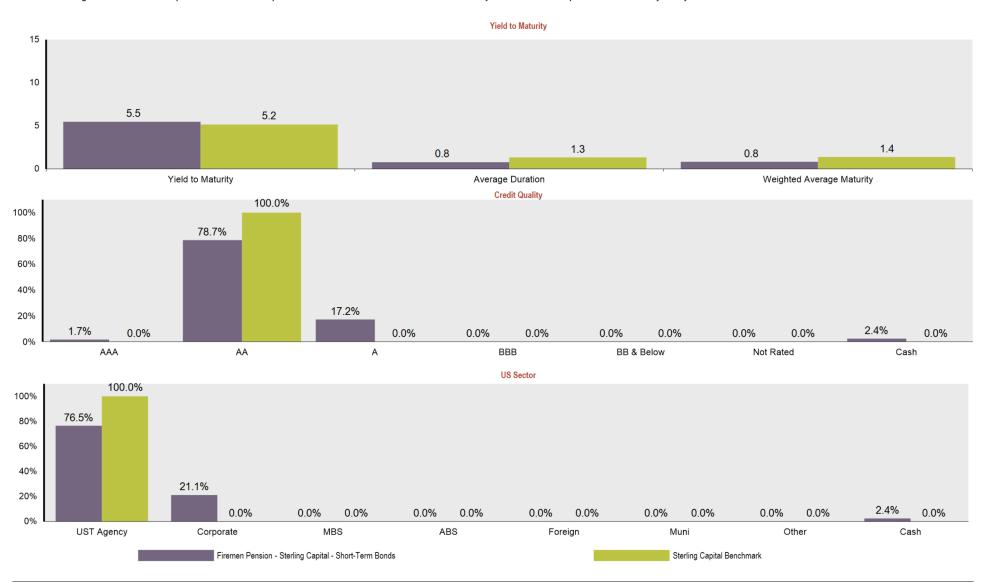
Sterling Capital - Short-Term Bonds

As of September 30, 2023



Sterling Capital - Short-Term Bonds

As of September 30, 2023



Sterling Capital - Short-Term Bonds

As of September 30, 2023

