## AON

## Quarterly Investment Review

Town of Wilton OPEB | First Quarter 2023


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## Executive Summary

## AON



## Thought Leadership Highlights

## Qualified Defined Benefit

| Topic | Article | Link |
| :---: | :---: | :---: |
| Aon United | SECURE 2.0 Major Provisions Impacting Defined Benefit Plans | Link |
| Market View | Federal Reserve Outlook for 2023 | Link |
| Market View | Quarterly Market Review and Outlook Video (access code 'aon!') | Link to Article Link to Video |
| Quarterly Themes | Key Topics for DB Plans (3-minute video, passcode 'aon!') | Link to Video |
| Pension Risk | Client Video on key topics for Corporate DB Plans (Q4 2022) | Link to Video |
| Pension Risk | Liability-Hedging Portfolio Update for Corporate Pensions | Link |
| Pension Risk | Pension Risk Survey Report | Link |
| Pension Risk | Client Video: Overview of Enhanced LDI (eLDI) (access code 'aon!') | Link to White Paper Link to Video |
| Pension Risk | U.S. Pension Risk Transfer (PRT) Annuity Market Update | Link |
| Asset Allocation | Global Equity | Link |
| Asset Allocation | Managing Through Today's Environment for Illiquid Assets: 3 Questions with Eric Friedman | Link |
| Asset Allocation | Client Video: US vs non-US Equity (access code 'aon!') | Link to Video |
| Asset Allocation | The Strength of the U.S. Equity Market and its Impact on Equity Allocations | Link |
| Asset Allocation | White Paper: Why Diversify? | Link |
| Strategy Review | Why Securities Lending is Right, Now | Link |
| Strategy Review | The 'Case' for Litigation Finance | Link |
| Strategy Review | Private Credit: 3 Questions with Galina Kalcheva | Link |
| Strategy Review | Private Credit 101 (access code 'aon!') | Link to Video |
| Strategy Review | Conviction in Equity Investing Revisited | Request from Consultant |
| Legal \& Compliance | Legal \& Compliance quarterly update newsletter (5-minute summary, access code 'aon!') | Link to Article Link to Video |

[^0]
## Market Highlights

SHORT TERM RETURNS
AS OF 03/31/2023


## Market Highlights

LONG TERM ANNUALIZED RETURNS
AS OF 03/31/2023


[^1]Past performance is no guarantee of future results. Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect fees and expenses. Please see appendix for index definitions and other general disclosures.


## Market Highlights

| Returns of the Major Capital Markets |  |  |  |  |  |  | Returns of the Major Capital Markets |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | First Quarter | YTD | 1-Year | 3-Year ${ }^{1}$ | Period Ending 03/31/202 |  | First Quarter |  | YT | 1-Year |  | Period Ending 03/31/2023 |  |  |
|  |  |  |  |  | 5-Year ${ }^{1}$ | 10-Year ${ }^{1}$ |  |  | 3 -Year ${ }^{1}$ |  |  | 5 -Year ${ }^{1}$ | 10-Year ${ }^{1}$ |
| Equity |  |  |  |  |  |  | Fixed Income |  |  |  |  |  |  |  |  |
| MSCI All Country World IMI | 6.95\% | 6.95\% | -7.68\% | 15.64\% | 6.58\% | 7.95\% | Bloomberg Global Aggregate | 3.01\% | 3.01\% | -8.07\% | -3.43\% |  | -1.34\% | 0.07\% |
| MSCI All Country World | 7.31\% | 7.31\% | -7.44\% | 15.36\% | 6.93\% | 8.06\% | Bloomberg U.S. Aggregate | 2.96\% | 2.96\% | -4.78\% | -2.77\% |  | 0.91\% | 1.36\% |
| Dow Jones U.S. Total Stock Market | 7.24\% | 7.24\% | -8.77\% | 18.34\% | 10.32\% | 11.64\% | Bloomberg U.S. Long Gov't | 6.16\% | 6.16\% | -15.94\% | -11.25\% |  | -0.36\% | 1.44\% |
| Russell 3000 | 7.18\% | 7.18\% | -8.58\% | 18.48\% | 10.45\% | 11.73\% | Bloomberg U.S. Long Credit | 5.42\% |  |  |  |  |  |  |
| S\&P 500 | 7.50\% | 7.50\% | -7.73\% | 18.60\% | 11.19\% | 12.24\% | Bloomberg U.S. Long Credit | 5.42\% | 5.42\% | -11.28\% | -2.57\% |  | 1.07\% | 2.85\% |
| Russell 2000 | 2.74\% | 2.74\% | -11.61\% | 17.51\% | 4.71\% | 8.04\% | Bloomberg U.S. Long Gov't/Credit | 5.76\% | 5.76\% | -13.40\% | -6.33\% |  | 0.63\% | 2.35\% |
| MSCI All Country World ex-U.S. IMI | 6.56\% | 6.56\% | -5.84\% | 12.20\% | 2.35\% | 4.28\% | Bloomberg U.S. TIPS | 3.34\% | 3.34\% | -6.06\% | 1.75\% |  | 2.94\% | 1.49\% |
| MSCI All Country World ex-U.S. | 6.87\% | 6.87\% | -5.07\% | 11.80\% | 2.47\% | 4.17\% | Bloomberg U.S. High Yield | 3.57\% | 3.57\% | -3.34\% | 5.91\% |  | 3.21\% | 4.10\% |
| MSCIEAFE | 8.47\% | 8.47\% | -1.38\% | 12.99\% | 3.52\% | 5.00\% | Bloomberg Global Treasury ex U.S. | 3.11\% | 3.11\% | -11.29\% | -5.37\% |  | -3.62\% | -1.20\% |
| MSCI EAFE (Local Currency) | 7.49\% | 7.49\% | 3.84\% | 14.63\% | 6.25\% | 7.34\% | JP Morgan EMBI Global (Emerging Market | 2.25\% | 2.25\% | -5.86\% | 0.31\% |  | -0.20\% | 1.81\% |
| MSCI Emerging Markets | 3.96\% | 3.96\% | -10.70\% | 7.83\% | -0.91\% | 2.00\% | Commodities |  |  |  |  |  |  |  |
| Equity Factors |  |  |  |  |  |  | Bloomberg Commodity Index | -5.36\% | -5.36\% | -12.49\% | 20.82\% |  | 5.36\% | -1.72\% |
| MSCI World Minimum Volatility (USD) | 2.30\% | 2.30\% | -4.52\% | 9.17\% | 6.34\% | 7.97\% | Goldman Sachs Commodity Index | -4.94\% | -4.94\% | -10.04\% | 30.53\% |  | 4.93\% | -3.84\% |
| MSCI World High Dividend Yield | 1.93\% | 1.93\% | -2.52\% | 13.77\% | 6.65\% | 7.21\% | Hedge Funds |  |  |  |  |  |  |  |
| MSCI World Quality | 10.70\% | 10.70\% | -5.61\% | 16.41\% | 11.63\% | 12.01\% | HFRI Fund-Weighted Composite ${ }^{2}$ | 1.18\% | 1.18\% | -2.06\% | 10.55\% |  | 4.69\% | 4.44\% |
| MSCI World Momentum | -1.16\% | -1.16\% | -13.43\% | 12.17\% | 8.01\% | 10.76\% | HFRI Fund of Funds ${ }^{2}$ | 1.57\% | 1.57\% | -1.10\% | 7.47\% |  | 3.27\% | 3.33\% |
| MSCI World Enhanced Value | 5.79\% | 5.79\% | -2.91\% | 15.20\% | 3.23\% | 7.04\% | Real Estate |  |  |  |  |  |  |  |
| MSCI World Equal Weighted | 6.10\% | 6.10\% | -6.51\% | 14.95\% | 4.56\% | 7.19\% | NAREIT U.S. Equity REITS | 2.68\% | 2.68\% | -19.22\% | 12.08\% |  | 6.02\% | 5.97\% |
| MSCI World Index Growth | 15.18\% | 15.18\% | -9.61\% | 16.18\% | 10.66\% | 11.17\% | FTSE Global Core Infrastructure Index | -1.05\% | -1.05\% | -10.00\% | 9.95\% |  | 7.25\% | 7.32\% |
| MSCI USA Minimum Volatility (USD) | 1.30\% | 1.30\% | -4.42\% | 12.42\% | 9.11\% | 10.62\% | Private Equity |  |  | -10.00\% |  |  |  |  |
| MSCI USA High Dividend Yield | -0.72\% | -0.72\% | -2.99\% | 14.60\% | 7.69\% | 10.06\% | Private Equity ${ }^{\text {Burgiss Private }}$ G Global Private Equity ${ }^{3}$ |  |  |  |  |  |  |  |
| MSCI USA Quality | 10.48\% | 10.48\% | -6.28\% | 16.40\% | 12.38\% | 13.61\% | Burgiss Private iQ Global Private Equity ${ }^{\text {a }}$ MSCI Indices show net total returns th |  |  |  | 21.00\% |  | 18.52\% | 15.82\% |
| MSCI USA Momentum | -4.22\% | -4.22\% | -14.60\% | 10.80\% | 7.25\% | 12.31\% | ${ }_{1}$ MSCI Indices show net total returns th | ughout th | rt. All | dices show | s total re |  |  |  |
| MSCI USA Enhanced Value | 2.52\% | 2.52\% | -8.37\% | 17.09\% | 5.51\% | 9.68\% | Periods are annualized. |  |  |  |  |  |  |  |
| MSCI USA Equal Weighted | 4.01\% | 4.01\% | -9.18\% | 19.37\% | 8.49\% | 10.50\% | ${ }^{2}$ Latest 5 months of HFR data are est | mated by HFR | d may ch | in the fut |  |  |  |  |
| MSCI USA Growth | 17.40\% | 17.40\% | -12.23\% | 18.63\% | 13.75\% | 14.52\% | ${ }^{3}$ Burgiss Private iQ Global Private Equ | ity data is as | une 30, 2 |  |  |  |  |  |

Past performance is no guarantee of future results. Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect fees and expenses. Please see appendix for index definitions and other general disclosures.

## Total Plan Asset Summary

As of March 31, 2023


| Summary of Cash Flows |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\stackrel{1}{\text { Quarter }}$ | $\begin{gathered} 1 \\ \text { Year } \end{gathered}$ | Since Inception | Inception Date |
| OPEB Plan |  |  |  | 05/01/2012 |
| Beginning Market Value | 9,341,744 | 10,523,266 | 2,652,035 |  |
| + Additions / Withdrawals | 115,805 | 85,829 | 3,148,213 |  |
| + Investment Earnings | 483,419 | -668,126 | 4,140,720 |  |
| = Ending Market Value | 9,940,968 | 9,940,968 | 9,940,968 |  |

## Total Plan Performance Summary

As of March 31, 2023


## Asset Allocation \& Performance

As of March 31, 2023

|  | Allocation |  |  | Performance \% |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Market Value \$ | \% | Policy | $\begin{gathered} 1 \\ \text { Quarter } \end{gathered}$ | $\begin{gathered} 1 \\ \text { Year } \end{gathered}$ | $\begin{gathered} 3 \\ \text { Years } \end{gathered}$ | $\begin{gathered} 5 \\ \text { Years } \end{gathered}$ | $\begin{gathered} 7 \\ \text { Years } \end{gathered}$ | Since Inception | Inception Date |
| OPEB Plan | 9,940,968 | 100.0 | 100.0 | 5.2 | -6.4 | 8.7 | 4.8 | 6.2 | 6.1 | 05/01/2012 |
| Wilton OPEB Plan Benchmark |  |  |  | 4.8 | -6.2 | 7.4 | 4.7 | 5.6 | 5.7 |  |
| Fixed Income | 3,846,380 | 38.7 | 40.0 | 3.0 | -3.8 | -0.8 | 0.9 | 1.8 | 2.5 | 07/01/2010 |
| OPEB Fixed Income Composite Benchmark |  |  |  | 3.0 | -4.8 | -2.7 | 0.9 | 0.9 | 2.0 |  |
| Vanguard Total Bond Market Index Adm | 956,028 | 9.6 |  | 3.2 (47) | -4.7 (29) | -2.8 (85) | 0.9 (56) | 0.9 (73) | -0.4 (63) | 06/01/2019 |
| Blmbg. U.S. Aggregate |  |  |  | 3.0 (72) | -4.8 (35) | -2.8 (84) | 0.9 (57) | 0.9 (73) | -0.4 (64) |  |
| IM U.S. Broad Market Core Fixed Income (MF) Median |  |  |  | 3.2 | -5.0 | -1.8 | 1.0 | 1.2 | -0.2 |  |
| Metropolitan West Total Return Bond PI | 755,931 | 7.6 |  | 3.5 (23) | -5.8 (76) | -2.3 (92) | 1.1 (68) | 1.1 (83) | -0.3 (77) | 06/01/2019 |
| Blmbg. U.S. Aggregate |  |  |  | 3.0 (77) | -4.8 (40) | -2.8 (98) | 0.9 (80) | 0.9 (99) | -0.4 (82) |  |
| IM U.S. Broad Market Core+ Fixed Income (MF) Median |  |  |  | 3.3 | -5.1 | -0.7 | 1.4 | 1.6 | 0.2 |  |
| PGIM Total Return Bond R6 | 579,009 | 5.8 |  | 3.2 (63) | -6.0 (86) | -1.1 (68) | 1.0 (76) | 1.7 (46) | 1.9 (37) | 12/01/2015 |
| Blmbg. U.S. Aggregate |  |  |  | 3.0 (77) | -4.8 (40) | -2.8 (98) | 0.9 (80) | 0.9 (99) | 1.2 (92) |  |
| IM U.S. Broad Market Core+ Fixed Income (MF) Median |  |  |  | 3.3 | -5.1 | -0.7 | 1.4 | 1.6 | 1.8 |  |
| PIMCO Income Fund | 1,555,413 | 15.6 |  | 2.6 (59) | -1.3 (15) | 3.6 (30) | 2.3 (21) | 3.8 (10) | -1.5 (18) | 02/01/2021 |
| Blmbg. U.S. Aggregate |  |  |  | 3.0 (44) | -4.8 (59) | -2.8 (94) | 0.9 (70) | 0.9 (92) | -5.3 (80) |  |
| IM Multi-Sector General Bond (MF) Median |  |  |  | 2.8 | -4.4 | 1.9 | 1.3 | 2.3 | -3.2 |  |

## Asset Allocation \& Performance

As of March 31, 2023

|  | Allocation |  |  | Performance \% |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Market Value \$ | \% | Policy \% | $\begin{gathered} 1 \\ \text { Quarter } \end{gathered}$ | $\begin{gathered} 1 \\ \text { Year } \end{gathered}$ | $\begin{gathered} 3 \\ \text { Years } \end{gathered}$ | $\begin{gathered} 5 \\ \text { Years } \end{gathered}$ | $\begin{gathered} 7 \\ \text { Years } \end{gathered}$ | Since Inception | Inception Date |
| Domestic Equity | 3,288,772 | 33.1 | 30.0 | 7.2 | -8.8 | 18.3 | 10.4 | 11.9 | 13.3 | 07/01/2010 |
| OPEB Domestic Equity Benchmark |  |  |  | 7.2 | -8.8 | 18.4 | 10.4 | 11.9 | 13.3 |  |
| Vanguard Total Stock Market Index Adm | 3,288,772 | 33.1 |  | 7.2 (29) | -8.8 (75) | 18.3 (47) | 10.4 (24) | 11.9 (22) | 12.9 (15) | 01/01/2012 |
| Vanguard Spliced Total Stock Market Index * |  |  |  | 7.2 (29) | -8.8 (74) | 18.4 (46) | 10.4 (23) | 11.9 (22) | 12.9 (15) |  |
| IM U.S. Multi-Cap Core Equity (MF) Median |  |  |  | 5.9 | -7.1 | 18.1 | 9.1 | 10.6 | 11.8 |  |
| International Equity | 1,847,755 | 18.6 | 20.0 | 8.2 | -4.0 | 12.5 | 3.0 | 6.6 | 6.7 | 07/01/2010 |
| OPEB International Equity Composite Benchmark |  |  |  | 6.6 | -5.4 | 12.1 | 2.5 | 5.9 | 5.6 |  |
| Vanguard Total International Stock Index Adm | 969,737 | 9.8 |  | 6.7 (83) | -4.6 (79) | 12.7 (57) | 2.5 (75) | 6.0 (56) | 5.0 (64) | 05/01/2012 |
| Vanguard Spliced Total International Stock Index ** |  |  |  | 6.4 (84) | -5.7 (87) | 12.5 (59) | 2.6 (74) | 6.0 (56) | 5.0 (64) |  |
| IM International Large Cap Core Equity (MF) Median |  |  |  | 8.6 | -2.4 | 13.2 | 3.4 | 6.1 | 5.6 |  |
| American Funds EuroPacific Growth R6 | 878,018 | 8.8 |  | 9.9 (19) | -3.3 (69) | 12.1 (62) | 3.3 (59) | 7.0 (16) | 4.8 (1) | 09/01/2014 |
| MSCI AC World ex USA Index (Net) |  |  |  | 6.9 (81) | -5.1 (81) | 11.8 (70) | 2.5 (75) | 5.9 (59) | 2.9 (68) |  |
| IM International Large Cap Core Equity (MF) Median |  |  |  | 8.6 | -2.4 | 13.2 | 3.4 | 6.1 | 3.3 |  |
| Real Estate | 553,169 | 5.6 | 5.0 | 2.4 | -18.0 | 10.7 | 6.3 | 4.2 | 8.7 | 07/01/2010 |
| OPEB Real Estate Benchmark |  |  |  | 1.7 | -19.4 | 10.2 | 6.3 | 5.0 | 9.5 |  |
| Cohen \& Steers Institutional Realty Shares | 553,169 | 5.6 |  | 2.4 (56) | -18.0 (22) | 11.5 (30) | 7.9 (5) | 5.9 (4) | 4.8 (21) | 02/01/2021 |
| FTSE NAREIT All Equity REITs |  |  |  | 1.7 (80) | -19.4 (38) | 10.2 (58) | 6.3 (37) | 5.0 (19) | 3.6 (48) |  |
| IM Real Estate Sector (MF) Median |  |  |  | 2.6 | -19.8 | 10.6 | 5.7 | 4.1 | 3.5 |  |

## Asset Allocation \& Performance

As of March 31, 2023

|  | Allocation |  |  | Performance \% |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Market Value \$ | \% | Policy | $\begin{gathered} 1 \\ \text { Quarter } \end{gathered}$ | $\begin{gathered} 1 \\ \text { Year } \end{gathered}$ | $\begin{gathered} 3 \\ \text { Years } \end{gathered}$ | $\begin{gathered} 5 \\ \text { Years } \end{gathered}$ | $\begin{gathered} 7 \\ \text { Years } \end{gathered}$ | Since Inception | Inception Date |
| Total Short Term Liquidity | 404,892 | 4.1 | 5.0 | 0.0 | 0.4 | 0.3 | 0.8 | 0.7 | 0.4 | 01/01/2012 |
| Allspring Government MM Fund | 42,195 | 0.4 |  | 0.0 | 1.2 | 0.6 | 1.1 | 1.0 | 0.6 | 04/01/2012 |
| 90 Day U.S. Treasury Bill |  |  |  | 1.1 | 2.5 | 0.9 | 1.4 | 1.2 | 0.8 |  |
| Webster Cash | 362,697 | 3.6 |  |  |  |  |  |  |  |  |

## Asset Allocation \& Performance

Calendar Year Performance

|  | Performance \% |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 |
| OPEB Plan | -16.4 | 10.8 | 14.7 | 18.6 | -4.9 | 14.3 | 7.2 | -0.5 | 6.4 |
| Wilton OPEB Plan Benchmark | -15.2 | 10.3 | 12.0 | 18.5 | -4.5 | 13.1 | 6.5 | -0.3 | 6.3 |
| Fixed Income | -11.7 | -0.3 | 6.4 | 8.2 | 0.0 | 4.7 | 5.3 | -0.3 | 4.1 |
| OPEB Fixed Income Composite Benchmark | -13.0 | -1.5 | 7.7 | 8.7 | -0.1 | 3.5 | 2.9 | 0.6 | 5.5 |
| Vanguard Short-Term Inflation Protection Adm | -2.8 (8) | 5.3 (70) | 5.0 (93) | 4.8 (89) | 0.5 (5) | 0.8 (85) | 2.7 (95) | -0.2 (14) | -1.2 (81) |
| Blmbg. U.S. TIPS 0-5 Year | -2.7 (5) | 5.3 (66) | 5.1 (91) | 4.8 (89) | 0.6 (3) | 0.9 (82) | 2.8 (91) | 0.0 (4) | -1.1 (79) |
| IM U.S. TIPS (MF) Median | -11.7 | 5.5 | 10.2 | 8.2 | -1.3 | 2.9 | 4.6 | -1.7 | 3.1 |
| Vanguard Total Bond Market Index Adm | -13.2 (37) | -1.7 (69) | 7.7 (63) | 8.7 (61) | 0.0 (27) | 3.6 (63) | 2.6 (67) | 0.4 (51) | 5.9 (48) |
| Blmbg. U.S. Aggregate | -13.0 (30) | -1.5 (62) | 7.5 (71) | 8.7 (61) | 0.0 (24) | 3.5 (63) | 2.6 (66) | 0.5 (37) | 6.0 (39) |
| IM U.S. Broad Market Core Fixed Income (MF) Median | -13.4 | -1.3 | 8.2 | 9.0 | -0.4 | 3.9 | 3.0 | 0.4 | 5.9 |
| Metropolitan West Total Return Bond PI | -14.7 (81) | -1.1 (71) | 9.2 (44) | 9.2 (61) | 0.3 (19) | 3.5 (88) | 2.6 (98) | 0.2 (35) | 6.2 (34) |
| Blmbg. U.S. Aggregate | -13.0 (41) | -1.5 (84) | 7.5 (76) | 8.7 (71) | 0.0 (28) | 3.5 (86) | 2.6 (94) | 0.5 (24) | 6.0 (38) |
| IM U.S. Broad Market Core+ Fixed Income (MF) Median | -13.4 | -0.7 | 8.8 | 9.7 | -0.7 | 4.8 | 4.1 | 0.1 | 5.1 |
| PGIM Total Return Bond R6 | -14.9 (85) | -1.2 (73) | 8.1 (64) | 11.1 (17) | -0.6 (46) | 6.7 (5) | 4.8 (35) | 0.1 (51) | 7.3 (17) |
| Blmbg. U.S. Aggregate | -13.0 (41) | -1.5 (84) | 7.5 (76) | 8.7 (71) | 0.0 (28) | 3.5 (86) | 2.6 (94) | 0.5 (24) | 6.0 (38) |
| IM U.S. Broad Market Core+ Fixed Income (MF) Median | -13.4 | -0.7 | 8.8 | 9.7 | -0.7 | 4.8 | 4.1 | 0.1 | 5.1 |
| Domestic Equity | -19.5 | 25.7 | 21.0 | 30.8 | -5.2 | 21.2 | 12.7 | 0.5 | 12.6 |
| OPEB Domestic Equity Benchmark | -19.5 | 25.7 | 21.0 | 30.8 | -5.2 | 21.2 | 12.7 | 0.4 | 12.6 |
| Vanguard Total Stock Market Index Adm | -19.5 (68) | 25.7 (52) | 21.0 (25) | 30.8 (38) | -5.2 (32) | 21.2 (50) | 12.7 (27) | 0.4 (36) | 12.6 (34) |
| Vanguard Spliced Total Stock Market Index | -19.5 (67) | 25.7 (52) | 21.0 (24) | 30.8 (37) | -5.2 (32) | 21.2 (49) | 12.7 (27) | 0.4 (35) | 12.6 (33) |
| IM U.S. Multi-Cap Core Equity (MF) Median | -17.7 | 25.8 | 16.4 | 29.7 | -6.3 | 21.2 | 10.5 | -0.7 | 11.2 |

## Asset Allocation \& Performance

Calendar Year Performance

|  | Performance \% |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2022 | 2021 | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 |
| International Equity | -19.3 | 5.7 | 18.6 | 24.4 | -14.7 | 29.3 | 3.0 | -2.4 | 0.2 |
| OPEB International Equity Composite Benchmark | -16.1 | 8.3 | 10.9 | 21.7 | -14.4 | 27.3 | 4.6 | -5.0 | -3.4 |
| Vanguard Total International Stock Index Adm | -16.0 (62) | 8.6 (81) | 11.3 (27) | 21.5 (65) | -14.4 (51) | 27.6 (20) | 4.7 (14) | -4.3 (70) | -4.2 (31) |
| Vanguard Spliced Total International Stock Index | -16.1 (64) | 8.8 (81) | 11.2 (28) | 21.8 (62) | -14.6 (55) | 27.4 (21) | 4.7 (14) | -4.3 (70) | -3.4 (23) |
| IM International Large Cap Core Equity (MF) Median | -14.8 | 11.3 | 9.0 | 22.1 | -14.4 | 25.3 | 1.1 | -0.9 | -5.6 |
| American Funds EuroPacific Growth R6 | -22.7 (99) | 2.8 (99) | 25.3 (1) | 27.4 (13) | -14.9 (59) | 31.2 (6) | 1.0 (51) | -0.5 (29) | -2.3 (12) |
| MSCI AC World ex USA Index (Net) | -16.0 (62) | 7.8 (84) | 10.7 (32) | 21.5 (65) | -14.2 (48) | 27.2 (23) | 4.5 (18) | -5.7 (77) | -3.9 (27) |
| IM International Large Cap Core Equity (MF) Median | -14.8 | 11.3 | 9.0 | 22.1 | -14.4 | 25.3 | 1.1 | -0.9 | -5.6 |
| Real Estate | -24.7 | 40.1 | -4.8 | 28.9 | -5.9 | 4.9 | 8.5 | 2.4 | 30.3 |
| OPEB Real Estate Benchmark | -24.9 | 41.3 | -5.1 | 28.7 | -4.0 | 8.7 | 8.6 | 2.8 | 28.0 |
| Vanguard Real Estate Index Fund Adm | -26.2 (63) | 40.4 (63) | -4.7 (50) | 28.9 (32) | -5.9 (61) | 4.9 (65) | 8.5 (23) | 2.4 (59) | 30.3 (40) |
| Vanguard Real Estate Spliced Index | -26.1 (55) | 40.6 (59) | -4.6 (48) | 29.0 (29) | -5.9 (59) | 5.1 (64) | 8.6 (23) | 2.5 (55) | 30.4 (39) |
| IM Real Estate Sector (MF) Median | -26.1 | 41.3 | -4.7 | 27.2 | -5.1 | 6.0 | 7.0 | 2.9 | 30.1 |
| Total Short Term Liquidity | 0.4 | 0.5 | 0.2 | 1.8 | 1.2 | 0.4 | 0.2 | 0.1 | 0.0 |
| Allspring Government MM Fund | 1.2 (92) | 0.6 (1) | 0.4 (49) | 2.1 (25) | 1.6 (72) | 0.8 (40) | 0.3 (30) | 0.1 (25) | 0.0 (32) |
| 90 Day U.S. Treasury Bill | 1.5 (60) | 0.0 (11) | 0.7 (2) | 2.3 (12) | 1.9 (20) | 0.9 (21) | 0.3 (37) | 0.0 (32) | 0.0 (17) |
| IM U.S. Taxable Money Market (MF) Median | 1.5 | 0.0 | 0.4 | 2.1 | 1.7 | 0.7 | 0.2 | 0.0 | 0.0 |

## Total Fund Attribution

1 Quarter Ending March 31, 2023


Total Value Added: 0.33\%


## Total Fund Attribution

1 Year Ending March 31, 2023


## Total Fund Attribution

3 Years Ending March 31, 2023


## Total Fund Attribution

5 Years Ending March 31, 2023


## Risk Profile

As of March 31, 2023


| 5 Years Historical Statistics |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Active Return | Tracking Error | Information Ratio | R-Squared | Sharpe Ratio | Alpha | Beta | Return | Standard Deviation | Actual Correlation |
| OPEB Plan | 0.24 | 1.36 | 0.18 | 0.99 | 0.34 | -0.22 | 1.09 | 4.84 | 12.00 | 1.00 |
| Wilton OPEB Plan Benchmark | 0.00 | 0.00 | - | 1.00 | 0.35 | 0.00 | 1.00 | 4.71 | 11.00 | 1.00 |
| 90 Day U.S. Treasury Bill | -3.82 | 11.04 | -0.35 | 0.01 | - | 1.43 | 0.00 | 1.41 | 0.39 | -0.10 |

## Asset Allocation Compliance

As of March 31, 2023

|  | Market Value \$ | Current Allocation \% | Target Allocation \% | Differences \% |
| :---: | :---: | :---: | :---: | :---: |
| OPEB Plan | 9,940,968.15 | 100.00 | 100.00 | 0.00 |
| Fixed Income | 3,846,380.23 | 38.69 | 40.00 | -1.31 |
| Domestic Equity | 3,288,771.98 | 33.08 | 30.00 | 3.08 |
| International Equity | 1,847,755.19 | 18.59 | 20.00 | -1.41 |
| Real Estate | 553,168.92 | 5.56 | 5.00 | 0.56 |
| Total Short Term Liquidity | 404,891.83 | 4.07 | 5.00 | -0.93 |



## Total Fund



## Financial Reconciliation

1 Quarter Ending March 31, 2023

|  | Market Value As of 01/01/2023 | Net Flows | Return On Investment | Market Value As of 03/31/2023 |
| :---: | :---: | :---: | :---: | :---: |
| Allspring Government MM Fund | 13,507.36 | 28,687.92 |  | 42,195.28 |
| Webster Cash | 276,294.68 | 86,401.87 |  | 362,696.55 |
| Total Short Term Liquidity | 289,802.04 | 115,089.79 |  | 404,891.83 |
| Vanguard Total Bond Market Index Adm | 926,742.51 |  | 29,285.20 | 956,027.71 |
| Metropolitan West Total Return Bond PI | 730,071.68 | - | 25,859.12 | 755,930.80 |
| PGIM Total Return Bond R6 | 561,209.79 | - | 17,798.73 | 579,008.52 |
| PIMCO Income Fund | 1,516,561.77 | - | 38,851.43 | 1,555,413.20 |
| Total Fixed Income | 3,734,585.75 | - | 111,794.48 | 3,846,380.23 |
|  |  |  |  |  |
| Vanguard Total Stock Market Index Adm | 3,068,985.92 | - | 219,786.06 | 3,288,771.98 |
| Total Domestic Equity | 3,068,985.92 | - | 219,786.06 | 3,288,771.98 |
|  |  |  |  |  |
| Vanguard Total International Stock Index Adm | 909,190.32 | - | 60,546.79 | 969,737.11 |
| American Funds EuroPacific Growth R6 | 799,131.73 | - | 78,886.35 | 878,018.08 |
| Total International Equity | 1,708,322.05 | - | 139,433.14 | 1,847,755.19 |
|  |  |  |  |  |
| Cohen \& Steers Institutional Realty Shares | 540,048.39 | - | 13,120.53 | 553,168.92 |
| Total Real Estate | 540,048.39 | - | 13,120.53 | 553,168.92 |
| OPEB Plan | 9,341,744.15 | 115,089.79 | 484,134.21 | 9,940,968.15 |

## Asset Allocation by Segment

As of March 31, 2023


Segments

## Market Value Allocation

(\$)
(\%)
$404,891.83 \quad 4.07$
$553,168.92 \quad 5.56$
1,847,755.19 18.59
$3,288,771.98 \quad 33.08$
$3,846,380.23 \quad 38.69$

## Segments

- Cash Equivalent
- Real Estate
- International Equity
- Domestic Equity
- Domestic Fixed Income

Market Val 1,708,322.05 3,068,985.92 3,734,585.75
18.29

## Fee Analysis

As of March 31, 2023

|  |  | Fund Expense Information |  |  | Institutional Peer Comparison ${ }^{3}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fund Name | Vehicle Type ${ }^{1}$ | Peer Group | Expense Ratio ${ }^{2}$ | Revenue Share | Net of Revenue <br> Share | Universe Offering vs. Median Median |
|  |  |  | \% | \% | \% | \% |
| Vanguard Total Bond Market Index Adm | MF | U.S. Brd Market Core \& Core+ Fixed Income | 0.05\% | 0.00\% | 0.05\% | 0.10\% |
| MetWest Total Return Bond $P$ | MF | U.S. Broad Market Core+ Fixed Income | 0.37\% | 0.00\% | 0.37\% | 0.45\% $\downarrow$ |
| PGIM Total Return Bond R6 | MF | U.S. Broad Market Core+ Fixed Income | 0.39\% | 0.00\% | 0.39\% | 0.45\% |
| PIMCO Income Fund | MF | Multi-Sector General Bond | 0.50\% | 0.00\% | 0.50\% | 0.61\% |
| Vanguard Total Stock Market Index | MF | U.S. Multi-Cap Core Equity [Passive] | 0.04\% | 0.00\% | 0.04\% | 0.30\% |
| Vanguard Total International Stock Mrkt Index | MF | International Equity [Passive] | 0.11\% | 0.00\% | 0.11\% | 0.20\% |
| Europacific Growth R6 | MF | International Large Cap Core Equity | 0.46\% | 0.00\% | 0.46\% | 0.79\% |
| Cohen \& Steers Institutional Realty Shares | MF | Real Estate Sector | 0.75\% | 0.00\% | 0.75\% | 0.83\% |

Important Note: The investment fee analysis reported in the table above measures only the relative fee level of your current plan offerings as compared to medians from style-specific institutional mutual fund peer universes, which Aon Investments believes is an appropriate comparison
 Vehicle Type Definitions: "MF" = Mutual Fund, "CIT" = Collective Investment Trust, "SA" = Separate Account, "A" = Annuity
Expense Ratio
Expense Ratio is intended to represent a fund's total expense ratio which may include investment management fees, $12 \mathrm{~b}-1$ fees, custodial fees, trustee fees, revenue sharing components and/or charges for fund or
plan administration.

## AON

## Fixed Income



## Composite Portfolio Overview

As of March 31, 2023


Return Summary


## Asset Class Attribution

As of March 31, 2023



## Portfolio Characteristics

As of March 31, 2023

| Portfolio Characteristics |  |  |
| :--- | :---: | :---: |
| Avg. Quality | Portfolio | Benchmark |
| Coupon Rate (\%) | - | - |
| Current Yield | 1.42 | 2.73 |
| Effective Duration | - | - |
| Yield To Maturity (\%) | 5.31 | 6.17 |

Credit Quality Distribution \%


Sector Distribution \%


## Manager Performance Summary

As of March 31, 2023

| Account Information |  |
| :--- | :--- |
| Product Name: | Vanguard Tot Bd;Adm (VBTLX) |
| Fund Family : | Vanguard |
| Ticker : | VBTLX |
| Peer Group : | IM U.S. Broad Market Core Fixed Income (MF) |
| Benchmark : | Blmbg. U.S. Aggregate |
| Fund Inception: | $11 / 12 / 2001$ |
| Portfolio Manager : | Joshua C. Barrickman |
| Total Assets : | $\$ 98,106.40$ Million |
| Total Assets Date : | $03 / 31 / 2023$ |
| Gross Expense : | $0.05 \%$ |
| Net Expense : | $0.05 \%$ |
| Turnover: | $69 \%$ |





## Peer Group Analysis

As of March 31, 2023


## Risk Profile

As of March 31, 2023


## Standard Deviation <br> Rolling 5 Years



|  | Active Return | Tracking Error | Information Ratio | R-Squared | Sharpe Ratio | Alpha | Beta | Return | Standard Deviation | Actual Correlation |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Vanguard Total Bond Market Index Adm | 0.02 | 0.33 | 0.05 | 1.00 | -0.06 | 0.01 | 1.01 | 0.92 | 5.51 | 1.00 |
| Blmbg. U.S. Aggregate | 0.00 | 0.00 | - | 1.00 | -0.06 | 0.00 | 1.00 | 0.90 | 5.46 | 1.00 |
| FTSE 3 Month T-Bill | 0.34 | 5.38 | 0.06 | 0.07 | - | 1.38 | 0.02 | 1.40 | 0.37 | 0.26 |

## Mutual Fund Attributes

As of March 31, 2023


## Fund Characteristics As of 12/31/2022

Avg. Coupon 2.80 \%

Nominal Maturity Effective Maturity Duration
SEC 30 Day Yield 8.90 Years Avg. Credit Quality AA



## Manager Performance Summary

As of March 31, 2023

| Account Information |  |
| :---: | :---: |
| Product Name : | MetWest:Total Rtn;Plan (MWTSX) |
| Fund Family | Metropolitan West Asset Management |
| Ticker : | MWTSX |
| Peer Group : | IM U.S. Broad Market Core+ Fixed Income (MF) |
| Benchmark : | Blmbg. U.S. Aggregate |
| Fund Inception: | 07/29/2011 |
| Portfolio Manager : | Landmann/Kane/Whlen |
| Total Assets : | \$17,553.90 Million |
| Total Assets Date : | 03/31/2023 |
| Gross Expense : | 0.36\% |
| Net Expense : | 0.36\% |
| Turnover: | 467\% |



Ratio of Cumulative Wealth - Since Inception


## Peer Group Analysis

As of March 31, 2023


## Risk Profile

As of March 31, 2023

## Annualized Return vs. Annualized Standard Deviation

## 5 Years



## Standard Deviation

## Rolling 5 Years


5 Years Historical Statistics

|  | Active Return | Tracking Error | Information Ratio | R-Squared | Sharpe Ratio | Alpha | Beta | Return | Standard <br> Deviation | Actual Correlation |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Metropolitan West Total Return Bond PI | 0.26 | 0.87 | 0.30 | 0.99 | -0.01 | 0.17 | 1.09 | 1.14 | 6.01 | 0.99 |
| Blmbg. U.S. Aggregate | 0.00 | 0.00 | - | 1.00 | -0.06 | 0.00 | 1.00 | 0.90 | 5.46 | 1.00 |
| FTSE 3 Month T-Bill | 0.34 | 5.38 | 0.06 | 0.07 |  | 1.38 | 0.02 | 1.40 | 0.37 | 0.26 |

## Mutual Fund Attributes

As of March 31, 2023


| Fund Characteristics As of $\mathbf{1 2 / 3 1 / 2 0 2 2}$ |  |
| :--- | :--- |
| Avg. Coupon | $3.07 \%$ |
| Nominal Maturity | 8.36 Years |
| Effective Maturity | - |
| Duration | 6.82 Years |
| SEC 30 Day Yield | - |
| Avg. Credit Quality | AA |

## Sector/Quality Allocation As of 12/31/2022



## Manager Performance Summary

As of March 31, 2023

| Account Information |  |
| :--- | :--- |
| Product Name: | PGIM Tot Rtn Bond;R6 (PTRQX) |
| Fund Family : | PGIM Investments |
| Ticker : | PTRQX |
| Peer Group : | IM U.S. Broad Market Core+ Fixed Income (MF) |
| Benchmark : | BImbg. U.S. Aggregate |
| Fund Inception : | 12/27/2010 |
| Portfolio Manager : | Team Managed |
| Total Assets : | $\$ 19,651.70$ Million |
| Total Assets Date : | $03 / 31 / 2023$ |
| Gross Expense : | $0.40 \%$ |
| Net Expense : | $0.39 \%$ |
| Turnover : | $130 \%$ |




Ratio of Cumulative Wealth - Since Inception


## Peer Group Analysis

As of March 31, 2023


## Risk Profile

As of March 31, 2023

## Annualized Return vs. Annualized Standard Deviation

## 5 Years



Standard Deviation
Rolling 5 Years


## 5 Years Historical Statistics

|  | Active Return | Tracking Error | Information Ratio | R-Squared | Sharpe Ratio | Alpha | Beta | Return | Standard Deviation | Actual Correlation |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PGIM Total Return Bond R6 | 0.18 | 3.19 | 0.06 | 0.79 | -0.02 | 0.05 | 1.12 | 1.00 | 6.88 | 0.89 |
| Blmbg. U.S. Aggregate | 0.00 | 0.00 | - | 1.00 | -0.06 | 0.00 | 1.00 | 0.90 | 5.46 | 1.00 |
| FTSE 3 Month T-Bill | 0.34 | 5.38 | 0.06 | 0.07 | - | 1.38 | 0.02 | 1.40 | 0.37 | 0.26 |

## Mutual Fund Attributes

As of March 31, 2023


## Fund Characteristics As of 12/31/2022

Nominal Maturity 9.39 Years Effective Maturity Duration
SEC 30 Day Yield
Avg. Credit Quality A



## Manager Performance Summary

As of March 31, 2023

| Account Information |  |
| :---: | :---: |
| Product Name : | PIMCO:Income;Inst (PIMIX) |
| Fund Family | PIMCO |
| Ticker : | PIMIX |
| Peer Group : | IM Multi-Sector General Bond (MF) |
| Benchmark : | Blmbg. U.S. Aggregate |
| Fund Inception : | 03/30/2007 |
| Portfolio Manager : | Ivascyn/Murata/Anderson |
| Total Assets : | \$70,267.20 Million |
| Total Assets Date : | 03/31/2023 |
| Gross Expense : | 0.51\% |
| Net Expense : | 0.51\% |
| Turnover: | 319\% |




Ratio of Cumulative Wealth - Since Inception


## Peer Group Analysis

As of March 31, 2023


## Risk Profile

As of March 31, 2023

## Annualized Return vs. Annualized Standard Deviation

## 5 Years



## Standard Deviation

Rolling 5 Years


| 5 Years Historical Statistics |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Active Return | Tracking Error | Information Ratio | R-Squared | Sharpe Ratio | Alpha | Beta | Return | Standard Deviation | Actual Correlation |
| PIMCO Income Fund | 1.39 | 5.14 | 0.27 | 0.37 | 0.17 | 1.74 | 0.68 | 2.28 | 6.11 | 0.61 |
| Blmbg. U.S. Aggregate | 0.00 | 0.00 | - | 1.00 | -0.06 | 0.00 | 1.00 | 0.90 | 5.46 | 1.00 |
| FTSE 3 Month T-Bill | 0.34 | 5.38 | 0.06 | 0.07 | - | 1.38 | 0.02 | 1.40 | 0.37 | 0.26 |

## Mutual Fund Attributes

As of March 31, 2023


| Fund Characteristics As of $\mathbf{1 2 / 3 1 / 2 0 2 2}$ |  |
| :--- | :--- |
| Avg. Coupon | $3.31 \%$ |
| Nominal Maturity | 5.97 Years |
| Effective Maturity | - |
| Duration | 3.83 Years |
| SEC 30 Day Yield | 6.70 |
| Avg. Credit Quality | A |

Top Ten Securities As of 12/31/2022
GNMA and Other Mtg Backed
78.34 \%

Corporate Notes/Bonds
$26.15 \%$
Fgn. Currency Denominated Bonds
11.67 \%

Convertible Securities

Sector/Quality Allocation As of 12/31/2022


## Domestic Equity

## AON



## Manager Performance Summary

As of March 31, 2023

| Account Information |  |
| :--- | :--- |
| Product Name : | Vanguard TSM Idx;Adm (VTSAX) |
| Fund Family : | Vanguard |
| Ticker : | VTSAX |
| Peer Group : | IM U.S. Multi-Cap Core Equity (MF) |
| Benchmark : | Vanguard Spliced Total Stock Market Index |
| Fund Inception: | $11 / 13 / 2000$ |
| Portfolio Manager : | O'Reilly/Nejman/Louie |
| Total Assets : | $\$ 293,713.40$ Million |
| Total Assets Date : | $03 / 31 / 2023$ |
| Gross Expense : | $0.04 \%$ |
| Net Expense : | $0.04 \%$ |
| Turnover : | $4 \%$ |




Ratio of Cumulative Wealth - Since Inception


## Peer Group Analysis

As of March 31, 2023


## Risk Profile

As of March 31, 2023

## Annualized Return vs. Annualized Standard Deviation

## 5 Years



- FTSE 3 Month T-Bill


## 5 Years Historical Statistics

|  | Active Return | Tracking Error | Information Ratio | R-Squared | Sharpe Ratio | Alpha | Beta | Return | Standard Deviation | Actual Correlation |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Vanguard Total Stock Market Index Adm | -0.02 | 0.03 | -0.62 | 1.00 | 0.54 | -0.01 | 1.00 | 10.36 | 19.22 | 1.00 |
| Vanguard Spliced Total Stock Market Index | 0.00 | 0.00 | - | 1.00 | 0.54 | 0.00 | 1.00 | 10.37 | 19.22 | 1.00 |
| FTSE 3 Month T-Bill | -10.35 | 19.25 | -0.54 | 0.00 | - | 1.41 | 0.00 | 1.40 | 0.37 | -0.05 |

Standard Deviation
Rolling 5 Years


## Mutual Fund Attributes

As of March 31, 2023


## Fund Characteristics As of 01/31/2023

| Total Securities | 3,969 |
| :--- | :--- |
| Avg. Market Cap | $\$ 367,054.04$ Million |
| P/E | 27.74 |
| P/B | 8.12 |
| Div. Yield | $2.01 \%$ |
| Annual EPS | 28.61 |
| 5Yr EPS | 18.10 |
| 3Yr EPS Growth | 19.62 |
|  |  |
|  |  |
|  |  |


| Top Ten Securities As of 01/31/2023 | $5.37 \%$ |
| :--- | :--- |
| Apple Inc ORD | $4.55 \%$ |
| Microsoft Corp ORD | $2.20 \%$ |
| Amazon.com Inc ORD | $1.45 \%$ |
| Alphabet Inc Class A ORD | $1.29 \%$ |
| Berkshire Hathaway Inc ORD | $1.27 \%$ |
| Alphabet Inc Class C ORD | $1.18 \%$ |
| Exxon Mobil Corp ORD | $1.15 \%$ |
| UnitedHealth Group Inc ORD | $1.14 \%$ |
| Tesla Inc ORD | $1.12 \%$ |



## International Equity

## AON



## Composite Portfolio Overview

As of March 31, 2023


Return Summary


Ratio of Cumulative Wealth - Since Inception


## Asset Class Attribution

As of March 31, 2023



## Risk Profile

As of March 31, 2023


5 Years Historical Statistics
International Equity
Wilton OPEB IE Hybrid BB

| Active | Tracking <br> Return |
| :---: | :---: |
| $\mathbf{0 . 5 9}$ | $\mathbf{2 . 7 8}$ |
| 0.00 | 0.00 |
| -2.62 | 17.48 |


| Information <br> Ratio | R-Squared |
| :---: | :---: |
| $\mathbf{0 . 2 1}$ | 0.98 |
| - | 1.00 |
| 0.15 |  |


| Sharpe <br> Ratio | Alpha |
| :---: | ---: |
| $\mathbf{0 . 1 7}$ | $\mathbf{0 . 4 2}$ |
| 0.15 | 0.00 |
| - | 1.42 |


| Beta |
| :---: |
| 1.04 |
| 1.00 |
| 0.00 |


| Return |
| :---: |
| $\mathbf{2 . 9 8}$ |
| 2.54 |
| 1.41 |



Actual Correlation 0.99 1.00 $-0.10$

## Manager Performance Summary

As of March 31, 2023

| Account Information |  |
| :--- | :--- |
| Product Name : | Vanguard Tot I S;Adm (VTIAX) |
| Fund Family : | Vanguard |
| Ticker : | VTIAX |
| Peer Group : | IM International Large Cap Core Equity (MF) |
| Benchmark : | Vanguard Spliced Total International Stock Index |
| Fund Inception: | $11 / 29 / 2010$ |
| Portfolio Manager : | Perre/Franquin |
| Total Assets : | $\$ 69,140.70$ Million |
| Total Assets Date : | $03 / 31 / 2023$ |
| Gross Expense : | $0.11 \%$ |
| Net Expense : | $0.11 \%$ |
| Turnover: | $5 \%$ |




Ratio of Cumulative Wealth - Since Inception


## Peer Group Analysis

As of March 31, 2023
IM International Large Cap Core Equity (MF)


## Risk Profile

As of March 31, 2023


## Standard Deviation <br> Rolling 5 Years



|  | Active Return | Tracking Error | Information Ratio | R-Squared | Sharpe Ratio | Alpha | Beta | Return | Standard Deviation | Actual Correlation |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Vanguard Total International Stock Index Adm | -0.03 | 2.09 | -0.01 | 0.99 | 0.15 | -0.11 | 1.02 | 2.49 | 17.99 | 0.99 |
| Vanguard Spliced Total International Stock Index | 0.00 | 0.00 | - | 1.00 | 0.15 | 0.00 | 1.00 | 2.61 | 17.51 | 1.00 |
| FTSE 3 Month T-Bill | -2.71 | 17.51 | -0.15 | 0.00 | - | 1.40 | 0.00 | 1.40 | 0.37 | 0.00 |

## Mutual Fund Attributes

As of March 31, 2023


Fund Characteristics As of 01/31/2023

| Fund Characteristics As of 01/31/2023 |  |
| :--- | :--- |
| Total Securities | 7,944 |
| Avg. Market Cap | $\$ 73,137.01$ Million |
| P/E | 21.06 |
| P/B | 3.75 |
| Div. Yield | $3.44 \%$ |
| Annual EPS | 40.42 |
| 5Yr EPS | 13.97 |
| 3Yr EPS Growth | 13.51 |
|  |  |
|  |  |
|  |  |


| Top Ten Securities As of 01/31/2023 | $1.74 \%$ |
| :--- | :--- |
| Vanguard Market Liquidity Fund | $1.48 \%$ |
| Taiwan Semiconductor Manufacturing | $1.15 \%$ |
| Nestle SA ORD | $1.02 \%$ |
| Tencent Holdings Ltd ORD | $0.93 \%$ |
| ASML Holding NV ORD | $0.82 \%$ |
| Samsung Electronics Co Ltd ORD | $0.76 \%$ |
| LVMH Moet Hennessy Louis Vuitton | $0.76 \%$ |
| Roche Holding AG | $0.76 \%$ |
| Novo Nordisk A/S ORD | $0.73 \%$ |
| Shell PLC ORD |  |



## Manager Performance Summary

As of March 31, 2023

| Account Information |  |
| :--- | :--- |
| Product Name: | American Funds EuPc;R6 (RERGX) |
| Fund Family: | Capital Group/American Funds |
| Ticker: | RERGX |
| Peer Group : | IM International Large Cap Core Equity (MF) |
| Benchmark: | MSCI AC World ex USA Index (Net) |
| Fund Inception: | $05 / 01 / 2009$ |
| Portfolio Manager : | Team Managed |
| Total Assets: | $\$ 69,573.00$ Million |
| Total Assets Date : | $03 / 31 / 2023$ |
| Gross Expense: | $0.46 \%$ |
| Net Expense: | $0.46 \%$ |
| Turnover: | $29 \%$ |




## Ratio of Cumulative Wealth - Since Inception



## Peer Group Analysis

As of March 31, 2023
IM International Large Cap Core Equity (MF)


## Risk Profile

As of March 31, 2023

## Annualized Return vs. Annualized Standard Deviation

## 5 Years



Standard Deviation
Rolling 5 Years

5 Years Historical Statistics

|  | Active Return | Tracking Error | Information Ratio | R-Squared | Sharpe Ratio | Alpha | Beta | Return | Standard Deviation | Actual Correlation |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| American Funds EuroPacific Growth R6 | 1.06 | 4.48 | 0.24 | 0.95 | 0.19 | 0.79 | 1.07 | 3.25 | 19.06 | 0.97 |
| MSCI AC World ex USA Index (Net) | 0.00 | 0.00 | - | 1.00 | 0.15 | 0.00 | 1.00 | 2.47 | 17.37 | 1.00 |
| FTSE 3 Month T-Bill | -2.55 | 17.37 | -0.15 | 0.00 | - | 1.40 | 0.00 | 1.40 | 0.37 | 0.01 |

## Mutual Fund Attributes

As of March 31, 2023


Fund Characteristics As of 12/31/2022
Avg. Market Cap $\quad \$ 93,963.35$ Million
P/E 26.55
P/B 6.03
Div. Yield

Annual EPS 43.86
5Yr EPS 14.87
3Yr EPS Growth $\quad 15.56$

| Top Ten Securities As of 12/31/2022 |  |
| :--- | :--- |
| Capital Group Central Cash Fund; | $5.79 \%$ |
| Novo Nordisk A/S ORD | $3.69 \%$ |
| Reliance Industries Ltd ORD | $3.08 \%$ |
| LVMH Moet Hennessy Louis Vuitton | $2.80 \%$ |
| ASML Holding NV ORD | $2.40 \%$ |
| Canadian Natural Resources Ltd | $2.33 \%$ |
| AIA Group Ltd ORD | $2.19 \%$ |
| Airbus SE ORD | $2.12 \%$ |
| Daiichi Sankyo Co Ltd ORD | $2.07 \%$ |
| Taiwan Semiconductor Manufacturing | $1.89 \%$ |

Regional Allocation As of 12/31/2022


## Real Estate



## Manager Performance Summary

As of March 31, 2023

| Account Information |  |
| :--- | :--- |
| Product Name : | Cohen\&Steers Inst RS (CSRIX) |
| Fund Family : | Cohen \& Steers |
| Ticker : | CSRIX |
| Peer Group : | IM Real Estate Sector (MF) |
| Benchmark : | FTSE NAREIT All Equity REITs |
| Fund Inception : | $02 / 14 / 2000$ |
| Portfolio Manager : | Cheigh/Yablon/Kirschner |
| Total Assets : | $\$ 6,047.20$ Million |
| Total Assets Date : | $02 / 28 / 2023$ |
| Gross Expense : | $0.76 \%$ |
| Net Expense : | $0.75 \%$ |
| Turnover: | $34 \%$ |




## Ratio of Cumulative Wealth - Since Inception



## Peer Group Analysis

As of March 31, 2023


## Risk Profile

As of March 31, 2023

## Annualized Return vs. Annualized Standard Deviation

## 5 Years



Cohen \& Steers Institutional Realty Shares
FTSE NAREIT All Equity REITs

5 Years Historical Statistics

|  | Active Return | Tracking Error | Information Ratio | R-Squared | Sharpe Ratio | Alpha | Beta | Return | Standard Deviation | Actual Correlation |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cohen \& Steers Institutional Realty Shares | 1.48 | 2.16 | 0.68 | 0.99 | 0.42 | 1.69 | 0.98 | 7.90 | 19.35 | 0.99 |
| FTSE NAREIT All Equity REITs | 0.00 | 0.00 | - | 1.00 | 0.34 | 0.00 | 1.00 | 6.25 | 19.72 | 1.00 |
| FTSE 3 Month T-Bill | -6.64 | 19.75 | -0.34 | 0.01 | - | 1.41 | 0.00 | 1.40 | 0.37 | -0.07 |

## Mutual Fund Attributes

As of March 31, 2023


| Fund Characteristics As of $\mathbf{1 2 / 3 1 / 2 0 2 2}$ |  |
| :--- | :--- |
| Total Securities | 33 |
| Avg. Market Cap | $\$ 39,697.23$ Million |
| P/E | 33.92 |
| P/B | 4.53 |
| Div. Yield | $3.56 \%$ |
| Annual EPS | 62.95 |
| 5Yr EPS | 5.46 |
| 3Yr EPS Growth | 13.34 |
|  |  |
|  |  |
|  |  |
|  |  |


| Top Ten Securities As of 12/31/2022 |  |
| :--- | :---: |
| Prologis Inc ORD | $\mathbf{1 0 . 0 1} \%$ |
| Welltower Inc ORD | $7.18 \%$ |
| American Tower Corp ORD | $6.89 \%$ |
| Public Storage ORD | $6.85 \%$ |
| Digital Realty Trust Inc ORD | $6.44 \%$ |
| Simon Property Group Inc ORD | $6.24 \%$ |
| Realty Income Corp ORD | $5.25 \%$ |
| Invitation Homes Inc ORD | $4.69 \%$ |
| Crown Castle Inc ORD | $4.01 \%$ |
| Equinix Inc ORD | $3.47 \%$ |



## Short Term Liquidity

## AON



## Manager Performance Summary

As of March 31, 2023

## Account Information




## Peer Group Analysis

As of March 31, 2023


## Risk Profile

As of March 31, 2023


Standard Deviation
Rolling 5 Years


| 5 Years Historical Statistics |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Active Return | Tracking Error | Information Ratio | R-Squared | Sharpe Ratio | Alpha | Beta | Return | Standard Deviation | Actual Correlation |
| Allspring Government MM Fund | -0.29 | 0.45 | -0.64 | 0.11 | -0.66 | 0.66 | 0.33 | 1.12 | 0.38 | 0.33 |
| 90 Day U.S. Treasury Bill | 0.00 | 0.00 | - | 1.00 | 0.05 | 0.00 | 1.00 | 1.41 | 0.39 | 1.00 |
| FTSE 3 Month T-Bill | -0.01 | 0.11 | -0.05 | 0.92 |  | 0.12 | 0.91 | 1.40 | 0.37 | 0.96 |

## Appendix



## Factor Indices



## Global Equity Markets

GLOBAL MSCI IMI INDEX RETURNS (USD) AS OF 03/31/2023
■ First Quarter 2023


- In Q1 2023, equity markets rose as high-interest rate concerns abated against the back drop of contagion within the banking sector. Volatility fell throughout the quarter as the CBOE Volatility
 The MSCI All Country World Investable Market Index (ACWI IMI) returned $6.9 \%$ for the quarter but was down $7.7 \%$ on a one-year basis
- Across international markets, generally all the regions were strong over the quarter. All regions apart from Israel posted a positive return.
- Europe ex-UK equities were the best regional performer with a return of $11.6 \%$ in US dollar terms due to sharp euro appreciation against the dollar. Economically sensitive sectors including industrials and consumer discretionary outperformed.
Past performance is no guarantee of future results. Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect fees and expenses. Please see appendix for index definitions and other general disclosures.


## Global Equity Markets

Below is the country/region breakdown of the global and international equity markets as measured by the MSCI All Country World IMI Index and the MSCI All Country World exU.S. IMI Index, respectively.

MSCI ALL COUNTRY WORLD IMI INDEX GEOGRAPHIC ALLOCATION AS OF 3/31/2023


MSCI ALL COUNTRY WORLD EX-U.S. IMI INDEX GEOGRAPHIC ALLOCATION AS OF 3/31/2023


## U.S. Equity Markets

-U.S. equities had a strong quarter with the S\&P 500 index rising by $7.5 \%$ despite the collapse of Silicon Valley Bank, which had sent jitters throughout the financial system. Rate expectations fell due to the expectation of tighter credit conditions.
-The U.S. unveiled fresh sanctions on more than 200 entities throughout Europe, Asia, and the Middle East "that are supporting Russia's war effort", whilst imposing a ban on five Chinese entities from acquiring U.S. technology. U.S.-China trade tensions saw further escalation as Japan and the Netherlands entered into a trilateral agreement with the U.S. that restricts exports of chip manufacturing tools to China. The agreement is designed to hinder the Chinese military's ability to develop advanced weapons.
-The U.S. economy expanded by $2.9 \%$ year-on-year in Q4 2022, slightly higher than economists' forecasts of $2.6 \%$ but lower than the $3.2 \%$ recorded in the previous quarter. Increased business inventories, especially across the manufacturing and utilities sectors, combined with steady consumer spending, contributed to the economy's expansion.
-The Russell 3000 Index rose $7.2 \%$ during the first quarter but was down $8.6 \%$ on a one-year basis. Sectoral performance was mixed. Technology ( $24.9 \%$ ) and Consumer Discretionary ( $14.5 \%$ ) were the best performers while Financials ( $-5.5 \%$ ) and Energy ( $-4.9 \%$ ) were the worst performers.

- Large-cap stocks outperformed in growth and Medium-cap stocks outperformed in value.
- On a style basis, growth outperformed value across market capitalizations over the quarter.


Past performance is no guarantee of future results. Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect fees and Past performance is no guarantee of future results. Indices cannot be invested in dire
expenses. Please see appendix for index definitions and other general disclosures.

## U.S. Fixed Income Markets

BLOOMBERG AGGREGATE RETURNS BY MATURITY AS OF 03/31/2023


Source: FactSet

## BLOOMBERG AGGREGATE RETURNS BY QUALITY AND HIGH

 YIELD RETURNS AS OF 03/31/2023
bloomberg aggregate returns by sector AS OF 03/31/2023


- The U.S. Federal Reserve (Fed) increased its benchmark interest rate by 50 bps to a range of $4.75 \%-5 \%$ over the quarter, the highest level since 2007 . The Federal Open Market Committee (FOMC) dropped its previous warning that "ongoing increases" would be needed to bring soaring inflation under control, instead noting that "some additional policy firming may be appropriate".
- The Bloomberg U.S. Aggregate Bond Index was up 3.0\% over the quarter but was down 4.8\% on a one-year basis.
- Across durations, all maturities finished the quarter in positive territory.
- Within investment-grade bonds, lower-credit quality generally outperformed higher-quality issues, with Baa bonds rising by $3.6 \%$. High-yield bonds also rose by 3.6 \%.


## U.S. Fixed Income Markets

## U.S. TREASURY YIELD CURVE <br> 5.5\% <br>  <br>  <br>  <br> Source: U.S. Department of Treasury <br> Source: U.S. Department of Treasury <br> - U.S. Treasury yields fell significantly across maturities except at the shortest end of the curve. The 10 -year Treasury yield was down 40 bps to $3.48 \%$, and the 30 -year Treasury yield was down 30bps to $3.67 \%$ over the quarter. <br> - U.S. CPI inflation declined to $6.0 \%$ in February, down from the $6.4 \%$ recorded in January, meeting economists' expectations. U.S. core CPI declined to $5.5 \%$ from January's $5.6 \%$ and was also in-line with economists' expectations. <br> - The 10-year TIPS yield fell by 42 bps over the quarter to $1.16 \%$.

## European Fixed Income Markets

EUROZONE PERIPHERAL BOND SPREADS (10-YEAR SPREADS OVER GERMAN BUNDS)


- European government bond spreads over 10-year German bunds narrowed across the Euro Area. The European Central Bank (ECB) raised its benchmark interest rates by 100bps to $3 \%$ over the quarter.
- Italian and Portuguese government bond yields fell sharply, down 50bps and 45 bps to $4.14 \%$ and $3.12 \%$ respectively over the quarter
- German bund yields fell by 21 bps to $2.33 \%$ over the quarter.
- Eurozone headline inflation eased slightly, slowing to $8.5 \%$ in February from $8.6 \%$ in January, although the decline was less than economists' expectations of $8.2 \%$.


## Credit Spreads

| Spread (bps) | $\mathbf{3 / 3 1 / 2 0 2 3}$ | $\mathbf{1 2 / 3 1 / 2 0 2 2}$ | $\mathbf{9 / 3 0 / 2 0 2 2}$ | Quarterly Change (bps) | 6M Change (bps) |
| :--- | :--- | :--- | :--- | :--- | :--- |
| U.S. Aggregate | 57 | 51 | 41 | 6 | 16 |
| Long Gov't | 2 | 2 | 3 | 0 | -1 |
| Long Credit | 159 | 157 | 155 | 2 | 4 |
| Long Gov't/Credit | 86 | 87 | 88 | -1 | -2 |
| MBS | 63 | 51 | 24 | 12 | 39 |
| CMBS | 142 | 120 | 85 | 22 | 57 |
| ABS | 85 | 76 | 57 | 9 | 28 |
| Corporate | 138 | 130 | 116 | 8 | 22 |
| High Yield | 455 | 469 | 325 | -14 | 130 |
| Global Emerging Markets | 352 | 332 | 313 | 20 | 39 |

- Credit markets rose amid risk-taking sentiment during the quarter, with spreads being mixed.
- High Yield and Long Govt/Credit spreads narrowed by 14bps and 1bp respectively while CMBS and Global Emerging Markets spreads widened by 22bps and 20bps, respectively


## Currency

TRADE WEIGHTED U.S. DOLLAR INDEX
(2006 = 100)

U.S. DOLLAR RELATIVE TO EUR, GBP AND JPY ${ }_{140}$ REBASED TO 100 AT 03/31/2017 —EUR/USD —GBP/USD


- The U.S. Dollar weakened against all major currencies (except for yen) over the quarter as the combination of weakening US growth and falling inflation led to expectations that the Fed would cut policy rates this year faster than previously anticipated. On a trade-weighted basis, the U.S. dollar depreciated by $1.6 \%$.
- Sterling appreciated by $2.7 \%$ against the U.S. dollar. The Bank of England (BoE) raised its benchmark interest rate by 75 bps to $4.25 \%$ over the quarter. The BoE noted that the need for further monetary policy tightening would depend on future evidence concerning the persistence of price pressures.
- The U.S. dollar depreciated by $1.8 \%$ against the Euro but appreciated by $0.9 \%$ against the yen. The Bank of Japan's new governor, Kazuo Ueda, indicated maintaining the central bank's yield curve control policy for the time being, given the prevailing economic, inflationary, and financial conditions.


## Commodities



- Commodity prices fell over the quarter with the Bloomberg Commodity Index falling by $5.4 \%$ for quarter.
- The energy sector fell $18.7 \%$ over the quarter and $25.1 \%$ on a one-year basis. The price of WTI crude oil was down by $5.7 \%$ to U.S. $\$ 76 / B B L$.
- Precious Metals rose the most over the quarter at $6.3 \%$.
- Meanwhile, OPEC+ announced surprise oil production cuts in excess of 1 million barrels a day (b/d), including a 500,000 b/d cut by Saudi Arabia. The timing of the announcement was unusual as it wasn't made during a formal OPEC+ meeting.
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## Hedge Funds Market Overview



HEDGE FUND PERFORMANCE
First Quarter 2023
AS OF 03/31/2023

- Hedge fund performance was generally positive over the quarter.
-The HFRI Fund-Weighted Composite and HFRI Fund of Funds Composite Index produced returns of $1.2 \%$ and $1.6 \%$ over the quarter, respectively.
- Over the quarter, Equity Hedge strategy was the best performer with a return of $3.4 \%$.
- Global Macro was the worst performer and the only strategy with a negative return ( $-3.0 \%$ ) over the quarter.
- On a one-year basis, Fixed Income/Convertible Arbitrage has outperformed all other strategies whilst Emerging Markets have performed the worst. Past performance is no guarantee of future results. Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect fees and expenses. Please see appendix for index definitions and other general disclosures.


## Private Equity Overview - 4Q 2022



- Fundraising: In 2022, \$1.0 trillion was raised by 2,518 funds, which was a decrease of $10.7 \%$ on a capital basis and $38.9 \%$ by number of funds from the prior year. Dry powder stood at $\$ 3.1$ trillion at the end of the year, an increase of $18.6 \%$ and $42.9 \%$ compared to year-end 2021 and the five-year average, respectively. ${ }^{1}$
- Buyout: Global private equity-backed buyout deals totaled $\$ 738.8$ billion in 2022 , which was a decrease on a capital basis of $19.2 \%$ compared to 2021 and an increase of $27.4 \%$ compared to the five-year average. ${ }^{1}$ At the end of 2022, the average purchase price multiple for all U.S. LBOs was 11.9x EBITDA, up from year-end 2021 's average of $11.4 x$ and up from the five-year average (11.1x). Large cap purchase price multiples stood at $11.8 x$, up compared to the full-year 2021 level of $11.2 x$. The average purchase price multiple across European transactions greater than €1B averaged 11.1x EBITDA at year-end 2022, down from the 11.6x multiple seen at year-end 2021. Purchase prices for transactions of $€ 500 \mathrm{M}$ or greater decreased from 11.5 x in 2021 to 10.7 x in $2022 .{ }^{2}$ Globally, buyout exit value totaled $\$ 390.1$ billion across 1,431 deals during the year, lower than the $\$ 666.6$ billion in value from 2,588 deals during $2021 .{ }^{1}$
- Venture: During the year, 17,990 venture-backed transactions totaling $\$ 238.3$ billion were completed, which was a decrease on both a capital and deal count basis over the prior year's total of $\$ 344.7$ billion across 18,521 deals. However, this was an increase of $32.1 \%$ compared to the five-year average of $\$ 180.4$ billion. Total U.S. venture-backed exit value totaled approximately $\$ 71.4$ billion across an estimated 1,391 completed transactions in 2022, down substantially from $\$ 753.2$ billion across 1,925 exits in $2021 .{ }^{3}$
Sources: 1 Preqin ${ }^{2}$ Standard \& Poor's ${ }^{3}$ PitchBook/NVCA Venture Monitor 4 Fitch Ratings
Notes: FY=Fiscal year ended 12/31; YTD=Year to date; LTM=Last 12 months (aka trailing 12 months); PPM=Purchase Price Multiples: Total Purchase Price $\div$ EBITDA


## Private Equity Overview (cont.)

U.S. LBO Purchase Price Multiples - All Transactions Sizes


- Mezzanine: 39 funds closed on $\$ 25.7$ billion during the year. This was an increase from the prior year's total of $\$ 17.8$ billion raised by 38 funds and represented an increase of $33.1 \%$ from the five-year average of $\$ 19.3$ billion. Estimated dry powder was $\$ 66.6$ billion at the end of 2022 , up from $\$ 43.7$ billion during the prior year.
- Distressed Debt: The TTM U.S. high-yield default rate was $1.3 \%$ as of December 2022, which up from December 2021's TTM rate of $0.5 \%$. Fitch expects the high-yield default rate to trend higher through 2023.4 During the year, $\$ 65.9$ billion was raised by 59 funds, down from the $\$ 78.1$ billion raised by 111 funds during 2021. Dry powder was estimated at $\$ 146.8$ billion at the end of 2022 , which was down $9.5 \%$ from year-end 2021. This remained above the five-year annual average level of $\$ 130.4$ billion.
- Secondaries: 59 funds raised $\$ 32.7$ billion during the year, down from the $\$ 44.2$ billion raised by 85 funds in 2021. This was $26.4 \%$ lower than the five-year average of $\$ 44.5$ billion. 1 The average discount rate for LP buyout and venture capital portfolios finished the year at $13.0 \%$ and $32.0 \%$, respectively, an increase from the $3.0 \%$ and $12.0 \%$ discounts, respectively, at the end of 2021.4
- Infrastructure: $\$ 162.2$ billion of capital was raised by 90 funds in 2022 compared to $\$ 132.9$ billion of capital raised by 152 partnerships in 2021. At the end of the year, dry powder stood at \$346.2 billion, up from last year's total of \$297.7 billion. Infrastructure managers completed 2,521 deals for an aggregate deal value of $\$ 381.4$ billion in 2022 compared to 2,503 deals totaling $\$ 526.1$ billion in $2021 .{ }^{1}$
- Natural Resources: During 2022, 23 funds closed on $\$ 4.2$ billion compared to 29 funds totaling $\$ 13.0$ billion in 2021. Energy and utilities industry managers completed 237 deals totaling $\$ 36.7$ billion in 2022, an increase compared to 223 deals totaling $\$ 34.7$ billion in 2021. ${ }^{1}$


## Historical Hybrid Composition

Benchmark Composition
Passive PortfoliosDec-202090 Day U.S. Treasury Bill 5.00
Blmbg. U.S. Aggregate
RSP U.S. Total Market TR Index ..... 30.00
MSCI AC World ex USA Index (Net) ..... 10.00
FTSE Global ex USA All Cap Index (Net) ..... 10.00
FTSE NAREIT All Equity REITs ..... 5.00
Jun-2019
90 Day U.S. Treasury Bill ..... 5.00
Blmbg. U.S. Aggregate ..... 37.50
Blmbg. U.S. TIPS ..... 2.50
CRSP U.S. Total Market TR Index ..... 30.00
MSCI AC World ex USA Index (Net) ..... 10.00
TSE Global ex USA All Cap Index (Net) ..... 10.00
Vanguard Real Estate Spliced Index ..... 5.00
Dec-2015
0 Day U.S. Treasury Bill ..... 5.00
Imbg. U.S. Aggregate ..... 35.00
Imbg. U.S. TIPS ..... 5.00
RSP U.S. Total Market TR Index ..... 30.00
MSCI AC World ex USA Index (Net) ..... 10.0
FTSE Global ex USA All Cap Index (Net) ..... 5.00
Passive Portfolios Weight (\%)Day U.S. Treasury Bill5.00
Blmbg. U.S. Aggregate ..... 20.00
Blmbg. U.S. Credit 5-10 Year Index ..... 15.00
Blmbg. U.S. TIPS ..... 5.00
CRSP U.S. Total Market TR Index ..... 30.00
MSCI AC World ex USA Index (Net) ..... 10.00
FTSE Global ex USA All Cap Index (Net) ..... 10.00
MSCI USA REIT Index ..... 5.00
Jun-2013
90 Day U.S. Treasury Bill ..... 15.00
Imbg. U.S. Aggregate00
BImbg. U.S. TIPS ..... 5.00
CRSP U.S. Total Market TR Index ..... 30.00
FTSE Global ex USA All Cap Index (Net) ..... 20.00
MSCI USA REIT Index ..... 5.00
May-2012
90 Day U.S. Treasury Bill ..... 15.00
Blmbg. U.S. Aggregate ..... 25.00
Blmbg. U.S. TIPS ..... 5.00
MSCI USA Broad Market Index ..... 30.00
MSCI AC World ex USA Index (Net) ..... 20.00
MSCI USA REIT Index ..... 5.00

## Historical Hybrid Composition

Benchmark Composition
Passive Portfolios Weight (\%)
Feb-2011
Blmbg. U.S. Aggregate Float Adjusted ..... 45.00
MSCI USA Broad Market Index ..... 30.00
FTSE All World Ex U.S. ..... 2.00
MSCI USA REIT Index ..... 5.00
Nov-2010
Blmbg. U.S. Aggregate Float Adjusted ..... 40.00
MSCI USA Broad Market Index ..... 32.00
FTSE All World Ex U.S ..... 20.00
Blmbg. 20-30 Year Treasury Strips ..... 5.00
MSCI USA REIT Index ..... 3.00
Sep-2010
lmbg. U.S. Aggregate Float Adjusted ..... 40.00
MSCI USA Broad Market Index ..... 33.00
FTSE All World Ex U.S. ..... 20.00
MSCI USA REIT Index ..... 2.00
Blmbg. 20-30 Year Treasury Strips ..... 5.00
Jun-2003
Blmbg. U.S. Aggregate Float Adjusted 45.00
MSCI USA Broad Market Index ..... 35.00
FTSE All World Ex U.S. ..... 20.00

## Historical Hybrid Composition

Benchmark Composition
Passive Portfolios
Dec-2020Blmbg. U.S. Aggregate100.00
Jun-2019
Blmbg. U.S. Aggregate ..... 93.75
Blmbg. U.S. TIPS ..... 6.2
Dec-2015
Blmbg. U.S. Aggregate ..... 87.50
Blmbg. U.S. TIPS ..... 12.50
Aug-2014
Blmbg. U.S. Aggregate ..... 50.00
Blmbg. U.S. Credit 5-10 Year Index ..... 37.50
Blmbg. U.S. TIPS ..... 12.50
May-2012
Blmbg. U.S. Aggregate ..... 83.33
Blmbg. U.S. TIPS ..... 16.67
Jan-1976
Blmbg. U.S. Aggregate Float Adjusted ..... 100.00

## Historical Hybrid Composition

Benchmark Composition
Passive Portfolios
NSCI AC World ex USA Index (Net) 50.00
FTSE Global ex USA All Cap Index (Net) ..... 50.00
Jun-2013
FTSE Global ex USA All Cap Index (Ne) ..... 100.00
May-2012
MSCI AC World ex USA Index (Net) 00.00
Jan-1994
FTSE All World Ex U.S. ..... 100.00

## Index Definitions

| Name | Description |
| :---: | :---: |
| Bloomberg U.S. Corporate High Yield Bond Index | An index that covers the USD-dominated, non-investment grade, fixed rate, taxable corporate bond market. Debt issues from emerging market countries are excluded. Securities are classified as high-yield if the middle rating is Ba1/BB+ or below. |
| Bloomberg Emerging Markets Index | An unmanaged index that tracks total returns for external-currency-denominated debt instruments of the emerging markets. |
| Bloomberg Global Aggregate | Provides a broad-based measure of the global investment-grade fixed income markets. The three major components of this index are the U.S. Aggregate, the Pan-European Aggregate, and the Asian-Pacific Aggregate Indices. The index also includes Eurodollar and Euro-Yen corporate bonds, Canadian government, agency and corporate securities, and USD investment grade 144A securities. |
| Bloomberg Global Treasury Ex-US | The Global Treasury ex US Index is a subset of the flagship Global Treasury Index that does not have any exposure to US debt. This multi-currency benchmark includes investment grade, fixed-rate bonds issued by governments in their native currencies. |
| Bloomberg Universal Index | A market value-weighted index which is the union of the U.S. Aggregate Index, U.S. High Yield Corporate Index, Eurodollar Index, U.S. Emerging Markets Index and the CMBS High Yield Index. The Index is appropriate for core plus fixed income mandates. |
| Bloomberg U.S. Government Index | A market value weighted index of U.S. government and government agency securities (other than mortgage securities) with maturities of one year or more. |
| Bloomberg U.S. Government/Credit Index | A subcomponent of the Capital Aggregate Index, this benchmark includes treasury securities, government related issues, and high-quality corporate bonds with an outstanding par value of $\$ 250$ million or greater and at least one year of maturity remaining. |
| Bloomberg U.S. High Yield Index | An index composed of non-investment grade corporate debt denominated in U.S. dollars. The issues have to have an outstanding par value of $\$ 150$ million or greater and at least one year of maturity remaining. |
| Bloomberg U.S. Inflation Index | Measures the performance of the U.S. Treasury Inflation Protected Securities ("TIPS") market. |
| Bloomberg U.S. Intermediate Aggregate Bond Index | A market value-weighted index consisting of U.S. Treasury securities, corporate bonds and mortgage-related and asset-backed securities with one to ten years to maturity and an outstanding par value of $\$ 250$ million or greater |
| Bloomberg U.S. Intermediate Government/Credit Index | A market-value weighted index consisting of government bonds and SEC-registered corporate bonds with one to ten years to maturity and an outstanding par value of $\$ 150$ million or greater. |
| Bloomberg U.S. Intermediate Government Bond Index | An unmanaged index considered representative of intermediate- term fixed-income obligations issued by the U.S. treasury, government agencies and quasi-federal corporations. |

## Index Definitions

| Name | Description |
| :---: | :---: |
| Bloomberg U.S. Intermediate Treasury | An unmanaged index considered representative of intermediate-term fixed- income obligations issued by the U.S. treasury. |
| Bloomberg U.S. Aggregate Bond Index | A market value-weighted index consisting of government bonds, SEC-registered corporate bonds and mortgagerelated and asset-backed securities with at least one year to maturity and an outstanding par value of $\$ 250$ million or greater. This index is a broad measure of the performance of the investment grade U.S. fixed income market. |
| Bloomberg U.S. Long Credit Bond Index | An unmanaged index considered representative of long-term fixed-income obligations issued by U.S. corporate, specified foreign debentures, and secured notes that meet the specified maturity, liquidity, and quality requirements. To qualify, bonds must be SEC-registered. |
| Bloomberg U.S. Long Government/Credit Index | The Capital U.S. Government/ Credit Bond Index measures performance of U.S. dollar denominated U.S. treasuries, government-related, and investment grade U.S. corporate securities that have a remaining maturity of greater than or equal to 1 year. In addition, the securities have $\$ 250$ million or more of outstanding face value, and must be fixed rate and non-convertible. |
| Bloomberg U.S. Long-Term Government Bond Index | An unmanaged index considered representative of long-term fixed- income obligations issued by the U.S. treasury, government agencies and quasi-federal corporations. |
| Bloomberg U.S. TIPS | A market value-weighted index consisting of U.S. Treasury Inflation Protected Securities with one or more years remaining until maturity with total outstanding issue size of $\$ 500 \mathrm{~m}$ or more. |
| Bloomberg U.S. Treasury 20-30 Year STRIPS Index | A subcomponent of the Aggregate Index, this benchmark includes long-term treasury STRIPS. |
| Bloomberg Commodity Index | Consists of 22 exchange-traded futures on physical commodities, which are weighted to account for economic significance and market liquidity. Performance is calculated on an excess return basis and reflects commodity future price movements. |
| BofA Merrill Lynch 3 Month Treasury Bill | An index that measures the average return of the last three-month U.S. Treasury Bill issues . |
| BofA Merrill Lynch High Yield Master | A market capitalization-weighted index that tracks the performance of U.S. dollar- denominated, below investment grade corporate debt publicly issued in the U.S. domestic market. |

## Index Definitions

| Name | Description |
| :---: | :---: |
| Citigroup 90-Day T-Bill Index | An index that measures the average return of the last three-month U.S. Treasury Bill issues |
| CRSP US Large Growth Cap Index | An index comprised of nearly 330 US large cap growth companies and includes securities traded on NYSE, NYSEMarket, NASDAQ, or ARCA, representing nearly $45 \%$ of the U.S. investable equity market. The index is reconstituted quarterly after the market close on the third Fridays of March, June, September, and December. CRSP classifies growth securities using the following factors: future long-term growth in earnings per share (EPS), future short-term growth in EPS, 3-year historical growth in EPS, 3-year historical growth in sales per share, current investment-to-assets ratio, and return on assets. |
| CRSP US Total Market Index | An index comprised of nearly 4,000 constituents across mega, large, small, and micro capitalizations and includes securities traded on NYSE, NYSE Market, NASDAQ, or ARCA, representing nearly $100 \%$ of the U.S. investable equity market. The index is reconstituted quarterly after the market close on the third Fridays of March, June, September, and December. |
| Credit Suisse Leveraged Loan Index | Designed to mirror the investable universe of the U.S. dollar denominated leveraged loan market. |
| DJ U.S. Completion Total Stock Market Index | A capitalization-weighted index that consists of the stocks in the Dow Jones U.S. Total Stock Market Index less the stocks in the S\&P 500 Stock Index. |
| DJ U.S. Total Stock Market Index | A capitalization-weighted stock index representing all domestic common stocks traded regularly on the organized exchanges. The index is the broadest measure of the aggregate domestic stock market and includes approximately 5,000 stocks. |
| FTSE 4Good U.S. Select Index | A socially responsible investment (SRI) index of US stocks that excludes companies with certain business activities such as weapons, tobacco, gambling, alcohol, nuclear power, and adult entertainment |
| FTSE All-World ex-U.S. Index | A capitalization-weighted stock index representing 46 developed market countries and emerging market countries excluding the U.S. |
| FTSE EPRA NAREIT Global ex-U.S. Index | Designed to represent general trends in eligible real estate equities worldwide. Relevant real estate activities are defined as the ownership, disposure and development of income-producing real estate. |
| FTSE Global All Cap ex US Index | A market-capitalization weighted index representing the performance of roughly 5350 large, mid and small cap companies in 46 Developed and Emerging markets worldwide, excluding the USA. |
| FTSE Global Core Infrastructure Index | Represents the performance of infrastructure and infrastructure-related securities companies in a set of industries that FTSE defines as being involved in infrastructure. The series is based on the FTSE Global Equity Index Series and both developed and emerging markets are included. |

## Index Definitions

| Name | Description |
| :---: | :---: |
| FTSE NAREIT U.S. Equity REITS | Free float adjusted, market capitalization weighted index of US based equity real estate investment trusts (REITs). |
| Goldman Sachs Commodity Index | A composite index of commodity sector returns which represents a broadly diversified, unleveraged, long-only position in commodity futures. |
| HFR Fund-of-Fund Index. | This index is equity-weighted including 800 constituents. It includes both domestic and offshore accounts and is valued in U.S. dollars. Only fund-of-fund products are included in the index that have at least $\$ 50$ million under managements and have been actively trading for at least one year. All funds report net returns on a monthly basis. |
| HFRI Fund Weighted Composite Index | The HFRI Fund Weighted Composite Index is a global, equal-weighted index of over 2,000 single-manager funds that report to HFR Database. Constituent funds report monthly net of all fees performance in US Dollar and have a minimum of $\$ 50$ Million under management or a twelve (12) month track record of active performance. The HFRI Fund Weighted Composite Index does not include Funds of Hedge Funds. |
| Hueler Stable Value Index | The Hueler Analytics Stable Value Pooled Fund Comparative Universe represents investment strategies of \$96 billion in stable value assets, across 24 pooled funds, invested in contracts universe across a universe of 16 general account issuers and 14 synthetic wrap providers. The allocation of pooled fund assets is dominated by synthetic contracts issued by insurance companies and banks. |
| J.P. Morgan EMBI Global Diversified | Comprised of dollar-denominated Brady bonds, traded loans and Eurobonds issued by emerging market sovereign and quasi-sovereign entities. The Diversified version limits the weights of the index countries by only including a specified portion of those countries' eligible current face amounts of debt outstanding, providing for a more even distribution of weights within the countries in the index. |
| iMoneyNet All Taxable Money Funds Index | An index made up of the entire universe of money market mutual funds. The index currently represents over 1,300 funds, or approximately 99 percent of all money fund assets. |
| iMoneyNet Money Fund Average. | An index made up of the entire universe of money market mutual funds. The index currently represents over 1,300 funds, or approximately 99 percent of all money fund assets. |
| MSCI All Country World ex-U.S. Index | A capitalization-weighted index of stocks representing 44 stock markets in Europe, Australia, the Far East, the Middle East, Latin America and North America. Index consists of 23 developed and 21 emerging countries, but excludes the U.S. |
| MSCI All Country World ex-U.S. Index IMI-. | A capitalization-weighted index of large, mid and small cap stocks representing 22 developed (excluding the United States) and 24 emerging market countries. The index is the broadest measure of the aggregate non-US stock market, covering approximately $99 \%$ of the global equity investment opportunity set outside of the United States. |

## Index Definitions

| Name | Description |
| :---: | :---: |
| MSCI All Country World ex-U.S. Small Cap Index | Covers all investable small cap securities with a market capitalization below that of the companies in the MSCI Standard Indices (excluding U.S.), and target approximately $14 \%$ of each market's free-float adjusted market capitalization. |
| MSCI All Country World Index IMI | A capitalization-weighted index of large, mid and small cap stocks representing 23 developed and 24 emerging market countries. The index is the broadest measure of the aggregate global stock market, covering approximately $99 \%$ of the global equity investment opportunity set. |
| MSCI All Country World Index | A capitalization-weighted index of stocks representing 46 stock markets in Europe, Australia, the Far East, the Middle East, Latin America and North America. |
| MSCI EAFE Growth Index | A capitalization-weighted index of 21 stock markets in Europe, Australia, Asia and the Far East designed to capture the growth-oriented companies. |
| MSCI EAFE Small Cap Index | A capitalization-weighted index of small cap stocks representing 23 developed country markets in Europe, Australia, Asia, and the Far East. |
| MSCI EAFE Value Index | A capitalization-weighted index of 21 stock markets in Europe, Australia, Asia and the Far East designed to capture the value-oriented companies. |
| MSCI Emerging Markets Index | A capitalization-weighted index of stocks representing 22 emerging country markets. |
| MSCI U.S. Broad Market Index | A capitalization-weighted stock index that aggregates the MSCI U.S. Large Cap 300, Mid Cap 450, Small Cap 1,750 and Micro-Cap Indices. This index represents approximately $99.5 \%$ of the capitalization of the U.S. Equity market and includes approximately 3,562 companies. |
| MSCI U.S. REIT Index | A broad index that fairly represents the equity REIT opportunity set with proper invest ability screens to ensure that the index is investable and replicable. The index represents approximately $85 \%$ of the U.S. REIT universe |
| MSCI World Index | A free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed markets, representing 24 developed market country indices. |
| NCREIF Property Index | NCREIF Property Index - A capitalization-weighted index of privately owned investment grade income-producing properties representing approximately $\$ 269$ billion in assets. |

## Index Definitions

| Name | Description |
| :---: | :---: |
| NFI ODCE Index | NFI ODCE Index - A capitalization weighted index comprised of open-end, Core funds investing in commercial real estate properties. The funds that constitute the index are subject to certain geographic and property type diversification requirements as well as leverage restrictions. The index reflects the impact of leverage on investment results. The returns shown in this report are net of management fees of the respective funds included in the index. |
| Rolling 3-year Constant Maturity Treasury Index | An index published by the Federal Reserve Board based on the monthly average yield of a range of Treasury securities, all adjusted to the equivalent of a three-year maturity. |
| Russell 1000 Growth Index | An index that measures the performance of those Russell 1000 companies with higher price-to-book ratios and higher I/B/E/S growth forecasts. |
| Russell 1000 Index | A capitalization-weighted index of the 1,000 largest publicly traded U.S. stocks by capitalization. |
| Russell 1000 Value Index. | An index that measures the performance of those stocks included in the Russell 1000 Index with lower price-to-book ratios and lower I/B/E/S earnings growth forecasts. |
| Russell 2000 Growth Index | A capitalization-weighted index of those stocks in the Russell 2000 Index with higher price-to-book ratios and higher I/B/E/S earnings growth forecasts. |
| Russell 2000 Index | A capitalization-weighted index of the smallest 2,000 stocks in the Russell 3000 Index. The index excludes the largestand smallest-capitalization issues in the domestic stock market. |
| Russell 2000 Value Index | An index that measures the performance of those stocks included in the Russell 2000 Index with lower price-to-book ratios and lower I/B/E/S earnings growth forecasts. |
| Russell 2500 Growth Index | A capitalization-weighted index representing those companies within the Russell 2500 Index with higher price-to-book ratios and higher I/B/E/S earnings growth forecasts. |
| Russell 2500 Index | The Index is constructed by first identifying the 3,000 largest-capitalization U.S. stocks and ranking them by market capitalizations, choosing the bottom 2,500 names on the list. |
| Russell 2500 Value Index. | an index that measures the performance of those stocks included in the Russell 2500 Index with lower price-to-book ratios and lower I/B/E/S earnings growth forecasts. |

## Index Definitions

| Name | Description |
| :---: | :---: |
| Russell 3000 Growth Index | A capitalization-weighted index consisting of those Russell 3000 Index stocks that have higher price-to-book ratios and higher I/B/E/S earnings growth forecasts. |
| Russell 3000 Index | A capitalization-weighted index consisting of the 3,000 largest publicly traded U.S. stocks by capitalization. This index is a broad measure of the performance of the aggregate domestic equity market. |
| Russell 3000 Value Index | A capitalization-weighted index consisting of those Russell 3000 Index stocks that have lower price-to-book ratios and lower I/B/E/S earnings growth forecasts. |
| Russell Mid Cap Growth Index | A capitalization-weighted index representing those stocks in the Russell MidCap Index with higher price-to-book ratios and higher I/B/E/S earnings growth forecasts. |
| Russell Mid Cap Value Index | A capitalization-weighted index consisting of those Russell MidCap Index stocks that have lower price-to-book ratios and lower I/B/E/S earnings growth forecasts. |
| S\&P 500 Index | A capitalization-weighted index representing stocks chosen by Standard \& Poor's, Inc. for their size, liquidity, stability and industry group representation. The companies in the S\&P 500 Index are generally among the largest in their industries. |
| S\&P Completion Index | The S\&P Completion Index is a sub-index of the S\&P Total Market Index, including all stocks eligible for the S\&P TMI and excluding all current constituents of the S\&P 500. The index covers approximately 4,000 constituents, offering investors broad exposure to mid, small, and micro-cap companies. |
| S\&P GSCI® | Both the first major investable commodity index and one of the most widely recognized benchmarks, the S\&P GSCI® is broad-based, production weighted, and meant to be representative of the global commodity market beta. |
| S\&P Leverage Loan Index | A daily total return index that uses LSTA/LPC Mark-to-Market Pricing to calculate market value change. |
| S\&P Midcap 400 Index | A market-capitalization-weighted index of stocks in all major industries in the mid-range of the U.S. stock market. |
| Wilshire REIT | A measure of the types of U.S. real estate securities that represent the ownership and operation of commercial or residential real estate. To be included in the index, a company must have a market capitalization of $\$ 200$ million and have at least $75 \%$ of the total revenue derived from the ownership and operation of the real estate assets. <br> - Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect our fees or expenses. <br> - Past performance is no guarantee of future results. <br> - Please feel free to contact us at retirement@aonhewitt.com for more index information. |

## Notes

The rates of return contained in this report are shown on an after-fees basis unless otherwise noted. They are geometric and time weighted. Returns for periods longer than ne year are annualized

Universe percentiles are based upon an ordering system in which 1 is the best ranking and 100 is the worst ranking
Due to rounding throughout the report, percentage totals displayed may not sum up to $100.0 \%$. Additionally, individual fund totals in dollar terms may not sum up to the plan
totals.
 Market Index thereafter.
 Global All Cap Ex U.S. Index thereafter.

## Disclaimer

## Past performance is not necessarily indicative of future results.


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[^1]:    Source: Russell, MSCI, Bloomberg

