SEPTEMBER 13, 2022

AGENDA ITEM 7 INFORMATION ITEM

SCHOLARSHARE INVESTMENT BOARD

Review and Analysis of Investment Performance for ScholarShare 529

Background

The ScholarShare Investment Board (SIB or Board) and its investment consultant, Meketa Investment Group, Inc. (Meketa), monitor all portfolios in ScholarShare 529 (Plan) in accordance with the ScholarShare Monitoring Procedures and Criteria (Procedures) adopted by the Board.

In this item, SIB will review and discuss the "Investment Performance Report" (Exhibit A) for the Plan for second quarter 2022, provided by TIAA-CREF Tuition Financing, Inc., and the "Investment Performance Status Report" (Exhibit B) for second quarter 2022, provided by Meketa. Exhibit B provides comparisons for each underlying fund allocated to the portfolios used in the Plan to applicable benchmark criteria and labels the current status of funds as "positive," "acceptable," "caution," or "watch."

For the second quarter of 2022:

- 10 underlying funds were in the "positive" status,
- 11 underlying funds were in the "acceptable" status, and
- Two (2) underlying funds were in the "caution" status (one of which is on "watch" status).

As outlined in Meketa's memo (Exhibit C),

- One (1) fund, the T. Rowe Price Institutional Large Cap Growth Fund ("Fund"), remains on "watch" status;
- One (1) fund, the TIAA-CREF Emerging Markets Equity Index Fund, qualifies for "watch" status, however, Meketa is not recommending it be placed on "watch" status due to explanation included in its memo dated March 16, 2022, and presented at the March 23, 2022 Board meeting; and
- No new funds qualify for "watch" status.

Presenters

Jeremy Thiessen, Senior Director, Institutional Investment Strategist, TIAA-CREF Tuition Financing, Inc.

Eric White, Principal, Meketa Investment Group, Inc.



Quarterly Investment Performance Report

2nd Quarter 2022

For Institutional client use only. Not for distribution.

Before investing in the ScholarShare 529 College Savings Plan, you should consider the investment objectives, risks, charges, and expenses. The information contained in this report is subject to further change and amendments over time. Some changes may occur due to the result of adjustments. For a prospectus containing this and other information, as well as a Participant Agreement and Disclosure Statement, please call 1-800-544-5248 or view it online at www.scholarshare529.com. Please read these documents carefully before investing.

TIAA-CREF Tuition Financing, Inc., Program Manager. TIAA-CREF Individual & Institutional Services, LLC, member FINRA and SIPC, distributor and underwriter for the ScholarShare 529 College Savings Plan.



Market Overview: Q2 2022

Key Themes

The macro environment in the second quarter was similar to that of the
first, with investors concerned about higher inflation, conflict overseas,
and issues related to business disruption and supply chain normalization.
The Federal Reserve continued to raise interest rates during a volatile
time for both stock and bond markets.

Equities

 Every U.S. sector posted a loss in Q2. Consumer Discretionary was the laggard, falling 26.16% while Consumer staples led with a loss of only 4.62%. Volatility remained high as slowing economic growth weighed on markets domestically and abroad.

Fixed Income

The U.S. Federal Reserve raised interest rates by 75 basis points in June
in an effort to cool inflation, and many expect the Fed Funds target to
travel higher at the next FOMC meeting. Core bond markets continued to
feel pain during this rate rally. Inflation-linked products fared better in this
environment.

Past performance is not indicative of future results. You can not invest directly in an index. U.S. Equities – Russell 3000 Index; U.S. Growth Stocks – Russell 1000 Growth Index; U.S. Value Stocks – Russell 1000 Value Index; U.S. Mid Cap Stocks – Russell Midcap Index; U.S. Small-Cap Stocks – Russell 2000 Index; International Developed Markets – MSCI EAFE Index; Emerging Markets – MSCI Emerging Markets Index; Real Estate Stocks – FTSE NAREIT All Equity REITS Index; U.S. Investment Grade Bonds – Bloomberg Barclays U.S. Aggregate Bond Index; Inflation-Linked Bonds – Bloomberg Barclays TIPS 1-10 Years Index; High Yield Bonds – BofA Merrill Lynch BB/B Cash Pay Index; Commodities - Bloomberg Commodity Index; Cash – Bloomberg Barclays U.S. 3 month Treasury Bellweathers Index. C34631

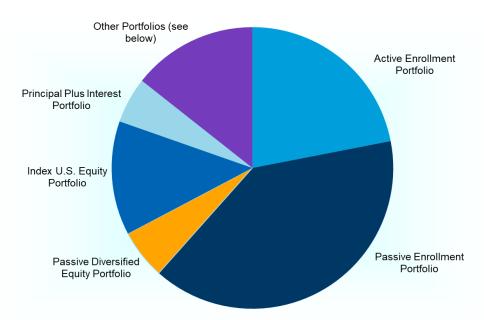
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| Asset Class | 3 Month | 1 Year | 3 Year | 5 Year | |
|---------------------------------|---|--------|--------|--------|--|
| U.S. Equities | -16.70 | -13.87 | 9.77 | 10.60 | |
| U.S. Growth Stocks | -20.92 | -18.77 | 12.58 | 14.29 | |
| U.S. Value Stocks | -12.21 | -6.82 | 6.87 | 7.17 | |
| U.S. Mid-Cap Stocks | -16.85 | -17.30 | 6.59 | 7.96 | |
| U.S. Small-Cap Stocks | -17.20 | -25.20 | 4.21 | 5.17 | |
| Int'l Developed Stocks | -14.51 | -17.77 | 1.07 | 2.20 | |
| Emerging Markets Stocks | -11.45 | -25.28 | 0.57 | 2.18 | |
| Real Estate Stocks | -14.68 | -5.89 | 5.34 | 6.75 | |
| U.S. Investment Grade Bonds | -4.69 | -10.29 | -0.93 | 0.88 | |
| Inflation-Linked Bonds | -3.42 | -2.03 | 3.37 | 3.24 | |
| High Yield Bonds | -9.49 | -12.19 | 0.04 | 2.07 | |
| Commodities | -5.66 | 24.27 | 14.34 | 8.39 | |
| Cash | 0.11 | 0.17 | 0.63 | 1.12 | |
| Annualized Tuition Inflation E | Annualized Tuition Inflation Ending as of | | | | |
| Educational Institution | 1 Year | 3 Year | 5 Year | | |
| National Average Public 4-Year | 1.61 | 1.70 | 2.12 | | |
| National Average Private Nonpro | 2.15 | 2.18 | 2.59 | | |
| Consumer Price Index, June 202 | 9.06 | 4.98 | 3.88 | | |

*Data are for the entire academic year and are average total charges for full-time attendance. Tuition and fees were enrollment weighted. SOURCES: CollegeBoard, Trends in College Pricing 2021 and U.S. Department of Labor: Bureau of Labor Statistics



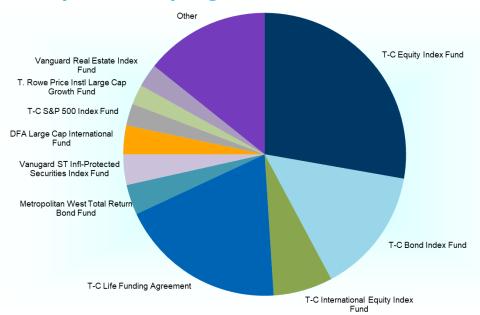
Asset Overview by Portfolio as of Q2 2022 Total Assets: \$11.5 Billion



| Portfolio | % of Assets | \$ Millions | Portfolio | % of Assets | \$ Millions |
|--------------------------------------|-------------|-------------|---------------------------------------|-------------|-------------|
| Passive Enrollment Portfolio | 39.64% | \$4,565 | Passive Diversified Equity Portfolio | 5.70% | \$656 |
| Active Enrollment Portfolio | 21.94% | \$2,527 | Principal Plus Interest Portfolio | 5.26% | \$606 |
| Index U.S. Equity Portfolio | 13.09% | \$1,508 | Other Portfolios (see below) | 14.37% | \$1,655 |
| | | Other P | ortfolios | | |
| Active Diversified Equity Portfolio | 3.20% | \$369 | Index Bond Portfolio | 0.74% | \$85 |
| Active Growth Portfolio | 2.92% | \$336 | Active Conservative Portfolio | 0.70% | \$80 |
| Passive Growth Portfolio | 2.40% | \$277 | Active International Equity Portfolio | 0.32% | \$37 |
| Social Choice Equity Portfolio | 2.06% | \$237 | ESG Enrollment Portfolio | 0.04% | \$5 |
| Index International Equity Portfolio | 1.15% | \$132 | ESG Bond Portfolio | 0.01% | \$1.1 |
| Passive Conservative Portfolio | 0.83% | \$95 | ESG International Equity Portfolio | 0.00% | \$0.5 |



Asset Overview by Underlying Fund as of Q2 2022



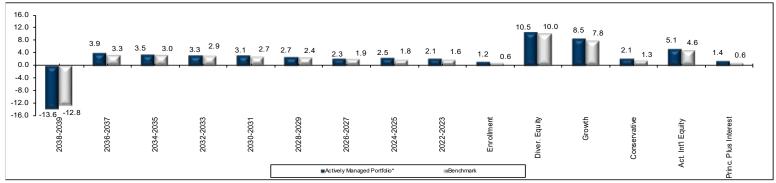
| Fund | % of Assets | \$ Millions | Fund | % of Assets | \$ Millions |
|--|-------------|--------------------|--|-------------|-------------|
| T-C Equity Index Fund | 27.77% | \$3,404 | DFA Large Cap International Fund | 3.30% | \$404 |
| T-C Life Funding Agreement | 19.08% | \$2,340 | Vanguard Real Estate Index Fund | 2.64% | \$324 |
| T-C Bond Index Fund | 14.43% | \$1,769 | T-C S&P 500 Index Fund | 2.52% | \$309 |
| T-C International Equity Index Fund | 6.79% | \$833 | T. Rowe Price Instl Large Cap Growth Fund | 2.29% | \$280 |
| Vanugard ST Infl-Protected Securities Index Fund | 3.48% | \$427 | Other | 14.27% | \$1,749 |
| Metropolitan West Total Return Bond Fund | 3.45% | \$422 | | | |
| | | | | | |
| | | Other Fu | inds | | |
| T. Rowe Price Instl Large Cap Value Fund | 2.37% | \$291 | DFA Emerging Markets Core Equity Portfolio | 0.82% | \$101 |
| PIMCO Income Fund | 1.96% | \$240 | T-C Quant Small Cap Equity Fund | 0.80% | \$98 |
| T-C Social Choice Equity Fund | 1.95% | \$239 | Nuveen ESG US Agg Bond ETF | 0.02% | \$3 |
| PIMCO Real Return Fund | 1.94% | \$238 | T-C Social Choice Int'l Equity Fund | 0.01% | \$0.96 |
| Vanguard High-Yield Corporate Fund | 1.72% | \$211 | Nuveen ESG HY Corp Bond ETF | 0.00% | \$0.17 |
| T-C Emerging Markets Equity Index Fund | 1.71% | \$209 | Nuveen ESG EM Equity ETF | 0.00% | \$0.12 |
| T. Rowe Price Instl Floating Rate Fund | 0.97% | \$119 | | | |



Active Portfolios vs. Composite Benchmarks



Since Inception Returns as of 06/30/22 (%)**



- * Returns are net of most recent weighted average Underlying Fund Fees, Program Management Fees and State Administrative Fees (5 bps).
- ** Inception for the Multi-Fund and Single-Fund Portfolios was 11/4/11 11/10/11. Inception for most Enrollment Year Portfolios was 1/24/20 (inception for 2038-2039 was 6/11/21).
- The U.S. economy gained 372,000 jobs in June and the unemployment rate remained at 3.6%. Notable job gains occurred in education and health services, as well as professional and business services and leisure and hospitality.
- The Conference Board's index of leading economic indicators (LEI) decreased 0.4% in May, following a 0.4% decline in April. This was fueled by tumbling stock prices, a slowdown in housing construction, and gloomier expectations.
- The Federal Open Market Committee raised its target range for the Fed Funds Rate by 75 basis points in June. With inflationary pressure stubbornly high, the market is expecting more hikes in 2022.
- The Active Enrollment Year Portfolios generated negative absolute returns in Q2, with more aggressive portfolios posting lower returns than conservative ones. Portfolios performed in line with their blended benchmarks.
- Nearly all underlying funds saw negative returns in Q2. The T. Rowe Price Large Cap Growth Fund led the decline with returns down more than 22%. The T. Rowe Price Inst'l Floating Rate Fund returned -4.66% in the quarter and helped mitigate losses.

Active Portfolios vs. Composite Benchmarks –Return (%)

| | | | | Average Ann | ual Total Retu | ırn | _ |
|--|------------------------------|------------------------------|------------------------------|-------------|----------------|------------------------------|----------------|
| Investment Portfolios* | 3 Month | YTD | 1 Year | 3 Year | 5 Year | Since Inception | Inception Date |
| Active Enrollment Year Portfolios | | | | | | | |
| 2038/2039 Enrollment Portfolio Active Blended Benchmark Returns Difference | -13.43% -13.58% 0.15% | -17.83% -17.93% 0.10% | -14.39% -13.40% -0.99% | - - - | - - - | -13.63% -12.82% -0.81% | , , |
| 2036/2037 Enrollment Portfolio Active | -13.28% | -17.70% | -14.30% | _ | _ | 3.87% | |
| Blended Benchmark Returns Difference | -13.42% 0.14% | -17.78% 0.08% | -13.27% -1.03% | - - | - - | 3.28% 0.59% | • |
| 2034/2035 Enrollment Portfolio Active Blended Benchmark Returns | -12.98% -12.99% | -17.35% -17.36% | -14.08% -13.02% | - - | - | 3.45% 3.05% | 01/24/20 |
| Difference | 0.01% | 0.01% | -1.06% | - | - | 0.40% | |
| 2032/2033 Enrollment Portfolio Active Blended Benchmark Returns Difference | -12.54% -12.57% 0.03% | -16.91% -16.94% 0.03% | -13.80% -12.75% -1.05% | - - | - - - | 3.25% 2.88% 0.37% | |
| 2030/2031 Enrollment Portfolio Active Blended Benchmark Returns Difference | -12.00% -11.98% -0.02% | -16.37% -16.38% 0.01% | -13.34% -12.37% -0.97% | - - | - - - | 3.13% 2.75% 0.38% | 01/24/20 |
| 2028/2029 Enrollment Portfolio Active Blended Benchmark Returns Difference | -11.07% -10.96% -0.11% | -15.44% -15.38% -0.06% | -12.75% -11.75% -1.00% | - - - | - - - | 2.74% 2.37% 0.37% | 01/24/20 |
| 2026/2027 Enrollment Portfolio Active Blended Benchmark Returns Difference | -9.67% -9.51% -0.16% | -13.94% -13.83% -0.11% | -11.48% -10.69% -0.79% | - - - | - - - | 2.26% 1.87% 0.39% | 01/24/20 |
| 2024/2025 Enrollment Portfolio Active Blended Benchmark Returns Difference | -7.57% -7.47% -0.10% | -11.20% -11.23% 0.03% | -9.15% -8.68% -0.47% | - - - | - - - | 2.50% 1.76% 0.74% | • |
| 2022/2023 Enrollment Portfolio Active Blended Benchmark Returns Difference | -5.39% -5.26% -0.13% | -8.03% -8.08% 0.05% | -6.40% -6.27% -0.13% | - - - | - - - | 2.14% 1.62% 0.52% | • |
| Enrollment Year Portfolio Active Blended Benchmark Returns Difference | -4.19% -4.08% -0.11% | -6.28% -6.41% 0.13% | -4.98% -5.11% 0.13% | - - - | - - - | 1.22% 0.55% 0.67% | , , , |

^{*} Returns are net of most recent weighted average Underlying Fund Fees, Program Management Fees and State Administrative Fees (5 bps).



Active Portfolios vs. Composite Benchmarks –Return (%)

| | | | | Average Ann | ual Total Retu | ırn | _ |
|--|---------|---------|---------|-------------|----------------|-----------------|----------------|
| Investment Portfolios* | 3 Month | YTD | 1 Year | 3 Year | 5 Year | Since Inception | Inception Date |
| Active Multi-Fund Investment Portfolios | | | | | | | |
| Active Diversified Equity Portfolio | -15.41% | -19.81% | -15.93% | 6.75% | 8.00% | 10.46% | 11/04/11 |
| Blended Benchmark Returns | -15.67% | -20.01% | -14.73% | 6.83% | 7.83% | 10.00% | |
| Difference | 0.26% | 0.20% | -1.20% | -0.08% | 0.17% | 0.46% | |
| Active Growth Portfolio | -12.29% | -16.68% | -13.60% | 5.26% | 6.43% | 8.46% | 11/04/11 |
| Blended Benchmark Returns | -12.31% | -16.72% | -12.57% | 5.19% | 6.23% | 7.76% | |
| Difference | 0.02% | 0.04% | -1.03% | 0.07% | 0.20% | 0.70% | |
| Active Conservative Portfolio | -2.72% | -4.79% | -3.99% | 0.98% | 1.64% | 2.13% | 11/04/11 |
| Blended Benchmark Returns | -2.42% | -4.75% | -4.23% | 0.43% | 1.36% | 1.31% | |
| Difference | -0.30% | -0.04% | 0.24% | 0.55% | 0.28% | 0.82% | |
| Active International Equity Portfolio | -12.92% | -17.02% | -16.53% | 2.53% | 2.95% | 5.07% | 11/10/11 |
| Blended Benchmark Returns | -14.02% | -18.51% | -18.47% | 1.56% | 2.64% | 4.58% | |
| Difference | 1.10% | 1.49% | 1.94% | 0.97% | 0.31% | 0.49% | |
| Active Single Fund Investment Portfolios | | | | | | | |
| Principal Plus Interest Portfolio** | 0.26% | 0.52% | 1.05% | 1.40% | 1.41% | 1.35% | 11/04/11 |
| Benchmark Returns | 0.13% | 0.16% | 0.18% | 0.57% | 1.06% | 0.06% | |
| Difference | 0.13% | 0.36% | 0.87% | 0.83% | 0.35% | 1.29% | |

^{*} Returns are net of most recent weighted average Underlying Fund Fees, Program Management Fees and State Administrative Fees (5 bps).



^{**}The crediting rate of 1.00% for the TC Life Funding Agreement in the Principal Plus Interest Portfolio is guaranteed through 12/31/22.

Active Portfolios: Asset Allocation, Fees, and Performance

| Active Enrollment Year Portfolio | Annual Asset Based Fees (bp)* | T. Rowe Price Instl Large Cap Growth Fund | | TIAA-CREF Quant Small Cap Equity Fund | TIAA-CREF S&P 500 Index Fund | DFA Large Cap Int'l Portfolio | DFA Emerging Markets Core Equity I Portfolio | Index | MetWest Total Return Bond Fund | TIAA-CREF Bond Index Fund | PIMCO Real Return Fund | PIMCO Income Fund | T. Rowe Price Instl Floating Rate Fund | T-C Life Funding Agreement |
|-------------------------------------|--|---|--------|---|---------------------------------------|-------------------------------------|--|-------|---|------------------------------------|---------------------------------|-------------------------|--|----------------------------------|
| Underlying Fund Expenses (bp) | | 56 | 56 | 43 | 5 | 18 | 39 | 10 | 38 | 8 | 45 | 50 | 58 | N/A |
| 2038-2039 | 39 | 14.80% | 14.80% | 5.00% | 15.80% | 19.20% | 4.80% | 5.60% | 7.00% | 3.00% | 4.00% | 4.00% | 2.00% | |
| 2036-2037 | 39 | 14.50% | 14.50% | 4.90% | 15.60% | 18.80% | 4.70% | 5.50% | 7.50% | 3.20% | 4.30% | 4.30% | 2.20% | |
| 2034-2035 | 40 | 13.70% | 13.70% | 4.70% | 14.80% | 17.80% | 4.50% | 5.20% | 9.10% | 3.80% | 5.10% | 5.10% | 2.50% | |
| 2032-2033 | 40 | 13.00% | 13.00% | 4.40% | 14.00% | 16.90% | 4.20% | 5.00% | 10.30% | 4.40% | 5.90% | 5.90% | 3.00% | |
| 2030-2031 | 40 | 11.90% | 11.90% | 4.10% | 12.90% | 15.60% | 3.90% | 4.60% | 12.30% | 5.30% | 7.00% | 7.00% | 3.50% | |
| 2028-2029 | 41 | 10.20% | 10.20% | 3.50% | 11.00% | 13.30% | 3.30% | 3.90% | 15.60% | 6.70% | 8.90% | 8.90% | 4.50% | |
| 2026-2027 | 40 | 8.00% | 8.00% | 2.70% | 8.70% | 10.40% | 2.60% | 3.10% | 18.30% | 7.90% | 10.60% | 10.60% | 5.30% | 3.80% |
| 2024-2025 | 35 | 5.80% | 5.80% | 2.00% | 6.40% | 7.60% | 1.90% | 2.20% | 17.10% | 7.30% | 9.80% | 9.80% | 4.90% | 19.40% |
| 2022-2023 | 28 | 3.90% | 3.90% | 1.30% | 4.30% | 5.10% | 1.30% | 1.50% | 13.40% | 5.70% | 7.60% | 7.60% | 3.80% | 40.60% |
| Enrollment | 24 | 2.70% | 2.70% | 1.00% | 3.00% | 3.60% | 0.90% | 1.10% | 12.25% | 5.25% | 7.00% | 7.00% | 3.50% | 50.00% |
| Active Multi-Fund Investment Portfo | <u>lios</u> | | | | | | | | | | | | | |
| Active Diversified Equity Portfolio | 38 | 18.40% | 18.40% | 6.30% | 19.90% | 24.00% | 6.00% | 7.00% | | | | | | |

| Active Diversified Equity Portfolio | 38 | 18.40% | 18.40% | 6.30% | 19.90% | 24.00% | 6.00% | 7.00% | | | | | | |
|---------------------------------------|------|--------|--------|-------|--------|--------|--------|-------|--------|-------|--------|--------|-------|--------|
| Active Growth Portfolio | 40 | 12.50% | 12.50% | 4.30% | 13.60% | 16.30% | 4.00% | 4.80% | 11.20% | 4.80% | 6.40% | 6.40% | 3.20% | |
| Active Conservative Portfolio | 26 | | | | | | | | 17.50% | 7.50% | 10.00% | 10.00% | 5.00% | 50.00% |
| Active International Equity Portfolio | 28 | | | | | 80.00% | 20.00% | | | | | | | |
| Fund's Performance vs Benchmk Q2 2022 | (bp) | (200) | 160 | 69 | 0 | 144 | (35) | (5) | (102) | (3) | (34) | (49) | (10) | 13 |

Glide Path asset allocations are as reflected in the Plan Description.

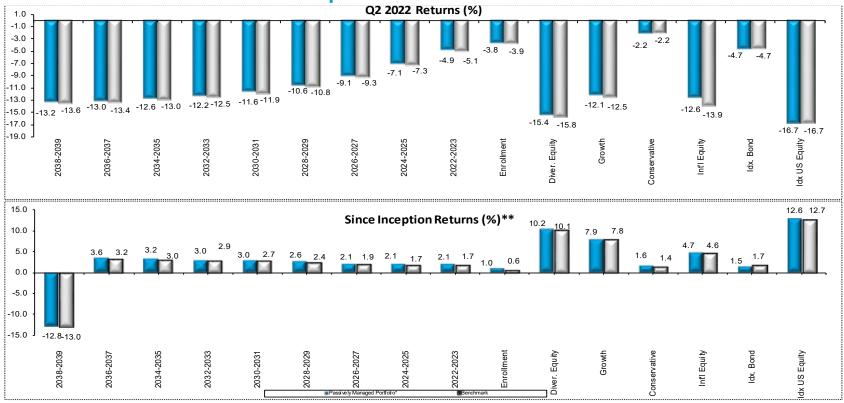
Active Single Fund Investment Portfolios

| Investment Portfolios | Annual Asset Based Fees (bp)* | Percent Allocation | Underlying Mutual Fund | Fund's Performance vs Benchmk Q2 2022 (bp) |
|-----------------------------------|--|-----------------------|--------------------------------------|---|
| Principal Plus Interest Portfolio | N/A | 100.00% | TIAA-CREF Life Co. Funding Agreement | 13 |

^{*} Asset Based Fees include most recent weighted average Underlying Fund Fees, Program Management Fees and State Administrative Fees (5 bps).



Passive Portfolios vs Composite Benchmarks



^{*} Returns are net of most recent weighted average Underlying Fund Fees and Program Management Fees for the quarter, as well as State Administrative Fees (5 bps) before 11/12/13.

- U.S. equity returns were severely impacted by concerns about inflation and the Fed's pace for interest rate hikes. The Russell 3000 Index lost 16.70% in the second guarter.
- Treasury yields rose fairly significantly across the curve. The Bloomberg U.S. Aggregate Bond Index of intermediate-term investment grade U.S. bonds returned -4.69% in another challenging quarter for fixed income investors.
- All eleven GIC sectors lost ground in Q2. Consumer Staples (-4.62%) was the leader, while Consumer Discretionary (-26.16%) lagged.
- Based on respective Russell indexes, small cap companies underperformed the broad large cap market. Value stocks (-12.21%) beat growth stocks (-20.92%), continuing a trend seen in the first quarter.
- Similar to the Active lineup, the Passive Enrollment Year Portfolios posted negative absolute returns in Q2.
- More conservative allocations in the Enrollment Year Portfolios had higher returns than more aggressive portfolios.
- The TIAA-CREF Life Funding Agreement continued to credit a guaranteed crediting rate of return and benefited investors.



^{**} Inception for the Multi-Fund and Single-Fund Portfolios was 11/4/11 - 11/8/11. Inception for most Enrollment Year Portfolios was 1/24/20 (inception for 2038-2039 was 6/11/21).

Passive Portfolios vs. Composite Benchmarks

| | | | | Average Annua | al Total Retur | n | _ |
|--|---------|---------|---------|---------------|----------------|-----------|----------------|
| | | | | | | Since | |
| Investment Portfolios* | 3 Month | YTD | 1 Year | 3 Year | 5 Year | Inception | Inception Date |
| Passive Enrollment Year Portfolios | | | | | | | |
| 2038/2039 Enrollment Portfolio Passive | -13.23% | -17.91% | -13.40% | - | - | -12.77% | 06/11/21 |
| Blended Benchmark Returns | -13.57% | -18.22% | -13.59% | - | - | -13.00% | |
| Difference | 0.34% | 0.31% | 0.19% | - | - | 0.23% | |
| 2036/2037 Enrollment Portfolio Passive | -13.02% | -17.81% | -13.37% | - | - | 3.56% | 01/24/20 |
| Blended Benchmark Returns | -13.40% | -18.06% | -13.46% | - | - | 3.24% | |
| Difference | 0.38% | 0.25% | 0.09% | - | - | 0.32% | |
| 2034/2035 Enrollment Portfolio Passive | -12.62% | -17.37% | -13.04% | - | - | 3.21% | 01/24/20 |
| Blended Benchmark Returns | -12.96% | -17.62% | -13.20% | - | - | 3.02% | |
| Difference | 0.34% | 0.25% | 0.16% | - | - | 0.19% | |
| 2032/2033 Enrollment Portfolio Passive | -12.18% | -16.94% | -12.82% | - | - | 2.97% | 01/24/20 |
| Blended Benchmark Returns | -12.51% | -17.18% | -12.92% | - | - | 2.85% | |
| Difference | 0.33% | 0.24% | 0.10% | - | - | 0.12% | |
| 2030/2031 Enrollment Portfolio Passive | -11.60% | -16.36% | -12.47% | - | - | 2.97% | 01/24/20 |
| Blended Benchmark Returns | -11.90% | -16.58% | -12.52% | - | - | 2.73% | |
| Difference | 0.30% | 0.22% | 0.05% | - | - | 0.24% | |
| 2028/2029 Enrollment Portfolio Passive | -10.58% | -15.27% | -11.76% | - | - | 2.62% | 01/24/20 |
| Blended Benchmark Returns | -10.84% | -15.53% | -11.85% | - | - | 2.38% | |
| Difference | 0.26% | 0.26% | 0.09% | - | - | 0.24% | |
| 2026/2027 Enrollment Portfolio Passive | -9.07% | -13.62% | -10.69% | - | - | 2.14% | 01/24/20 |
| Blended Benchmark Returns | -9.32% | -13.90% | -10.76% | - | - | 1.91% | , , |
| Difference | 0.25% | 0.28% | 0.07% | - | - | 0.23% | |
| 2024/2025 Enrollment Portfolio Passive | -7.07% | -11.00% | -8.52% | - | - | 2.10% | 01/24/20 |
| Blended Benchmark Returns | -7.30% | -11.27% | -8.97% | - | - | 1.67% | , , |
| Difference | 0.23% | 0.27% | 0.45% | - | - | 0.43% | |
| 2022/2023 Enrollment Portfolio Passive | -4.88% | -7.79% | -5.90% | - | - | 2.14% | 01/24/20 |
| Blended Benchmark Returns | -5.11% | -8.10% | -6.24% | - | - | 1.68% | - , , , |
| Difference | 0.23% | 0.31% | 0.34% | - | - | 0.46% | |
| Enrollment Year Portfolio Passive | -3.76% | -6.06% | -4.57% | _ | - | 0.98% | 01/24/20 |
| Blended Benchmark Returns | -3.94% | -6.39% | -5.12% | - | - | 0.55% | , , |
| Difference | 0.18% | 0.33% | 0.55% | - | - | 0.43% | |

^{*} Returns are net of most recent weighted average Underlying Fund Fees and Program Management Fees for the quarter.



Passive Portfolios vs. Composite Benchmarks

| | | | | Average Annua | al Total Returi | า | _ |
|---|------------|---------|---------|---------------|-----------------|--------------------|----------------|
| Investment Portfolios* | 3 Month | YTD | 1 Year | 3 Year | 5 Year | Since Inception | Inception Date |
| · | 3 10011111 | 110 | I Tear | 3 Teal | 3 Teal | Посретон | meeption bate |
| Passive Multi-Fund Investment Portfolios | 1= 0=0/ | | 11000 | | | 10.100/ | |
| Passive Diversified Equity Portfolio | -15.37% | -20.23% | -14.88% | 7.06% | 8.00% | 10.16% | 11/04/11 |
| Blended Benchmark Returns | -15.76% | -20.42% | -14.98% | 6.85% | 7.85% | 10.09% | |
| Difference | 0.39% | 0.19% | 0.10% | 0.21% | 0.15% | 0.07% | |
| Passive Growth Portfolio | -12.10% | -16.86% | -12.82% | 5.28% | 6.26% | 7.85% | 11/04/11 |
| Blended Benchmark Returns | -12.46% | -17.12% | -12.90% | 5.11% | 6.20% | 7.82% | |
| Difference | 0.36% | 0.26% | 0.08% | 0.17% | 0.06% | 0.03% | |
| Passive Conservative Portfolio | -2.16% | -4.38% | -3.76% | 0.72% | 1.43% | 1.56% | 11/04/11 |
| Blended Benchmark Returns | -2.18% | -4.62% | -4.19% | 0.43% | 1.36% | 1.36% | |
| Difference | 0.02% | 0.24% | 0.43% | 0.29% | 0.07% | 0.20% | |
| Index International Equity Portfolio | -12.56% | -18.61% | -18.89% | 1.23% | 2.40% | 4.73% | 11/04/11 |
| Blended Benchmark Returns | -13.90% | -19.16% | -19.27% | 1.06% | 2.27% | 4.62% | |
| Difference | 1.34% | 0.55% | 0.38% | 0.17% | 0.13% | 0.11% | |
| Passive Single Fund Investment Portfolios | | | | | | | |
| Index Bond Portfolio | -4.71% | -10.31% | -10.45% | -1.08% | 0.70% | 1.52% | 11/04/11 |
| Benchmark Returns | -4.69% | -10.35% | -10.29% | -0.93% | 0.88% | 1.72% | |
| Difference | -0.02% | 0.04% | -0.16% | -0.15% | -0.18% | -0.20% | |
| Index U.S. Equity Portfolio | -16.68% | -21.07% | -13.86% | 9.74% | 10.55% | 12.64% | 11/04/11 |
| Benchmark Returns | -16.70% | -21.10% | -13.87% | 9.77% | 10.60% | 12.69% | |
| Difference | 0.02% | 0.03% | 0.01% | -0.03% | -0.05% | -0.05% | |

^{*} Returns are net of most recent weighted average Underlying Fund Fees and Program Management Fees for the quarter, as well as State Administrative Fees (5 bps) before 11/12/13.

Passive Portfolios: Asset Allocation, Fees, and Performance

| Passive Enrollment Year Portfolios | Annual Asset Based Fees (bp)* | TIAA-CREF Equity Index Fund | TIAA-CREF International Equity Index Fund | | Vanguard Real Estate Index Fund | TIAA-CREF Bond Index Fund | Vanguard Shrt-Term Infl-Prot Sec Index Fund | Vanguard High-Yield Corporate Fund | T-C Life Funding Agreement |
|--|---|-----------------------------------|--|--------|---------------------------------------|---------------------------------|--|---|----------------------------------|
| Underlying Fund Expenses (bp) | | 5 | 5 | 18 | 10 | 8 | 4 | 13 | N/A |
| 2038-2039 | 7 | 50.40% | 19.20% | 4.80% | 5.60% | 14.00% | 4.00% | 2.00% | |
| 2036-2037 | 7 | 49.40% | 18.80% | 4.70% | 5.50% | 15.10% | 4.30% | 2.20% | |
| 2034-2035 | 8 | 47.00% | 17.80% | 4.50% | 5.20% | 17.80% | 5.10% | 2.60% | |
| 2032-2033 | 8 | 44.40% | 16.90% | 4.20% | 4.90% | 20.70% | 5.90% | 3.00% | |
| 2030-2031 | 8 | 40.90% | 15.60% | 3.90% | 4.60% | 24.50% | 7.00% | 3.50% | |
| 2028-2029 | 8 | 35.00% | 13.20% | 3.30% | 3.90% | 31.20% | 8.90% | 4.50% | |
| 2026-2027 | 8 | 27.30% | 10.40% | 2.60% | 3.10% | 36.90% | 10.60% | 5.30% | 3.80% |
| 2024-2025 | 7 | 20.10% | 7.60% | 1.90% | 2.20% | 34.10% | 9.80% | 4.90% | 19.40% |
| 2022-2023 | 5 | 13.30% | 5.20% | 1.30% | 1.50% | 26.70% | 7.60% | 3.80% | 40.60% |
| Enrollment | 5 | 9.40% | 3.60% | 0.90% | 1.10% | 24.50% | 7.00% | 3.50% | 50.00% |
| Passive Multi-Fund Investment Portfolios | | | | | | | | | |
| Passive Diversified Equity Portfolio | 7 | 63.00% | 24.00% | 6.00% | 7.00% | | | | |
| Passive Growth Portfolio | 8 | 44.10% | 16.80% | 4.20% | 4.90% | 21.00% | 6.00% | 3.00% | |
| Passive Conservative Portfolio | 5 | | | | | 35.00% | 10.00% | 5.00% | 50.00% |
| Index International Equity Portfolio | 9 | | 80.00% | 20.00% | | | | | |
| Fund's Performance vs Benchmk Q2 2022 (bp) | | 3 | 138 | 131 | (5) | (3) | (2) | 79 | 13 |

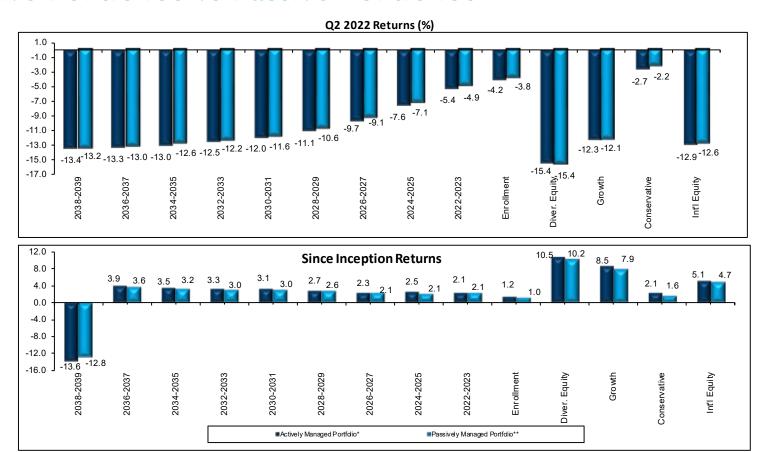
Glide Path asset allocations are as reflected in the Plan Description.

| Passive Investment Portfolios | Annual Asset Based Fees (bp)* | Percent Allocation | Underlying N | futual Fund | Fund's Performance vs Benchmk Q2 2022 (bp) |
|-------------------------------|-------------------------------|-----------------------|-----------------------------|-------------|---|
| Index Bond Portfolio | 9 | 100.00% | TIAA-CREF Bond Index Fund | | (3) |
| Index U.S. Equity Portfolio | 6 | 100.00% | TIAA-CREF Equity Index Fund | | 3 |

^{*} Asset Based Fees include most recent weighted average Underlying Fund Fees and Program Management Fees.



Active Portfolios vs Passive Portfolios



^{*} Returns are net of most recent weighted average Underlying Fund Fees, Program Management Fees, and State Administrative Fees (5 bps).

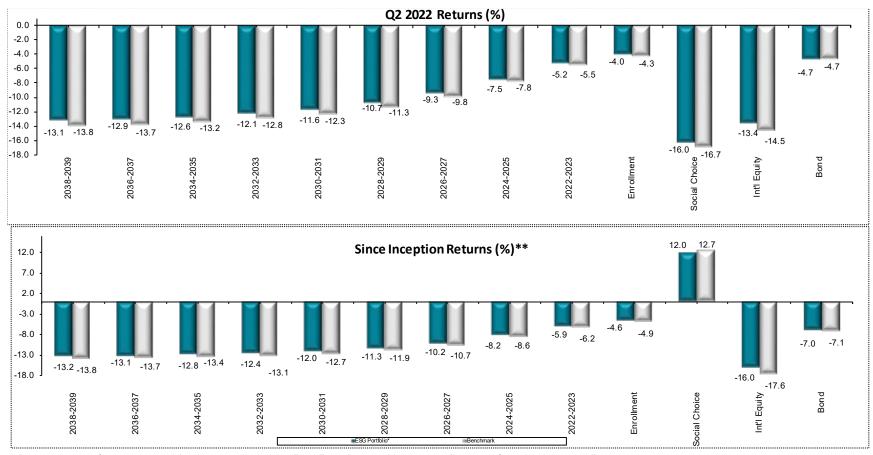
- In Q2, Passive Portfolios outperformed Active Portfolios.
- The primary reason for underperformance in the Active Portfolios was the T. Rowe Price Large Cap Growth Fund, which contains larger allocations across the portfolios and trailed its benchmark by 200 basis points.
- · Since inception, most Active Portfolios modestly outperform their Passive counterparts for portfolios with longer history.



^{**} Returns are net of most recent weighted average Underlying Fund Fees, Program Management Fees, and State Administrative Fees (5 bps) before 11/12/13.

^{***} Inception for the Multi-Fund and Single-Fund Portfolios was 11/4/11 - 11/10/11. Inception for most Enrollment Year Portfolios was 1/24/20 (2038-2039 was incepted 6/11/21).

ESG Portfolios vs Composite Benchmarks



^{*} Returns are net of most recent weighted average Underlying Fund Fees, Program Management Fees, and State Administrative Fees.

- Returns for the ESG Portfolios were roughly in line with those of the Passive Portfolios as they include many of the same asset classes.
- Since inception on February 11, 2022, returns for the ESG Enrollment Year Investment Portfolios reflect the broad market downturns that investors have experienced during this time.

^{**} Inception for most ESG Portfolios was 2/11/22 (inception for the Social Choice Equity Portfolio was 11/04/11).

ESG Portfolios vs. Composite Benchmarks

| | | | | Average Ann | ual Total Retu | rn | _ |
|---|------------------|-------------------|--------------|-------------|----------------|-----------------|----------------|
| Investment Portfolios* | 3 Month | YTD | 1 Year | 3 Year | 5 Year | Since Inception | Inception Date |
| ESG Enrollment Year Portfolios | | | | | | | |
| 2038/2039 Enrollment Portfolio ESG | -13.11% | - | - | - | - | -13.20% | 02/11/22 |
| Blended Benchmark Returns | -13.81% | - | - | - | - | -13.84% | |
| Difference | 0.70% | - | - | - | - | 0.64% | |
| 2036/2037 Enrollment Portfolio ESG | -12.93% | - | - | = | - | -13.10% | 02/11/22 |
| Blended Benchmark Returns | -13.66% | - | - | - | - | -13.72% | |
| Difference | 0.73% | - | - | - | - | 0.62% | |
| 2034/2035 Enrollment Portfolio ESG | -12.63% | - | - | - | - | -12.80% | 02/11/22 |
| Blended Benchmark Returns | -13.25% | - | - | - | - | -13.40% | |
| Difference | 0.62% | - | - | - | - | 0.60% | |
| 2032/2033 Enrollment Portfolio ESG | -12.14% | _ | _ | - | - | -12.40% | 02/11/22 |
| Blended Benchmark Returns | -12.84% | - | _ | - | - | -13.09% | ,, |
| Difference | 0.70% | - | - | - | - | 0.69% | |
| 2030/2031 Enrollment Portfolio ESG | -11.56% | _ | _ | _ | _ | -12.00% | 02/11/22 |
| Blended Benchmark Returns | -12.27% | = | _ | = | = | -12.66% | 02/11/22 |
| Difference | 0.71% | _ | _ | - | - | 0.66% | |
| 2028/2029 Enrollment Portfolio ESG | -10.67% | | | | | -11.30% | 02/11/22 |
| Blended Benchmark Returns | -10.07% | - | - | - | - | -11.90% | 02/11/22 |
| Difference | 0.60% | _ | - | _ | _ | 0.60% | |
| 2026/2027 Enrollment Portfolio ESG | -9.29% | | | | | -10.20% | 00/44/00 |
| Blended Benchmark Returns | -9.29% -9.82% | - | - | - | - | -10.20% | 02/11/22 |
| Difference | 0.53% | - | - | - | - | 0.49% | |
| | | - | - | _ | _ | | 00 (44 (0) |
| 2024/2025 Enrollment Portfolio ESG | -7.46% | - | - | - | - | -8.20% | 02/11/22 |
| Blended Benchmark Returns Difference | -7.76% 0.30% | - - | - | - | - | -8.63% 0.43% | |
| 2022/2023 Enrollment Portfolio ESG | -5.24% | - | - | - | - | -5.90% | 02/11/22 |
| Blended Benchmark Returns | -5.47% | - | - | = | - | -6.17% | |
| Difference | 0.23% | - | - | - | - | 0.27% | |
| Enrollment Year Portfolio ESG | -4.02% | - | _ | - | - | -4.60% | 02/11/22 |
| Blended Benchmark Returns | -4.26% | - | - | = | - | -4.94% | |
| Difference | 0.24% | - | - | = | - | 0.34% | |
| ESG Single Fund Investment Portfolios | | | | | | | |
| Social Choice Equity Portfolio | -16.04% | -21.58% | -14.52% | 9.83% | 10.37% | 11.98% | 11/04/11 |
| Benchmark Returns | -16.70% | -21.10% | -13.87% | 9.77% | 10.60% | 12.69% | |
| Difference | 0.66% | -0.48% | -0.65% | 0.06% | -0.23% | -0.71% | |
| ESG International Equity Portfolio | -13.40% | - | - | - | - | -16.00% | 02/11/22 |
| Benchmark Returns | -14.51% | - | - | - | - | -17.61% | . , |
| Difference | 1.11% | - | - | - | - | 1.61% | |
| ESG Bond Portfolio | -4.71% | - | - | - | - | -7.00% | 02/11/22 |
| Benchmark Returns | -4.69% | - | - | - | - | -7.15% | ,, - |
| Difference | -0.02% | - | _ | - | - | 0.15% | |

^{*} Returns are net of most recent weighted average Underlying Fund Fees, Program Management Fees, and State Administrative Fees. The crediting rate of 1.00% for the TC Life Funding Agreement in the ESG Enrollment Year Portfolios is guaranteed through 12/31/22.



ESG Portfolios: Asset Allocation Fees, and Performance

| ESG Enrollment Year Portfolios | Annual Asset Based Fees (bp)* | TIAA-CREF Social Choice Equity Fund | TIAA-CREF Social Choice International Equity Fund | Nuveen ESG Emerging Markets Equity ETF | Nuveen ESG US Aggregate Bond ETF | Nuveen ESG High Yield Corporate Bond ETF | TIAA-CREF Life Funding Agreement |
|--|---|---|--|---|--|---|--|
| Underlying Fund Expenses (bp) | | 17 | 36 | 35 | 15 | 30 | N/A |
| 2038-2039 | 27 | 56.00% | 19.20% | 4.80% | 18.00% | 2.00% | |
| 2036-2037 | 27 | 55.00% | 18.80% | 4.70% | 19.30% | 2.20% | |
| 2034-2035 | 27 | 52.20% | 17.80% | 4.50% | 22.90% | 2.60% | |
| 2032-2033 | 27 | 49.40% | 16.90% | 4.20% | 26.50% | 3.00% | |
| 2030-2031 | 26 | 45.60% | 15.60% | 3.90% | 31.50% | 3.40% | |
| 2028-2029 | 26 | 38.90% | 13.30% | 3.30% | 40.10% | 4.40% | |
| 2026-2027 | 25 | 30.50% | 10.40% | 2.60% | 47.50% | 5.20% | 3.80% |
| 2024-2025 | 21 | 22.30% | 7.60% | 1.90% | 43.90% | 4.90% | 19.40% |
| 2022-2023 | 17 | 14.90% | 5.10% | 1.30% | 34.30% | 3.80% | 40.60% |
| Enrollment | 15 | 10.50% | 3.60% | 0.90% | 31.50% | 3.50% | 50.00% |
| Fund's Performance vs Benchmk Q2 2022 (bp) | | 67 | 111 | (6) | 2 | 3 | 13 |

Glide Path asset allocations are as reflected in the Plan Description.

| ESG Single Fund Investment Portfolios | Annual Asset Based Fees (bp)* | Percent Allocation | Underlying Fund | Fund's Performance vs Benchmk Q2 2022 (bp) |
|---------------------------------------|---|-----------------------|---|---|
| Social Choice Equity Portfolio | 23 | 100.00% | TIAA-CREF Social Choice Equity Fund | 67 |
| ESG International Equity Portfolio | 42 | 100.00% | TIAA-CREF Social Choice International Equity Fund | (3) |
| ESG Bond Portfolio | 21 | 100.00% | Nuveen ESG US Aggregate Bond ETF | 3 |

^{*} Asset Based Fees include most recent weighted average Underlying Fund Fees, Program Management Fees, and State Administrative Fees.



Underlying Funds vs. Benchmarks

| | | | | Average Annual | Total Return | | _ | |
|---|---------|---------|---------|----------------|--------------|--------|-----------------|------------|
| TIAA-CREF FUNDS | | | | | | | 3-Year Standard | |
| | 3 Month | YTD | 1 Year | 3 Year | 5 Year | Life | Deviation | Date |
| T-C Bond Index Fund | -4.72% | -10.33% | -10.46% | -1.07% | 0.72% | 2.38% | 4.60% | 09/14/2009 |
| Bloomberg U.S. Aggregate Bond Index | -4.69% | -10.35% | -10.29% | -0.93% | 0.88% | 2.56% | 4.56% | |
| Difference | -0.03% | 0.02% | -0.17% | -0.14% | -0.16% | -0.18% | | |
| T-C Emerging Markets Equity Index Fund* | -10.14% | -16.98% | -25.21% | 0.48% | 2.06% | 2.41% | 18.13% | 08/31/2010 |
| MSCI Emerging Markets® Index | -11.45% | -17.63% | -25.28% | 0.57% | 2.18% | 2.68% | 18.17% | |
| Difference | 1.31% | 0.65% | 0.07% | -0.09% | -0.12% | -0.27% | | |
| T-C Equity Index Fund | -16.67% | -21.06% | -13.85% | 9.74% | 10.57% | 6.66% | 19.32% | 07/01/1999 |
| Russell 3000 Index | -16.70% | -21.10% | -13.87% | 9.77% | 10.60% | 6.72% | 19.37% | |
| Difference | 0.03% | 0.04% | 0.02% | -0.03% | -0.03% | -0.06% | | |
| T-C International Equity Index Fund* | -13.13% | -19.01% | -17.28% | 1.34% | 2.37% | 6.60% | 17.93% | 10/01/2002 |
| MSCI EAFE Index | -14.51% | -19.57% | -17.77% | 1.07% | 2.20% | 6.51% | 18.01% | |
| Difference | 1.38% | 0.56% | 0.49% | 0.27% | 0.17% | 0.09% | | |
| T-C S&P 500 Index Fund | -16.10% | -19.95% | -10.64% | 10.56% | 11.26% | 9.96% | 18.62% | 10/01/2002 |
| S&P 500 Index | -16.10% | -19.96% | -10.62% | 10.60% | 11.31% | 10.04% | 18.64% | |
| Difference | 0.00% | 0.01% | -0.02% | -0.04% | -0.05% | -0.08% | | |
| T-C Quant Small Cap Equity Fund | -16.51% | -21.20% | -19.61% | 5.19% | 5.93% | 9.85% | 25.05% | 10/01/2002 |
| Russell 2000 Index | -17.20% | -23.43% | -25.20% | 4.21% | 5.17% | 9.52% | 24.26% | |
| Difference | 0.69% | 2.23% | 5.59% | 0.98% | 0.76% | 0.33% | | |
| T-C Social Choice Equity Fund | -16.03% | -21.56% | -14.46% | 9.90% | 10.45% | 6.48% | 19.16% | 07/01/1999 |
| Russell 3000 Index | -16.70% | -21.10% | -13.87% | 9.77% | 10.60% | 6.72% | 19.37% | |
| Difference | 0.67% | -0.46% | -0.59% | 0.13% | -0.15% | -0.24% | | |
| T-C Social Choice International Equity Fund* | -13.40% | -19.14% | -16.18% | 2.37% | 2.90% | 3.28% | | 12/04/2015 |
| MSCI EAFE Index | -14.51% | -19.57% | -17.77% | 1.07% | 2.20% | 2.51% | 18.01% | |
| Difference | 1.11% | 0.43% | 1.59% | 1.30% | 0.70% | 0.77% | | |
| Nuveen ESG Emerging Markets Equity ETF | -11.27% | -15.56% | -24.51% | 3.33% | 3.38% | 3.36% | | 06/06/2017 |
| TIAA ESG Emerging Markets Equity Index | -11.21% | -15.45% | -24.11% | 4.11% | 4.14% | 4.13% | 18.33% | |
| Difference | -0.06% | -0.11% | -0.40% | -0.78% | -0.76% | -0.77% | | |
| Nuveen ESG US Aggregate Bond ETF | -4.72% | -10.31% | -10.48% | -1.24% | - | 0.48% | | 09/29/2017 |
| Bloomberg MSCI US Aggregate ESG Select Index | -4.74% | -10.38% | -10.32% | -0.88% | - | - | 4.55% | |
| Difference | 0.02% | 0.07% | -0.16% | -0.36% | - | - | | |
| Nuveen ESG High Yield Corporate Bond ETF | -11.01% | -14.87% | -13.88% | - | - | - | - | 09/25/2019 |
| Bloomberg MSCI U.S. HY Very Liquid ESG Select Index | -11.04% | -14.84% | -13.47% | - | - | - | - | |
| Difference | 0.03% | -0.03% | -0.41% | - | - | - | - | |



Underlying Funds vs. Benchmarks

| Average An | nual Tota | al Return |
|------------|-----------|-----------|
|------------|-----------|-----------|

| | | - | | | | | 3-Year Standard | |
|---|---------|--------------|---------|--------|--------|--------|-----------------|------------|
| DFA FUNDS | 3 Month | YTD | 1 Year | 3 Year | 5 Year | Life | Deviation | Date |
| DFA Emerging Markets Core Equity Portfolio* | -11.80% | -15.12% | -19.75% | 2.71% | 2.91% | 6.59% | 19.81% | 04/05/2005 |
| MSCI Emerging Markets® Index | -11.45% | -17.63% | -25.28% | 0.57% | 2.18% | 6.02% | 18.17% | |
| Difference | -0.35% | 2.51% | 5.53% | 2.14% | 0.73% | 0.57% | | |
| DFA Large Cap International Portfolio* | -13.22% | -17.50% | -15.71% | 2.47% | 3.01% | 5.28% | 18.45% | 07/17/1991 |
| MSCI World Ex US Index | -14.66% | -18.76% | -16.76% | 1.70% | 2.66% | 5.28% | 18.23% | |
| Difference | 1.44% | 1.26% | 1.05% | 0.77% | 0.35% | 0.00% | | |
| METWEST FUNDS | | | | | | | | |
| MetWest Total Return Bond Fund | -5.71% | -11.59% | -11.55% | -0.71% | 1.12% | 2.69% | 4.88% | 07/01/1999 |
| Bloomberg U.S. Aggregate Bond Index | -4.69% | -10.35% | -10.29% | -0.93% | 0.88% | 1.94% | 4.56% | |
| Difference | -1.02% | -1.24% | -1.26% | 0.22% | 0.24% | 0.75% | | |
| PIMCO FUNDS | | | | | | | | |
| PIMCO Income Fund | -5.18% | -9.16% | -8.48% | 0.33% | 2.04% | 6.75% | 6.55% | 03/30/2007 |
| Bloomberg U.S. Aggregate Bond Index | -4.69% | -10.35% | -10.29% | -0.93% | 0.88% | 3.17% | 4.56% | |
| Difference | -0.49% | 1.19% | 1.81% | 1.26% | 1.16% | 3.58% | | |
| PIMCO Real Return Fund | -6.42% | -9.26% | -5.84% | 3.13% | 3.19% | 5.39% | 5.18% | 01/29/1997 |
| Bloomberg U.S. TIPS Index | -6.08% | -8.92% | -5.14% | 3.04% | 3.21% | - | 5.02% | |
| Difference | -0.34% | -0.34% | -0.70% | 0.09% | -0.02% | - | | |
| T. ROWE PRICE FUNDS | | | | | | | | |
| T. Rowe Price Instl Floating Rate Fund | -4.66% | -4.93% | -3.21% | 1.63% | 2.58% | 4.37% | 7.52% | 01/31/2008 |
| S&P/LSTA Performing Loan Index | -4.56% | -4.65% | -2.82% | 2.26% | 3.07% | 4.66% | 9.10% | |
| Difference | -0.10% | -0.28% | -0.39% | -0.63% | -0.49% | -0.29% | | |
| T. Rowe Price Large Cap Growth Fund | -22.92% | -33.13% | -29.39% | 7.73% | 12.16% | 10.29% | 21.33% | 10/31/2001 |
| Russell 1000 Growth Index | -20.92% | -28.07% | -18.77% | 12.58% | 14.29% | 9.22% | 21.09% | |
| Difference | -2.00% | -5.06% | -10.62% | -4.85% | -2.13% | 1.07% | | |
| T. Rowe Price Large Cap Value Fund | -10.61% | -9.90% | -3.97% | 8.42% | 7.96% | 8.19% | 19.94% | 3/31/2000 |
| Russell 1000 Value Index | -12.21% | -12.86% | -6.82% | 6.87% | 7.17% | 6.83% | 19.46% | |
| Difference | 1.60% | 2.96% | 2.85% | 1.55% | 0.79% | 1.36% | | |
| VANGUARD FUNDS | | | | | | | | |
| Vanugard ST Infl-Protected Securities Index Fund | -1.12% | -1.42% | 0.99% | 3.41% | 2.95% | 1.58% | 2.21% | 10/16/2012 |
| Bloomberg US TIPS 0-5 Year Index | -1.10% | -1.40% | 1.06% | 3.46% | 2.99% | 1.58% | 2.28% | |
| Difference | -0.02% | -0.02% | -0.07% | -0.05% | -0.04% | 0.00% | | |
| Vanguard Real Estate Index Fund | -15.48% | -20.50% | -8.03% | 4.78% | 5.73% | 8.53% | 20.14% | 12/2/2003 |
| MSCI US Investable Market Real Estate 25/50 Index | -15.43% | -20.47% | -7.94% | 4.88% | | - | 20.14% | |
| Difference | -0.05% | -0.03% | -0.09% | -0.10% | - | - | | |
| Vanguard High-Yield Corporate Fund | -8.62% | -12.46% | -11.22% | 0.00% | 1.95% | 5.69% | 8.93% | 11/12/2001 |
| Bloomberg US HY Ba/B 2% Issuer Cap TR USD | -9.41% | -13.88% | -12.44% | 0.43% | 2.32% | 6.55% | 9.65% | |
| Bloomberg US Corporate High Yield Index | -9.83% | -14.19% | -12.81% | 0.21% | 2.10% | - | 10.11% | |
| Difference | 0.79% | 1.42% | 1.22% | -0.43% | -0.37% | -0.86% | | |







ScholarShare 529 College Savings Plan

September 13, 2022

2Q 2022 Investment Performance Status Report



ScholarShare 529 College Savings Plan

Agenda

- 1. Economic and Market Update
- 2. Review of ScholarShare Policy
- 3. Sensitivity Analyses
- 4. Summary Points
- 5. Enrollment Date Fund Performance
- 6. Appendix



Takeaways

- → Additional funds were added to the ScholarShare program as of February 11th, 2022. Now that the new funds have a full quarter of performance, they are included in the formal monitoring process within the ScholarShare program and are included in the Q2 performance report.
- → Markets saw continued volatility through the second quarter of 2022 as both stocks and bonds have seen significant declines. Concern around slowing economic growth, global inflation and the anticipated response by respective central banks have been the primary headwinds this year. Through June, year to date performance for US Equities (S&P 500) has been the third worst start to a calendar year, whereas US bonds (Bloomberg US Agg) has been the worst on record.
- → Equities posted sharply negative returns over the quarter. Domestically, US Small Cap outperformed US Large Cap while value slightly outperformed growth for the quarter. T. Rowe Price Large Cap Value was the top performing actively managed equity fund for the quarter, returning -10.6%. Emerging Markets fared better than International Developed as partially lifting of COVID-19 restrictions in China weighed favorably. DFA Emerging Markets Core Equity fund outperformed the DFA Large Cap International Fund by 1.4%.
- → The T. Rowe Large Cap Value fund outperformed all other active equity funds, posting -10.6% for the quarter, outpacing its benchmark by 1.6%
- → All actively managed fixed income funds posted negative returns for the quarter. The T. Rowe Price Floating Rate fund posted the strongest absolute returns at -4.7% for the quarter, though the fund trailed its benchmark by 10 bps.
- → Vanguard High Yield outpaced its benchmark by 120 bps, though the fund struggled on an absolute basis, returning -8.6% for the quarter as widening credit spreads served as headwinds.

Economic and Market Update

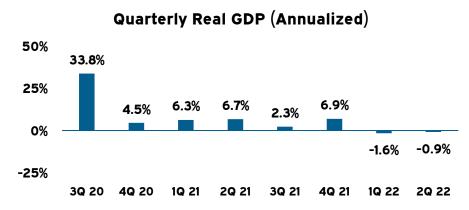
Data as of June 30, 2022



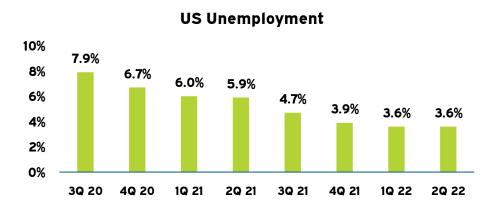


Economic Indicators Snapshot

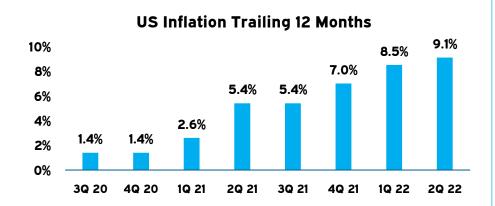
Economic and Market Update



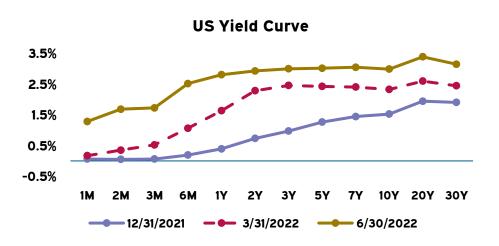
Source: Bureau of Economics Analysis. Data as of Q2 2022 representing the advance estimate. The GDP second quarter second estimate will be released on August 25, 2022.



Source: Bureau of Labor Statistics. Data as of June 30, 2022. Seasonally adjusted.



Source: Bureau of Labor Statistics. Data is non-seasonally adjusted CPI, which may be volatile in the short-term. Data as of June 30, 2022.



Source: US Department of the Treasury.



Economic and Market Update

Market Update as of June 30, 2022

Index Returns

| | QTR (%) | YTD (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | 10 YR (%) |
|--------------------------------|------------|------------|-------------|-------------|-------------|--------------|
| Domestic Equity | | | | | | |
| S&P 500 | (16.1) | (20.0) | (10.6) | 10.6 | 11.3 | 13.0 |
| Russell 3000 | (16.7) | (21.1) | (13.9) | 9.8 | 10.6 | 12.6 |
| Russell 1000 | (16.7) | (20.9) | (13.0) | 10.2 | 11.0 | 12.8 |
| Russell 1000 Growth | (20.9) | (28.1) | (18.8) | 12.6 | 14.3 | 14.8 |
| Russell 1000 Value | (12.2) | (12.9) | (6.8) | 6.9 | 7.2 | 10.5 |
| Russell MidCap | (16.9) | (28.1) | (17.3) | 6.6 | 8.0 | 11.3 |
| Russell MidCap Growth | (21.1) | (12.9) | (29.6) | 4.3 | 8.9 | 11.5 |
| Russell MidCap Value | (14.7) | (28.1) | (10.0) | 6.7 | 6.3 | 10.6 |
| Russell 2000 | (17.2) | (16.7) | (25.2) | 4.2 | 5.2 | 9.4 |
| Russell 2000 Growth | (19.3) | (23.4) | (33.4) | 1.4 | 4.8 | 9.3 |
| Russell 2000 Value | (15.3) | (29.5) | (16.3) | 6.2 | 4.9 | 9.1 |
| Non-US Equity | | | | | | |
| MSCI ACWI (ex. US) | (14.3) | (18.4) | (19.9) | 1.6 | 2.5 | 5.0 |
| MSCI EAFE | (14.5) | (19.6) | (17.8) | 1.1 | 2.2 | 5.4 |
| MSCI EAFE Growth | (16.9) | (26.8) | (23.8) | 1.3 | 3.5 | 6.3 |
| MSCI EAFE Value | (12.4) | (12.1) | (12.0) | 0.2 | 0.5 | 4.3 |
| MSCI EAFE (Local Currency) | (7.8) | (11.3) | (6.6) | 4.4 | 4.3 | 8.3 |
| MSCI EAFE Small Cap | (17.7) | (24.7) | (24.0) | 1.1 | 1.7 | 7.2 |
| MSCI Emerging Markets | (11.5) | (17.6) | (25.3) | 0.6 | 2.2 | 3.1 |
| MSCI Emg Mkts (Local Currency) | (8.1) | (13.7) | (20.2) | 3.3 | 4.4 | 6.0 |
| MSCI China | 3.4 | (11.3) | (31.8) | (0.6) | 2.1 | 5.5 |
| Fixed Income | | | | | | |
| Bloomberg Universal | (5.1) | (10.9) | (10.9) | (0.9) | 0.9 | 1.8 |
| Bloomberg Aggregate | (4.7) | (10.4) | (10.3) | (0.9) | 0.9 | 1.5 |
| Bloomberg US TIPS | (6.1) | (8.9) | (5.1) | 3.0 | 3.2 | 1.7 |
| Bloomberg High Yield | (9.8) | (14.2) | (12.8) | 0.2 | 2.1 | 4.5 |
| JPM GBI-EM Global Diversified | (8.6) | (14.5) | (19.3) | (5.8) | (2.3) | (1.5) |
| Other | | | | | | |
| FTSE NAREIT Equity | (17.0) | (20.2) | (6.3) | 4.0 | 5.3 | 7.4 |
| Bloomberg Commodity Index | (5.7) | 18.4 | 24.3 | 14.3 | 8.4 | (8.0) |

During the Quarter:

- → Historically high inflation, rising rates and the war in Ukraine continued to weigh on results.
- → US and Non-US equity suffered steep declines.
 - Non-US equities outperformed US equities.
 - US Large Caps beat US Small Caps.
 - US Value outpaced US Growth across all market caps.
 - Within Non-US, Emerging Markets outperformed Developed Markets due to China gaining 3.4%.
- → Broad fixed income returns were negative.
 - The FOMC raised rates twice during the quarter to combat surging inflation, driving interest rates higher and bond prices to go lower.
- → Diversifying asset classes produced negative results.
 - Commodities were down (5.7%).
 - REITs were down (17.0%).

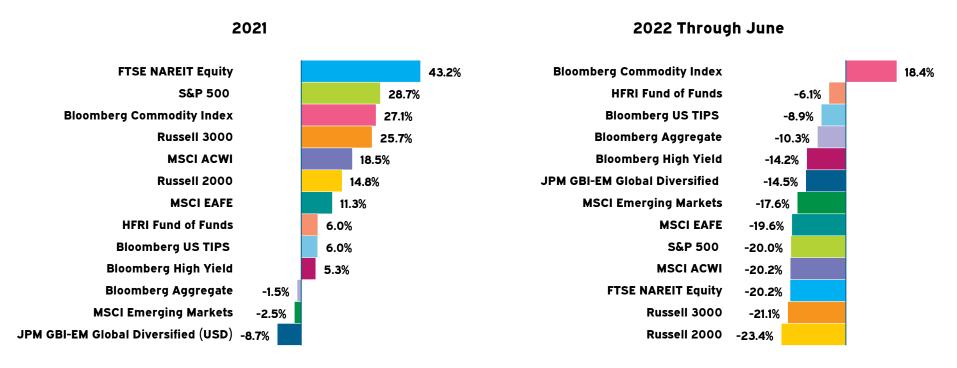


Commentary

- → Global markets resumed their sell-off in June as inflation surged in the US and Europe.
 - In response, the US Federal Reserve increased interest rates 75 basis points (above prior expectations). Markets also repriced the growth outlook downward.
 - All major equity indices suffered steep declines in June. Emerging markets proved slightly more resilient than developed markets on a partial re-opening in China from pandemic related lockdowns.
 - In a reversal of the prior trend growth stocks outperformed value stocks in June.
 - The global bond selloff resumed, as inflation fears, and policy expectations weighed on all major bond markets.
- → Persistently high inflation and the expected policy response, the war in Ukraine, lingering COVID-19 issues, and lockdowns in China will all have considerable economic and financial consequences for the global economy.



Index Returns¹



- → Outside of emerging markets and the broad US investment grade bond market (Bloomberg Aggregate), most asset classes appreciated in 2021.
- → In June all major asset classes posted negative returns on renewed inflation and economic growth fears, with equities experiencing the largest declines.

¹ Source: Bloomberg and FactSet. Data is as of June 30, 2022.



Domestic Equity Returns¹

| Domestic Equity | June (%) | Q2 (%) | YTD (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | 10 YR (%) |
|-----------------------|-------------|------------------|------------|-------------|-------------|-------------|--------------|
| S&P 500 | -8.3 | -16.1 | -20.0 | -10.6 | 10.6 | 11.3 | 12.9 |
| Russell 3000 | -8.4 | -16.7 | -21.1 | -13.9 | 9.8 | 10.6 | 12.6 |
| Russell 1000 | -8.4 | -16.7 | -20.9 | -13.0 | 10.2 | 11.0 | 12.8 |
| Russell 1000 Growth | -7.9 | -20.9 | -28.1 | -18.8 | 12.6 | 14.3 | 14.8 |
| Russell 1000 Value | -8.7 | -12.2 | -12.9 | -6.8 | 6.9 | 7.2 | 10.5 |
| Russell MidCap | -10.0 | -16.8 | -21.6 | -17.3 | 6.6 | 8.0 | 11.3 |
| Russell MidCap Growth | -7.5 | -21.1 | -31.0 | -29.6 | 4.3 | 8.9 | 11.5 |
| Russell MidCap Value | -11.0 | -14.7 | -16.2 | -10.0 | 6.7 | 6.3 | 10.6 |
| Russell 2000 | -8.2 | -17.2 | -23.4 | -25.2 | 4.2 | 5.2 | 9.4 |
| Russell 2000 Growth | -6.2 | -19.3 | -29.5 | -33.4 | 1.4 | 4.8 | 9.3 |
| Russell 2000 Value | -9.9 | -15.3 | -17.3 | -16.3 | 6.2 | 4.9 | 9.0 |

US Equities: Russell 3000 Index declined 8.3%, and growth indices outperformed value in June.

- → US stocks experienced steep losses for the month, led by the energy and materials sectors.
- → Growth indices outperformed their value counterparts for the month but remain well behind for the year-to-date period.
- → Small company stocks slightly outperformed large company stocks in June but remain behind their larger peers year-to-date.

¹ Source: Bloomberg. Data is as of June 30, 2022.



Foreign Equity Returns¹

| Foreign Equity | June (%) | Q2 (%) | YTD (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | 10 YR (%) |
|--|-------------|------------------|------------|-------------|-------------|-------------|--------------|
| MSCI ACWI ex. US | -8.6 | -13.7 | -18.4 | -19.4 | 1.3 | 2.5 | 4.8 |
| MSCI EAFE | -9.3 | -14.5 | -19.6 | -17.8 | 1.1 | 2.2 | 5.4 |
| MSCI EAFE (Local Currency) | -6.3 | -7.8 | -11.3 | -6.6 | 4.4 | 4.3 | 8.3 |
| MSCI EAFE Small Cap | -11.0 | -17.7 | -24.7 | -24.0 | 1.1 | 1.7 | 7.2 |
| MSCI Emerging Markets | -6.6 | -11.5 | -17.6 | -25.3 | 0.6 | 2.2 | 3.1 |
| MSCI Emerging Markets (Local Currency) | -4.6 | -8.1 | -13.7 | -20.2 | 3.3 | 4.4 | 6.0 |
| MSCI China | 6.6 | 3.4 | -11.3 | -31.8 | -0.6 | 2.1 | 5.5 |

International Equities (MSCI EAFE) declined 9.3% and Emerging Markets (MSCI EM) declined 6.6% in June.

- → Non-US developed market stocks slightly trailed the US for the month, while emerging markets stocks had better results due to China gaining 6.6%. Both remain notably negative for the year-to-date period, but ahead of the US.
- → The war in Ukraine, high inflation and the likely monetary policy response, and slowing growth continue to weigh on sentiment.
- → As in the US, growth stocks outperformed value stocks across developed and emerging markets.

¹ Source: Bloomberg. Data is as of June 30, 2022.



Fixed Income Returns¹

| Fixed Income | June (%) | Q2 (%) | YTD (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | 10 YR (%) | Current Yield (%) | Duration (Years) |
|-------------------------------------|-------------|------------------|------------|-------------|-------------|-------------|--------------|-------------------------|---------------------|
| Bloomberg Universal | -2.0 | -5.1 | -10.9 | -10.9 | -0.9 | 0.9 | 1.8 | 4.2 | 6.4 |
| Bloomberg Aggregate | -1.6 | -4.7 | -10.3 | -10.3 | -0.9 | 0.9 | 1.5 | 3.7 | 6.6 |
| Bloomberg US TIPS | -3.2 | -6.1 | -8.9 | -5.1 | 3.0 | 3.2 | 1.7 | 3.4 | 7.0 |
| Bloomberg High Yield | -6.7 | -9.8 | -14.2 | -12.8 | 0.2 | 2.1 | 4.5 | 8.9 | 4.8 |
| JPM GBI-EM Global Diversified (USD) | -4.5 | -8.6 | -14.5 | -19.3 | -5.8 | -2.3 | -1.5 | 7.4 | 4.9 |

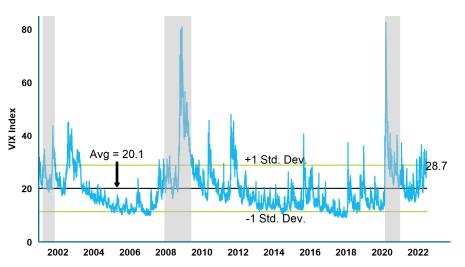
Fixed Income: The Bloomberg Universal declined 2.0% in June.

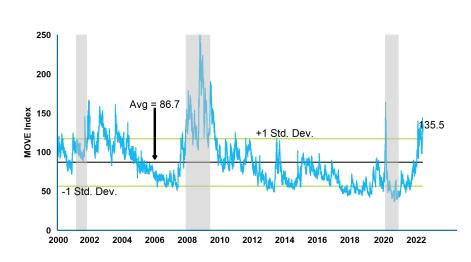
- → The above expectations CPI print led to renewed inflation fears driving interest rates higher and weighing on the broad US investment grade bond market (Bloomberg Aggregate).
- → Despite the above expectation CPI prints, breakeven inflation rates have continued to move down driven by the decline in nominal rates. The nominal 10-year Treasury yield peaked at 3.47% before declining to 3.01% by month-end, while the 2-year Treasury yield declined from 3.43% to 2.95%.
- → US credit spreads widened, particularly for high yield debt, leading to it having the worst results among bonds for the month.
- → Emerging market debt also declined for the month.

¹ Source: Bloomberg. JPM GBI-EM is from InvestorForce. Data is as of June 30, 2022.



Equity and Fixed Income Volatility¹





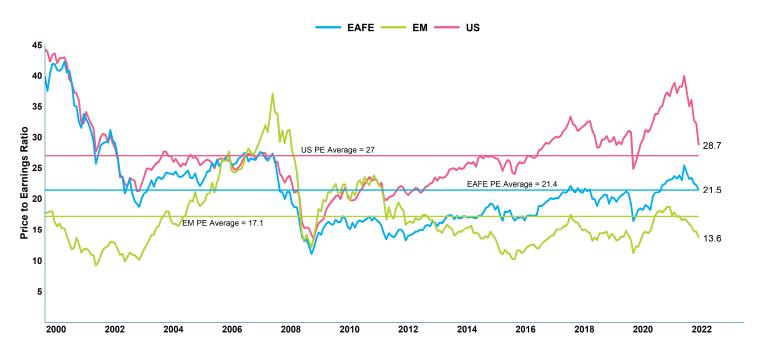
- → Volatility in equities (VIX) and fixed income (MOVE) rose in June on renewed inflation fears and on building signs of weakness in economic growth.
- → Fixed income volatility remains particularly high due to the uncertain path of short-term interest rates.

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¹ Equity and Fixed Income Volatility – Source: Bloomberg. Implied volatility as measured using VIX Index for equity markets and the MOVE Index to measure interest rate volatility for fixed income markets. Data is as of June 2022. The average line indicated is the average of the VIX and MOVE values between January 2000 and the recent month-end respectively.



Equity Cyclically Adjusted P/E Ratios¹



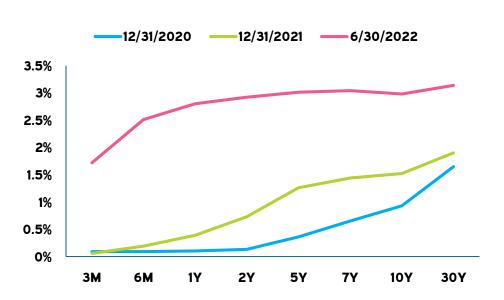
- → The steep decline in June in US equities pushed valuations lower, approaching the level of the long-term (post-2000) average.
- → International developed market valuations remain below the US and are slightly above their own long-term average, with those for emerging markets the lowest and under the long-term average.

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¹ US Equity Cyclically Adjusted P/E on S&P 500 Index. Source: Robert Shiller, Yale University, and Meketa Investment Group. Developed and Emerging Market Equity (MSCI EAFE and EM Index) Cyclically Adjusted P/E – Source: MSCI and Bloomberg. Earnings figures represent the average of monthly "as reported" earnings over the previous ten years. Data is as of June 30, 2022. The average line is the long-term average of the US, EM, and EAFE PE values from December 1999 to the recent month-end respectively.





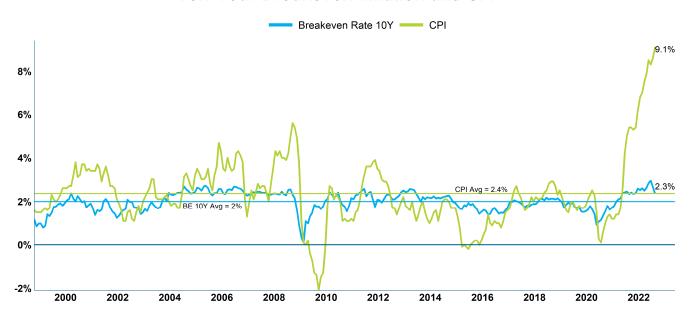


- → Rates across the yield curve remain much higher than at the start of the year.
- → In June, rates rose across maturities (particularly short-dated), as markets continue to reflect elevated inflation and rate expectations.
- → The curve continued to flatten in June with the spread between two-year and ten-year Treasuries falling from 30 basis points at the end of May to just 5 basis points by the end of June.
- → Since month-end, the spread between two-year and ten-year Treasuries became negative which historically has often signaled a coming recession.

¹ Source: Bloomberg. Data is as of June 30, 2022.



Ten-Year Breakeven Inflation and CPI¹



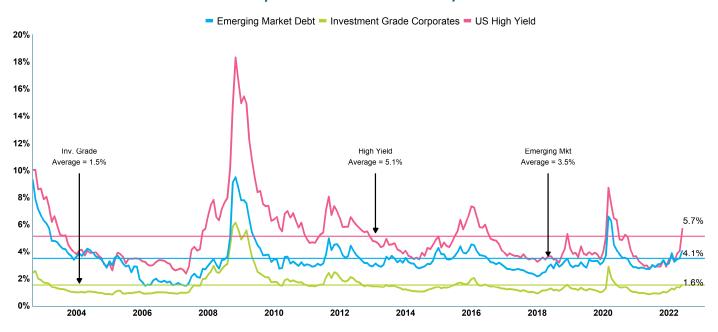
- → Inflation expectations (breakevens) fell further in June on declining growth expectations and anticipated tighter monetary policy.
- → Trailing twelve-month CPI rose in June (9.1% versus 8.6%) and notably came in above expectations. Inflation levels in the US remain well above the long-term average of 2.4%.
- → Rising prices for energy (particularly oil), food, housing, and for new and used cars, remain key drivers of higher inflation.

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¹ Source: Bloomberg. Data is as of June 30, 2022. The CPI and 10 Year Breakeven average lines denote the average values from August 1998 to the present month-end respectively. Breakeven values represent month-end values for comparative purposes.



Credit Spreads vs. US Treasury Bonds¹



- → Credit spreads (the spread above a comparable maturity Treasury) rose in June with high yield and investment grade corporate bonds breaking above their long-run averages.
- → In the US, spreads for high yield significantly increased from 4.0% to 5.7% in the risk-off environment, while investment grade spreads experienced a more modest increase (1.3% to 1.6%). Emerging market spreads also rose (3.5% to 4.1% during the month) but finished much lower than US high yield spreads.

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¹ Sources: Bloomberg. Data is as of June 30, 2022. Average lines denote the average of the investment grade, high yield, and emerging market spread values from August 2000 to the recent month-end respectively.



Global Economic Outlook

The IMF significantly lowered global growth forecasts again in their latest projections, driven by the economic impacts of persistent inflation in energy and food prices.

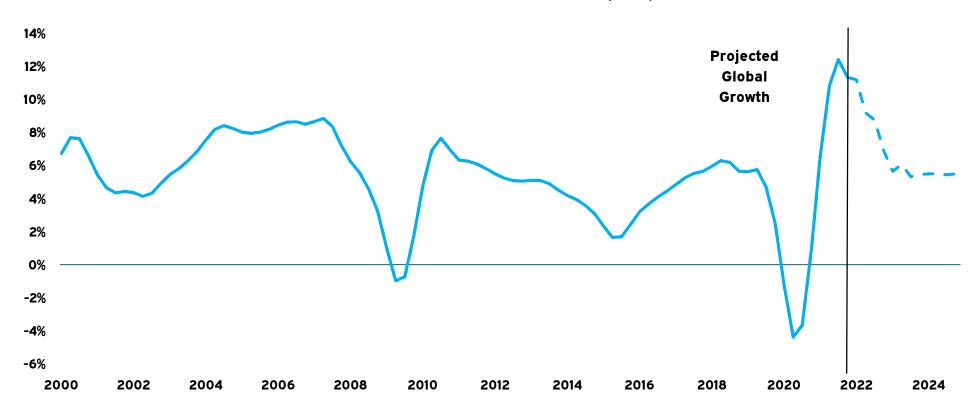
- → The IMF forecasts global GDP growth to come in at 3.2% in 2022 (0.4% below the prior estimate) and 2.9% in 2023 (0.7% below the prior estimate).
- → In advanced economies, GDP is projected to increase 2.5% in 2022 and 1.4% in 2023. The US saw another downgrade in the 2022 (2.3% versus 3.7%) and 2023 (1.0% versus 2.3%) growth forecasts largely due to policy tightening happening faster than previously expected given persistently high inflation. The euro area saw a downgrade too in expected growth (2.6% versus 2.8%) in 2022 and in 2023 (1.2% versus 2.3%) as rising energy prices particularly weigh on the region that is a net importer of energy. The Japanese economy is expected to grow 1.7% this year and next.
- → Growth projections for emerging markets are higher than developed markets, at 3.6% in 2022 and 3.9% in 2023. China's growth was downgraded for 2022 (3.3% versus 4.4%) and 2023 (4.9% versus 5.1%) given tight COVID-19 restrictions and continued property sector problems.
- \rightarrow The global inflation forecast was significantly increased for 2022 (7.4% versus 3.8%).

| | Real GDP (%)1 | | | Inflation (%)¹ | | |
|--------------------|----------------|---------------|-----------------|----------------|---------------|-----------------|
| | IMF IMF Actual | | IMF | IMF | Actual | |
| | 2022 Forecast | 2023 Forecast | 10 Year Average | 2022 Forecast | 2023 Forecast | 10 Year Average |
| World | 3.2 | 2.9 | 3.0 | 7.4 | 4.8 | 3.5 |
| Advanced Economies | 2.5 | 1.4 | 1.6 | 5.7 | 2.5 | 1.5 |
| US | 2.3 | 1.0 | 2.1 | 7.7 | 2.9 | 1.9 |
| Euro Area | 2.6 | 1.2 | 0.9 | 5.3 | 2.3 | 1.2 |
| Japan | 1.7 | 1.7 | 0.5 | 1.0 | 0.8 | 0.5 |
| Emerging Economies | 3.6 | 3.9 | 4.2 | 8.7 | 6.5 | 5.1 |
| China | 3.3 | 4.9 | 6.7 | 2.1 | 1.8 | 2.1 |

¹ Source: IMF World Economic Outlook. Real GDP forecasts from July 2022 Update. Inflation forecasts are as of the April 2022 Update." Actual 10 Year Average" represents data from 2012 to 2021.



Global Nominal Gross Domestic Product (GDP) Growth¹

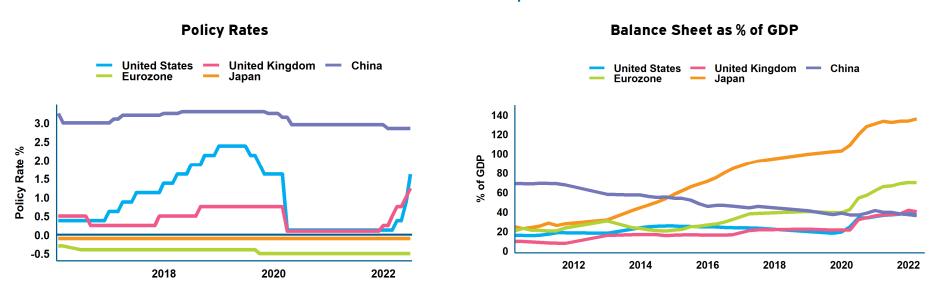


- → Global economies are expected to slow in 2022 compared to 2021 with fears of potential recessions in areas increasing recently given persistently high inflation and related tighter monetary policy.
- → Looking forward, the delicate balancing act of central banks trying to reduce inflation without dramatically impacting growth will remain key.

¹ Source: Oxford Economics (World GDP, US\$ prices & PPP exchange rate, nominal, % change YoY). Updated June 2022.



Central Bank Response¹

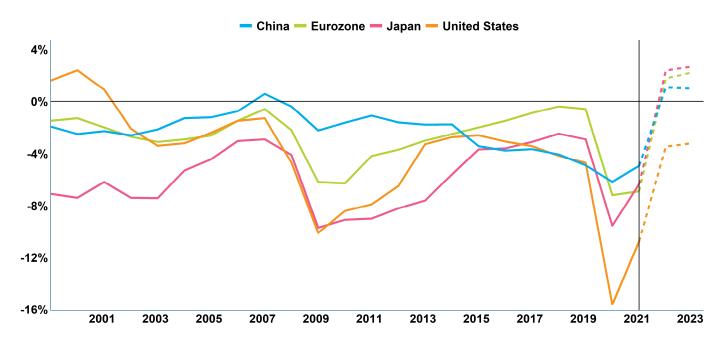


- → After global central banks took extraordinary action to support economies during the pandemic, including policy rate cuts and emergency stimulus through quantitative easing (QE), many are reducing or considering reducing support, in the face of high inflation.
- → The pace of withdrawing support will likely vary across central banks with the US expected to take a more aggressive approach. The risk remains for a policy error, particularly overtightening, as record inflation, the war in Ukraine, and a tough COVID-19 policy in China could suppress global growth.
- → The one notable central bank outlier is China, where the central bank recently lowered rates and reserve requirements in response to slowing growth.

¹ Source: Bloomberg, Policy rate data is as of June 30, 2022. China policy rate is defined as the medium-term lending facility 1 year interest rate. Balance sheet as % of GDP is based on guarterly data and is as of June 30, 2022.



Budget Surplus / Deficit as a Percentage of GDP¹

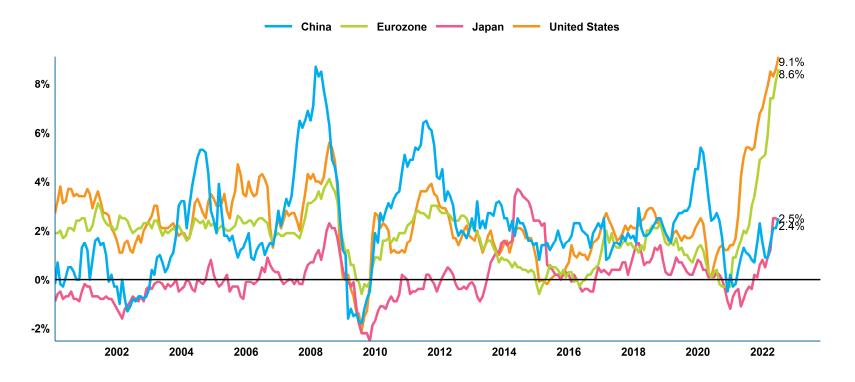


- → Budget deficits as a percentage of GDP drastically increased for major world economies, particularly the US, due to massive fiscal support and the severe economic contraction's effect on tax revenue in 2020 and 2021.
- → As fiscal stimulus programs end, and economic recoveries continue, deficits should improve in the coming years.

¹ Source: Bloomberg. Data is as of June 30, 2022. Projections via IMF Forecasts from April 2022 Report. Dotted lines represent 2022 and 2023 forecasts.



Inflation (CPI Trailing Twelve Months)1

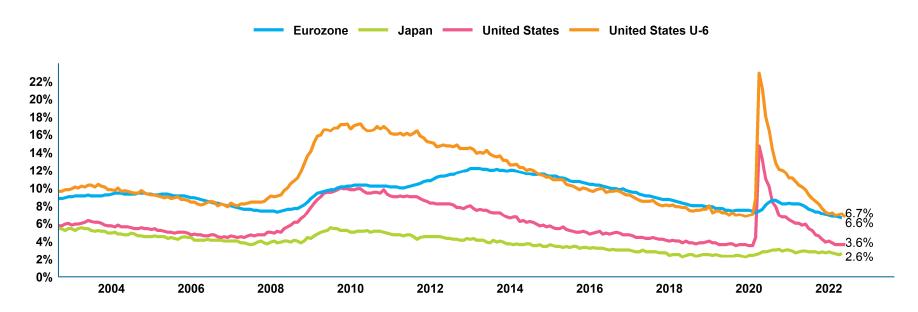


- → Inflation increased dramatically from the lows of the pandemic, particularly in the US and Eurozone where it has reached levels not seen in many decades.
- → Supply issues related to the pandemic, record monetary and fiscal stimulus, strict COVID-19 restrictions in China, and higher prices in many commodities driven by the war in Ukraine have been key drivers of inflation globally.

¹ Source: Bloomberg. Data is as of June 2022.



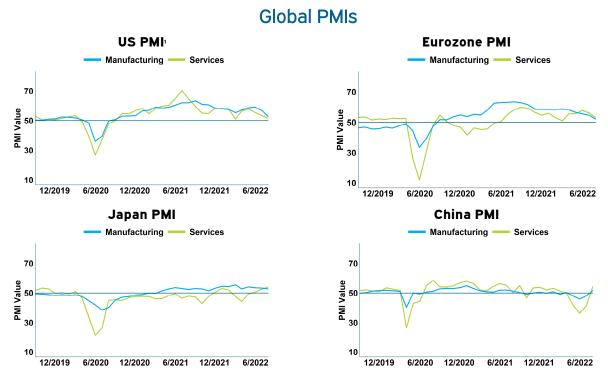




- → As economies have largely reopened, helped by vaccines for the virus, improvements have been seen in the labor market.
- → US unemployment, which experienced the steepest rise from the pandemic, declined back to pre-pandemic levels. The broader measure (U-6) that includes discouraged and underemployed workers declined but is much higher at 6.7%.

¹ Source: Bloomberg. Data is as of June 2022, for the US. The most recent data for Eurozone and Japanese unemployment is as of May 31, 2022.



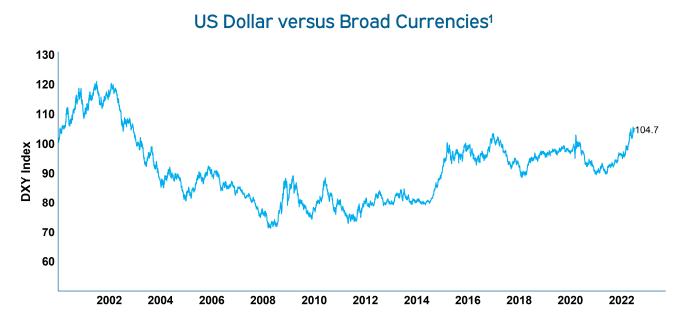


- → After improvements from the lows of the pandemic, Purchasing Managers Indices (PMI), based on surveys of private sector companies, have experienced some pressures recently.
- → Service sector PMIs in the US and Europe have recently declined due to higher prices and supply issues, while they continue to improve in Japan as pandemic restrictions ease. In China the services PMI surged to expansion territory on an easing in lockdown measures.
- → Manufacturing PMIs are in expansion territory as pandemic-related production issues ease and orders increase. China also moved to expansion levels here on partial reopening.

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¹ Source: Bloomberg. US Markit Services and Manufacturing PMI, Caixin Services and Manufacturing PMI, Eurozone Markit Services and Manufacturing PMI, Jibun Bank Services and Manufacturing PMI. Data is as of June 2022. Readings below 50 represent economic contractions.





- → The US dollar continued higher in June on safe-haven flows, relatively strong growth, and higher interest rates.
- → The euro, yen, and yuan have all experienced significant declines versus the dollar, adding to inflation and slowing growth concerns.

¹ Source: Bloomberg. Data as of June 30, 2022.



Summary

Key Trends in 2022:

- → The impacts of record high inflation will remain key going forward, with volatility likely to remain high.
- → The war in Ukraine has created significant uncertainty, with a wide range of potential outcomes.
- → Expect growth to slow globally in 2022 to the long-term trend or below. Inflation, monetary policy, and the war will all be key.
- → The end of many fiscal programs is expected to put the burden of continued growth on consumers. Higher energy and food prices will depress consumers' spending in other areas.
- → Monetary policy will likely tighten globally but will remain relatively accommodative. The risk of overtightening policy remains.
- → Valuations have significantly declined in the US, approaching long-term averages.
- → Outside the US, equity valuations remain lower in both emerging and developed markets, but risks remain, including continued strength in the US dollar, higher inflation particularly weighing on Europe, and China maintaining its restrictive COVID-19 policies.



Review of ScholarShare Policy

| Fund | Asset Class | Benchmark |
|---|----------------------|---|
| T. Rowe Price Instl Large Cap Growth | Domestic Equity | Russell 1000 Growth TR USD |
| T. Rowe Price Instl Large Cap Value | Domestic Equity | Russell 1000 Value TR USD |
| TIAA-CREF Quant Small Cap Equity | Domestic Equity | Russell 2000 TR USD |
| TIAA-CREF Social Choice Equity | Domestic Equity | Russell 3000 TR USD |
| DFA Large Cap International | International Equity | MSCI World ex US NR USD |
| TIAA-CREF Social Choice International Equity | International Equity | MSCI EAFE |
| DFA Emerging Markets Core Equity | International Equity | MSCI EM NR USD |
| Metropolitan West Total Return Bond | Fixed Income | BBg BarCap US Agg Bond TR USD |
| PIMCO Real Return | Fixed Income | BBg BarCap US Trsy US TIPS TR USD |
| PIMCO Income | Fixed Income | BBg BarCap US Agg Bond TR USD |
| Vanguard High-Yield Corp Adm | High Yield | Bloomberg US Corporate High Yield TR |
| T. Rowe Price Institutional Floating Rate | High Yield | S&P/LSTA Performing Loan TR |
| Passive Funds | | |
| Fund | Asset Class | Benchmark |
| TIAA-CREF Equity Index | Domestic Equity | Russell 3000 TR USD |
| TIAA-CREF S&P 500 Index | Domestic Equity | S&P 500 TR |
| TIAA-CREF International Equity Index | International Equity | MSCI EAFE NR USD |
| TIAA-CREF Emerging Markets Equity Index | International Equity | MSCI EM NR USD |
| Nuveen ESG Emerging Markets Equity ETF | International Equity | TIAA ESG Emerging Markets Index |
| Vanguard Short Term Infl-Protected Securities | Fixed Income | BBg US TIPS 0-5 Years |
| TIAA-CREF Bond Index | Fixed Income | BBg BarCap US Agg Bond TR USD |
| Nuveen ESG US Aggregate Bond Index | Fixed Income | BBg MSCI US Agg ESG Select |
| Nuveen ESG High Yield Corporate Bond ETF | High Yield | BBg MSCI US High Yield Very Liquid ESG Select |
| Vanguard Real Estate Index | Real Estate | MSCI US IMI Real Estate 25/50 GR USD |
| T-C Life Funding Agreements | | |
| T-C Life Funding Agreements ¹ | | |

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¹ Investment through a funding agreement with TIAA-CREF Life Insurance Company. Not benchmarked to an index, rather, portfolio performance is monitored using a set of qualitative guidelines.



Review of ScholarShare Policy

Performance Criteria for Placing a Fund on Watch

Actively Managed Funds

| | Short-Term (rolling 12-month periods) | Medium-term (rolling 36-month periods) | Long-term⁵ (> 60 months) | |
|---------------------|--|--|-------------------------------|---|
| Asset Class | Fund return < Benchmark 6 consecutive months (%) | Fund return < Benchmark 6 consecutive months (%) | VRR < 6 consecutive months | Morningstar Sustainability Rating |
| Domestic Equity | -3.50 | -1.75 | 0.97 | |
| nternational Equity | -4.50 | -2.00 | 0.97 | |
| Fixed Income | -1.00 | -0.50 | 0.98 | |
| High Yield | -6.50 | -3.25 | 0.96 | |
| Social Choice | -5.00 | -2.50 | 0.90 | Above Average |

Passively Managed Funds

| | Short-Term (rolling 12-month periods) | Medium-term (rolling 36-month periods) | Long-term⁵ (rolling 60-month periods) |
|----------------------|---|---|---|
| Asset Class | Tracking Error > for 6 consecutive months (%) | Tracking Error > for 6 consecutive months (%) | Fund annualized return < Benchmark 6 consecutive months (%) |
| Domestic Equity | 0.30 | 0.25 | 0.30 |
| International Equity | 0.75 | 0.70 | 0.30 |
| Fixed Income | 0.40 | 0.55 | 0.35 |

¹ Return discounts from a benchmark return based on 2/3rds of the typical tracking error estimates of the specified type of fund manager.

² Annualized return is the average annual return of either the manager or its benchmark.

³ VRR – Value Relative Ratio – is calculated as: Manager Cumulative Return / Benchmark Cumulative Return.

⁴ Tracking error is a measure of the volatility of the average annual difference between the manager's return and the benchmark's return.

⁵ Long-term analysis is presented for informational value to provide context but is not a factor used to determine an Underlying Investment's status.



Review of ScholarShare Policy

Performance Criteria for Placing a Fund on Watch (Continued)

T-C Life Funding Agreements¹

(based on non-investment performance criteria)

| Fund Name | Financial Strength | Mortgage Portfolio | Bond Portfolio | Account Diversification |
|-----------------------------|---|-----------------------|----------------------------------|--|
| T-C Life Funding Agreements | Moody's ≥ Aa2 Standard & Poor's ≥ AA A.M. Best ≥ A+ Fitch ≥ AA | 100% in Good Standing | At least 90% Investment Grade | Portfolio is diversified across asset classes and types |

ESG Funds

(based on net-of-fee asset class performance)

| | Short-Term (rolling 12-month periods) | Medium-Term (rolling 36-month periods) | Long-Term (rolling 60-month periods) |
|-----------------------------------|---|---|---|
| Asset Class | Tracking Error > for 6 consecutive months (%) | Tracking Error > for 6 consecutive months (%) | Fund annualized return < Benchmark for 6 consecutive months (%) |
| International Equity ² | 1.00 | 0.75 | -0.50 |
| Fixed Income | 0.70 | 0.60 | -0.50 |
| High Yield | 0.75 | 0.65 | -0.55 |

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¹ The T-C Life Funding Agreements are measured against a set of non-investment performance criteria (see above) in a published TIAA-CREF report every quarter.

² Nuveen utilizes "fair market value" adjustment procedures for the Nuveen ESG Emerging Markets Equity ETF (the ETF). This adjustment increases or decreases the ETF's actual closing price to compensate for pricing differences between international markets. This procedure can create an artificially high tracking error. Monitoring of the ETF takes this into account and corrects for it where data is available.



Review of ScholarShare Policy

Investment Status Schedule

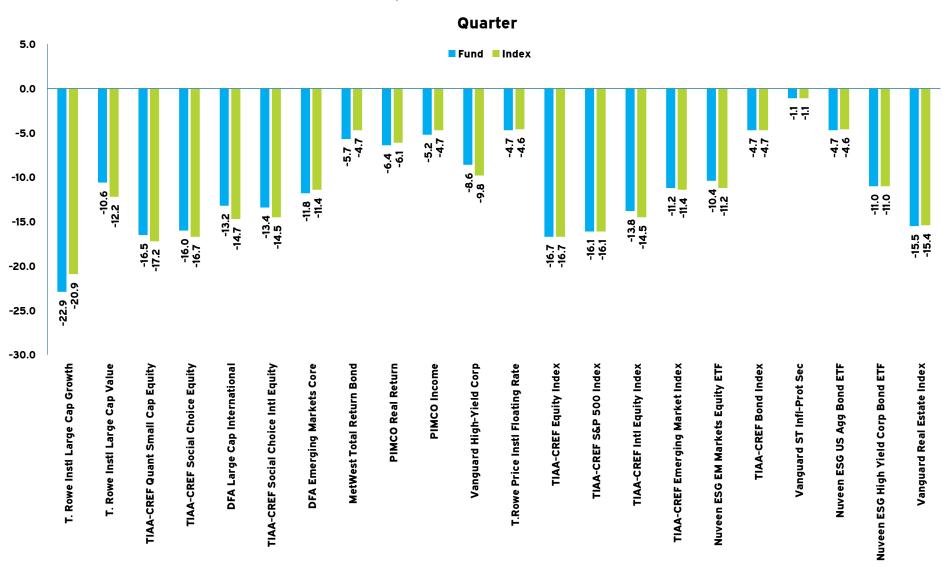
| Performance Category ¹ | Actively Managed Portfolios | Passively Managed Portfolios |
|--------------------------------------|--|--|
| Positive | → Performance exceeds the benchmark. | → Performance exceeds the benchmark (first 1-12 month period), or |
| | | ightarrow Tracking error is within the allowable range (short, medium, and long time periods). |
| Acceptable | → Performance meets or is under the benchmark and is within the allowable range. | → Performance does not exceed the benchmark but is within the allowable range (first 1-12 month period only). |
| Caution | → Performance is below allowable range but either: i) for less than six consecutive months, or ii) the Board has not taken (or decided not to take) a formal action to place the asset class or individual fund portfolio on Watch even though performance has been below allowable range for six months or longer. | → Tracking error falls outside of the allowable range but either i) for less than six consecutive months, or ii) the Board has not voted to place the asset class or stand alone fund on Watch |
| Watch ² | → Performance is below allowable range for more than six consecutive months and the Board has formally voted to place the asset class or individual fund on Watch. | → Tracking error falls outside of the allowable range for more than six consecutive months and the Board has formally voted to place the asset class or individual fund portfolio on Watch. |

¹ Ranges are shown in the Investment Performance Criteria Schedules.

² The amount of time generally required before an investment is put on watch.

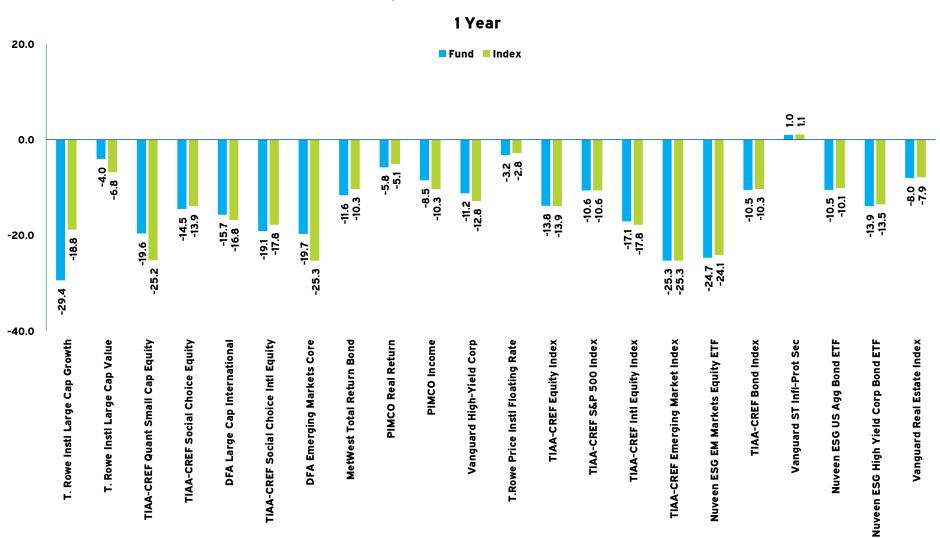


Summary of Fund Performance 6/30/22





Summary of Fund Performance 6/30/22





Summary of Fund Performance Status

| Program | Total Funds | Positive | Acceptable | Caution | Watch ² |
|------------------------------|----------------|----------|------------|---------|--------------------|
| Number of Funds ¹ | 23 | 10 | 11 | 2 | 1 |
| % of Funds | 100% | 44% | 48% | 8% | 4% |
| % of Program Assets | 100% | 83% | 58% | 4% | 2% |
| Fund Status 🕆 | | - | - | _ | - |
| Fund Status ↓ | 4 | - | 4 | _ | |
| Domestic Equity Funds | 6 | 2 | 3 | 1 | 1 |
| Intl Equity Funds | 6 | 5 | - | 1 | _ |
| Fixed Income Funds | 8 | 1 | 7 | _ | _ |
| High Yield Funds | 1 | 1 | | _ | - |
| Real Estate | 1 | - | 1 | _ | |
| Funding Agreement | 1 | 1 | - | _ | - |

¹ Total number of funds does not include funds added to the program in 2/11/2022. New to program funds' performance statuses are based on excess performance since addition to portfolio
2 Includes funds on Watch and new funds qualifying for Watch status. Number has not been adjusted to remove funds no longer qualifying for Watch.

- → Ninety-two percent of the Program's funds have either a Positive or Acceptable performance status.
- → Four funds declined to Acceptable status over the quarter:
 - Metropolitan West Total Return Bond
 - TIAA-CREF Equity Index
 - TIAA-CREF S&P 500 Index
 - TIAA-CREF Bond Index
- The T. Rowe Price Instl Large Cap Growth fund continues to qualify for "Watch" status.
- The TIAA-CREF Emerging Markets Index qualifies for watch, but we recommend keeping it off watch for reasons detailed in the watch memo.



Review of ScholarShare Policy

Summary of Fund Performance Status

| | | | <u>'</u> | |
|---|------------|----------|-----------------|----------|
| | Prior Qua | rter | Current Quarter | |
| Funds | Status | On Watch | Status | On Watch |
| Active Funds | | | | |
| T. Rowe Price Instl Large Cap Growth | Caution | Yes | Caution | Yes |
| T. Rowe Price Instl Large Cap Value | Positive | No | Positive | No |
| TIAA-CREF Quant Small Cap Equity | Positive | No | Positive | No |
| TIAA-CREF Social Choice Equity | Acceptable | No | Acceptable | No |
| DFA Large Cap International | Positive | No | Positive | No |
| TIAA-CREF Social Choice Intl Equity ¹² | N/A | N/A | Positive | N/A |
| DFA Emerging Markets Core Equity | Positive | No | Positive | No |
| Metropolitan West Total Return Bond | Positive | No | Acceptable | No |
| PIMCO Real Return | Acceptable | No | Acceptable | No |
| PIMCO Income | Positive | No | Positive | No |
| Vanguard High-Yield Corp Adm ² | N/A | N/A | Positive | N/A |
| T. Rowe Price Instl Floating Rate | Acceptable | No | Acceptable | No |
| Passive Funds | | | | |
| TIAA-CREF Equity Index | Positive | No | Acceptable | No |
| TIAA-CREF S&P 500 Index | Positive | No | Acceptable | No |
| TIAA-CREF International Equity Index ¹ | Positive | No | Positive | No |
| TIAA-CREF Emerging Markets Index ¹ | Caution | No | Caution | No |
| Nuveen ESG EM Market Equity ¹² | N/A | N/A | Positive | N/A |
| Vanguard ST Infl-Prot Sec Idx ² | N/A | N/A | Acceptable | N/A |
| TIAA-CREF Bond Index | Positive | No | Acceptable | No |
| Nuveen ESG US Agg Bond ² | N/A | N/A | Acceptable | N/A |
| Nuveen ESG High Yield ² | N/A | N/A | Acceptable | N/A |
| Vanguard REIT Index ² | N/A | N/A | Acceptable | N/A |
| T-C Life Funding Agreements | | | | |
| T-C Life Funding Agreements | Positive | No | Positive | No |

- → Current status is based on Short-Term (rolling 12-month) and Medium-Term (rolling 36-month) evaluation results.
- → According to the Investment Status Schedule on the previous page, the portfolio's overall "Current Status" equals the lowest status as achieved by one or more of the criteria during the quarter.

¹ The TIAA-CREF International Equity Index, Emerging Markets Index, and Social Choice International Equity funds' returns have been adjusted to include Fair Value impact for the purpose of monitoring.

² Funds added to the program as of 2/11/2022. New to program funds' performance statuses are based on excess performance since addition to portfolio



Review of ScholarShare Policy

Summary of Fund Assets as of 6/30/22

| (s) Active Funds T. Rowe Price Inst! Large Cap Value Fund 280,215,440 243% T. Rowe Price Inst! Large Cap Value Fund 291,067,815 253% TIAA-CREF Gualt Small-Cap Equity Fund 98,091,726 0.85% TIAA-CREF Social Choice Equity Fund 238,825,691 207% DFA Large Cap International 404,483,092 3.5% TIAA-CREF Social Choice International Equity Fund¹ 958,627 0.01% DFA Emerging Markets Core Equity Fund 100,825,814 0.98% Metropolitan West Total Return Bond 422,406,535 3.67% PIMCO Real Return 237,682,396 2.08% PIMCO Real Return 237,682,396 2.08% Vanguard High-Yield Corporate Adm¹ 185,308,87 1.6% 1, Rowe Price Inst! Floating Rate Fund 119,058,462 1.03% Active Funds Total 2,618,764,712 22,748 Passive Funds 3,106,063,338 26,97% TIAA-CREF Equity Index Fund 3,06,063,338 26,97% TIAA-CREF International Equity Index Fund 180,773,575 1.57% | Funds | Assets | % of Total |
|--|--|----------------|------------|
| T. Rowe Price Instl Large Cap Growth Fund 280,215,440 2.43% T. Rowe Price Instl Large Cap Value Fund 291,067,615 253% T.AA-CREF Quant Small-Cap Equity Fund 98,091,726 0.85% TIAA-CREF Social Choice Equity Fund 28,825,691 207% DFA Large Cap International 404,483,092 3.55% TIAA-CREF Social Choice International Equity Fund 100,825,814 0.89% Metropolitan West Total Return Bond 422,406,535 3.67% PIMCO Real Return 237,682,396 2.06% PIMCO Drome 239,840,928 2.08% Vanguard High-Yield Corporate Adm¹ 185,308,187 1.61% T. Rowe Price Instl Floating Rate Fund 19,058,462 1.03% Active Funds Total 2,618,764,712 22,74% Passive Funds 3,106,063,938 26,77% TIAA-CREF Equity Index Fund 3,106,063,938 26,97% TIAA-CREF Emerging Markets Equity Index Fund 180,773,575 1.57% TIAA-CREF Emerging Markets Equity Index Fund 180,773,575 1.57% Nuveen ESG US Agg Bond¹ 2,587,586 0.02% </th <th></th> <th>(\$)</th> <th></th> | | (\$) | |
| T. Rowe Price Instil Large Cap Value Fund 291,067,815 253% TIAA-CREF Quant Small-Cap Equity Fund 98,091726 0.65% TIAA-CREF Social Choice Equity Fund 238,825,691 207% DFA Large Cap International 404,483,092 3.55% TIAA-CREF Social Choice International Equity Fund 958,627 0.01% DFA Emerging Markets Core Equity Fund 100,825,814 0.88% Metropolitian West Total Return Bond 422,406,535 3.67% PIMCO Real Return 237,682,396 2.06% PIMCO Income 239,840,928 2.08% Vanguard High-Yield Corporate Adm ¹ 185,308,187 1.65% T, Rowe Price Instil Floating Rate Fund 19,058,462 1.03% Active Funds Total 2,618,764,712 22,74% Possive Funds 11,03 26,75% TIAA-CREF Equity Index Fund 31,06,063,938 26,97% TIAA-CREF International Equity Index Fund 180,773,575 1.57% Nuveen ESG EM Market Equity Index Fund 180,773,575 1.57% Nuveen ESG EM Market Equity Index Fund 1,590,061,736 3.38% </th <th>Active Funds</th> <th></th> <th></th> | Active Funds | | |
| TIAA-CREF Quant Small-Cap Equity Fund 98,091,726 0.85% TIAA-CREF Social Choice Equity Fund 238,825,691 2.07% DFA Large Cap International 404,483,092 3.5% TIAA-CREF Social Choice International Equity Fund¹ 958,627 0.0% DFA Emerging Markets Core Equity Fund 100,825,814 0.88% Metropolitan West Total Return Bond 422,406,535 3.67% PIMCO Real Return 237,682,396 2.06% PIMCO Income 239,840,928 2.08% Vanguard High-Yield Corporate Adm¹ 185,308,187 1.6% Yanguard High-Yield Corporate Adm¹ 185,308,187 2.674 Passive Funds 3106,063,938 2.674 Passive Funds 3306,063,938 2.68% TIAA-CR | T. Rowe Price Instl Large Cap Growth Fund | 280,215,440 | 2.43% |
| TIAA-CREF Social Choice Equity Fund 238,825,691 207% DFA Large Cap International 404,483,092 3.5% TIAA-CREF Social Choice International Equity Fund¹ 958,627 0.0% TIAA-CREF Social Choice International Equity Fund¹ 100,825,814 0.88% Metropolitan West Total Return Bond 422,406,535 3.67% PIMCO Real Return 237,862,396 2.06% PIMCO Income 239,840,928 2.08% Vanguard High-Yield Corporate Adm¹ 185,308,187 1.6% T. Rowe Price Inst! Floating Rate Fund 119,058,462 10.3% Active Funds Total 19,058,462 10.3% Active Funds Total 3106,063,938 26,97% TIAA-CREF Equity Index Fund 3106,063,938 26,97% TIAA-CREF Equity Index Fund 308,651,735 2.68% TIAA-CREF International Equity Index Fund 180,773,575 15,7% Nuveen ESG EM Market Equity¹ 10,260 0.00% TIAA-CREF Bond Index Fund 1,590,061,736 13,8% Nuveen ESG USA gg Bond¹ 2,587,586 0.00% Nuveen ESG USA | T. Rowe Price Instl Large Cap Value Fund | 291,067,815 | 2.53% |
| DFA Large Cap International 404,483,092 3.5% TIAA-CREF Social Choice International Equity Fund I 956,627 0.0% DFA Emerging Markets Core Equity Fund I 100,825,814 0.88% Metropolitan West Total Return Bond I 2237,682,396 3.67% PIMCO Real Return I 237,682,396 2.06% PIMCO Income I 239,840,928 2.08% Vanguard High-Yield Corporate Adm I 185,308,187 1.67% T. Rowe Price Instil Floating Rate Fund I 19,058,462 10.3% Active Funds Total Return Sord I 19,058,462 2.74% Passive Funds 3,106,063,938 26,97% TIAA-CREF Equity Index Fund I 3,106,063,938 26,97% TIAA-CREF Equity Index Fund I 79,307,003 6,25% TIAA-CREF Emerging Markets Equity Index Fund I 80,773,575 1.57% Nuveen ESG EM Market Equity I Index Fund I 1,590,061,736 1.38% Nuveen ESG US Agg Bond I 2,587,586 0.02% Nuveen ESG High Yield I 65,408 0.00% Vanguard Shrt-Term Infl-Prot Sec Idx Ins I 375,529,949 3.26% Vanguard REIT Index I 1 8,000,000 3.75,529,949 3.26% Vanguard REIT Index I 1 8,000,000 3.000,000 3.000,000 | TIAA-CREF Quant Small-Cap Equity Fund | 98,091,726 | 0.85% |
| TIAA-CREF Social Choice International Equity Fund 958,627 0.0% DFA Emerging Markets Core Equity Fund 100,825,814 0.8% Metropolitan West Total Return Bond 422,406,535 36,76% PIMCO Income 237,682,396 206% Vanguard High-Yield Corporate Adm¹ 185,308,187 1.6% T, Rowe Price Inst! Floating Rate Fund 119,058,462 10.3% Active Funds Total 2,618,764,712 22,74% Passive Funds 3106,063,938 26,97% TIAA-CREF Equity Index Fund 3,106,063,938 26,97% TIAA-CREF Equity Index Fund 30,665,173 26,86% TIAA-CREF Energing Markets Equity Index Fund 180,773,575 157% TIAA-CREF Emerging Markets Equity Index Fund 180,773,575 157% Nuveen ESG EM Market Equity¹ 120,260 0,00% TIAA-CREF Bond Index Fund 1,590,061,736 13,81% Nuveen ESG US Agg Bond¹ 2,587,586 0,026 Nuveen ESG High Yield¹ 165,408 0,00% Vanguard REIT Index I¹ 290,721,330 252% Passive Funds Total </td <td>TIAA-CREF Social Choice Equity Fund</td> <td>238,825,691</td> <td>2.07%</td> | TIAA-CREF Social Choice Equity Fund | 238,825,691 | 2.07% |
| DFA Emerging Markets Core Equity Fund 100,825,814 0.88% Metropolitan West Total Return Bond 422,406,535 3.67% PIMCO Real Return 237,682,396 2.06% PIMCO Income 239,840,928 2.08% Vanguard High-Yield Corporate Adm¹ 185,308,187 1.65% T. Rowe Price InstIf Floating Rate Fund 119,058,462 1.03% Active Funds Total 2,618,764,712 22,74% Passive Funds 3 26,97% TIAA-CREF Equity Index Fund 308,651,735 2.68% TIAA-CREF Emerging Markets Equity Index Fund 180,773,575 1.57% Nuveen ESG EM Market Equity¹ 120,260 0.00% Nuveen ESG US Agg Bond¹ 2,587,586 0.02% Nuveen ESG US Agg Bond¹ 2,587,586 0.02% Nuveen ESG High Yield¹ 165,408 0.00% Vanguard REIT Indix¹¹ 290,721,330 2.52% Passive Funds Total 6,573,982,520 57,08% TIAA-CREF Life Funding Agreements 2,324,341,215 20,18% | DFA Large Cap International | 404,483,092 | 3.51% |
| Metropolitan West Total Return Bond 422,406,535 3.67% PIMCO Real Return 237,682,396 206% PIMCO Income 239,840,928 2.08% Vanguard High-Yield Corporate Adm¹ 185,308,187 1.67% T. Rowe Price Inst! Floating Rate Fund 119,058,462 10.3% Active Funds Total 2,618,764,712 22.74% Passive Funds 3.106,063,938 26.97% TIAA-CREF Equity Index Fund 308,651,735 2.68% TIAA-CREF International Equity Index Fund 180,773,575 1.57% Nuveen ESG EM Market Equity¹ 120,260 0.00% TIAA-CREF Bond Index Fund 1,590,061,736 13.8% Nuveen ESG US Agg Bond¹ 2,587,586 0.02% Nuveen ESG High Yield¹ 165,408 0.00% Vanguard Shrt-Term Infi-Prot Sec Idx Ins¹ 375,529,949 3.26% Vanguard REIT Index I¹ 290,721,330 2.52% Passive Funds Total 6,573,982,520 57.08% TIAA-CREF Life Funding Agreements 2,324,341,215 50.18% | TIAA-CREF Social Choice International Equity Fund ¹ | 958,627 | 0.01% |
| PIMCO Real Return 237,682,396 206% PIMCO Income 239,840,928 208% Vanguard High-Yield Corporate Adm¹ 185,308,187 1.61% T. Rowe Price Instl Floating Rate Fund 119,058,462 10.33 Active Funds Total 2,618,764,712 22,74% Passive Funds 31,06,063,938 26,97% TIAA-CREF Equity Index Fund 308,651,735 268% TIAA-CREF International Equity Index Fund 719,307,003 625% TIAA-CREF International Equity Index Fund 180,773,575 157% Nuveen ESG EM Market Equity¹ 120,260 0.00% TIAA-CREF Bond Index Fund 1,590,061,736 13.81% Nuveen ESG US Agg Bond¹ 2,587,586 0.02% Nuveen ESG High Yield¹ 165,408 0.00% Vanguard Shrt-Term Infi-Prot Sec Idx Ins¹ 375,529,949 3.26% Vanguard REIT Index I¹ 290,721,330 2.52% Passive Funds Total 6,573,982,520 57.08% TIAA-CREF Life Funding Agreements 2,324,341,215 20.18% | DFA Emerging Markets Core Equity Fund | 100,825,814 | 0.88% |
| PIMCO Income 239,840,928 2.08% Vanguard High-Yield Corporate Adm¹ 185,308,187 1.61% T. Rowe Price Instl Floating Rate Fund 119,058,462 1.03% Active Funds Total 2,618,764,712 22,74% Passive Funds 3,106,063,938 26,97% TIAA-CREF Equity Index Fund 308,651,735 2,68% TIAA-CREF International Equity Index Fund 719,307,003 6,25% TIAA-CREF Emerging Markets Equity Index Fund 180,773,575 1,57% Nuveen ESG EM Market Equity¹ 120,260 0,00% TIAA-CREF Bond Index Fund 1,590,061,736 13,81% Nuveen ESG US Agg Bond¹ 2,587,586 0,02% Nuveen ESG High Yield¹ 165,408 0,00% Vanguard Shrt-Term Infi-Prot Sec Idx Ins¹ 375,529,949 3,26% Vanguard REIT Index 1¹ 290,721,330 2,52% Passive Funds Total 6,573,982,520 57,08% TIAA-CREF Life Funding Agreements 2,324,341,215 20,18% | Metropolitan West Total Return Bond | 422,406,535 | 3.67% |
| Vanguard High-Yield Corporate Adm¹ 185,308,187 16% T. Rowe Price Instl Floating Rate Fund 119,058,462 10.3% Active Funds Total 2,618,764,712 22.74% Passive Funds 3,106,063,938 26.97% TIAA-CREF Equity Index Fund 3,06,651,735 26.68% TIAA-CREF Sup 500 Index Fund 719,307,003 6.25% TIAA-CREF International Equity Index Fund 180,773,575 1.57% Nuveen ESG EM Market Equity¹ 120,260 0.00% TIAA-CREF Bond Index Fund 1,590,061,736 13.81% Nuveen ESG US Agg Bond¹ 2,587,586 0.02% Nuveen ESG High Yield¹ 165,408 0.00% Vanguard Shrt-Term Infl-Prot Sec Idx Ins¹ 375,529,949 3.26% Vanguard REIT Index 1¹ 290,721,330 2.52% Passive Funds Total 6,573,982,520 57,08% TIAA-CREF Life Funding Agreements 2,324,341,215 20.18% | PIMCO Real Return | 237,682,396 | 2.06% |
| T. Rowe Price Instl Floating Rate Fund 119,058,462 103% Active Funds Total 2,618,764,712 22,74% Passive Funds TIAA-CREF Equity Index Fund 3,106,063,938 26,97% TIAA-CREF Equity Index Fund 308,651,735 2,68% TIAA-CREF International Equity Index Fund 719,307,003 6,25% TIAA-CREF Emerging Markets Equity Index Fund 180,773,575 157% Nuveen ESG EM Market Equity Index Fund 1,590,061,736 0.00% TIAA-CREF Bond Index Fund 1,590,061,736 13,81% Nuveen ESG US Agg Bond Index Fund 1,590,061,736 13,81% Nuveen ESG High Yield Index Fund 165,408 0.00% Vanguard Shrt-Term Inft-Prot Sec Idx Ins Index Ind | PIMCO Income | 239,840,928 | 2.08% |
| Active Funds Total 2,618,764,712 22.74% Passive Funds TIAA-CREF Equity Index Fund 3,106,063,938 26.97% TIAA-CREF S&P 500 Index Fund 308,651,735 2.68% TIAA-CREF International Equity Index Fund 719,307,003 6.25% TIAA-CREF Emerging Markets Equity Index Fund 180,773,575 1.57% Nuveen ESG EM Market Equity 1 120,260 0.00% TIAA-CREF Bond Index Fund 1,590,061,736 13.81% Nuveen ESG US Agg Bond 1 2,587,586 0.02% Nuveen ESG High Yield 1 165,408 0.00% Vanguard Shrt-Tern Infl-Prot Sec Idx Ins 1 375,529,949 3.26% Vanguard REIT Index 1 290,721,330 2.52% Passive Funds Total 6,573,982,520 57.08% TIAA-CREF Life Funding Agreements 2,324,341,215 20.18% | Vanguard High-Yield Corporate Adm ¹ | 185,308,187 | 1.61% |
| Passive Funds TIAA-CREF Equity Index Fund 3,106,063,938 26,97% TIAA-CREF S&P 500 Index Fund 308,651,735 2,68% TIAA-CREF International Equity Index Fund 719,307,003 6,25% TIAA-CREF Emerging Markets Equity Index Fund 180,773,575 1,57% Nuveen ESG EM Market Equity Index Fund 1,590,061,736 0,00% TIAA-CREF Bond Index Fund 1,590,061,736 13,81% Nuveen ESG US Agg Bond Index Fund 2,587,586 0,02% Nuveen ESG High Yield Index | T. Rowe Price Instl Floating Rate Fund | 119,058,462 | 1.03% |
| TIAA-CREF Equity Index Fund 3,106,063,938 26.97% TIAA-CREF S&P 500 Index Fund 308,651,735 2.68% TIAA-CREF International Equity Index Fund 719,307,003 6.25% TIAA-CREF Emerging Markets Equity Index Fund 180,773,575 1.57% Nuveen ESG EM Market Equity ¹ 120,260 0.00% TIAA-CREF Bond Index Fund 1,590,061,736 13.81% Nuveen ESG US Agg Bond ¹ 2,587,586 0.02% Nuveen ESG High Yield ¹ 165,408 0.00% Vanguard Shrt-Term Infl-Prot Sec Idx Ins ¹ 375,529,949 3.26% Vanguard REIT Index I ¹ 290,721,330 2.52% Passive Funds Total 6,573,982,520 57.08% TIAA-CREF Life Funding Agreements 2,324,341,215 20.18% | Active Funds Total | 2,618,764,712 | 22.74% |
| TIAA-CREF S&P 500 Index Fund 308,651,735 2.68% TIAA-CREF International Equity Index Fund 719,307,003 6.25% TIAA-CREF Emerging Markets Equity Index Fund 180,773,575 1.57% Nuveen ESG EM Market Equity¹ 120,260 0.00% TIAA-CREF Bond Index Fund 1,590,061,736 13.81% Nuveen ESG US Agg Bond¹ 2,587,586 0.02% Nuveen ESG High Yield¹ 165,408 0.00% Vanguard Shrt-Term Infi-Prot Sec Idx Ins¹ 375,529,949 3.26% Vanguard REIT Index I¹ 290,721,330 2.52% Passive Funds Total 6,573,982,520 57.08% TIAA-CREF Life Funding Agreements 2,324,341,215 20.18% | Passive Funds | | |
| TIAA-CREF International Equity Index Fund 719,307,003 6.25% TIAA-CREF Emerging Markets Equity Index Fund 180,773,575 1.57% Nuveen ESG EM Market Equity¹ 120,260 0.00% TIAA-CREF Bond Index Fund 1,590,061,736 13.8% Nuveen ESG US Agg Bond¹ 2,587,586 0.02% Nuveen ESG High Yield¹ 165,408 0.00% Vanguard Shrt-Term Infil-Prot Sec Idx Ins¹ 375,529,949 3.26% Vanguard REIT Index I¹ 290,721,330 2.52% Passive Funds Total 6,573,982,520 57.08% TIAA-CREF Life Funding Agreements 2,324,341,215 20.18% | TIAA-CREF Equity Index Fund | 3,106,063,938 | 26.97% |
| TIAA-CREF Emerging Markets Equity Index Fund 180,773,575 1.57% Nuveen ESG EM Market Equity Index Fund 120,260 0.00% TIAA-CREF Bond Index Fund 1,590,061,736 13.81% Nuveen ESG US Agg Bond Index Fund 2,587,586 0.02% Nuveen ESG High Yield Index | TIAA-CREF S&P 500 Index Fund | 308,651,735 | 2.68% |
| Nuveen ESG EM Market Equity¹ 120,260 0.00% TIAA-CREF Bond Index Fund 1,590,061,736 13.81% Nuveen ESG US Agg Bond¹ 2,587,586 0.02% Nuveen ESG High Yield¹ 165,408 0.00% Vanguard Shrt-Term Infl-Prot Sec Idx Ins¹ 375,529,949 3.26% Vanguard REIT Index I¹ 290,721,330 2.52% Passive Funds Total 6,573,982,520 57.08% TIAA-CREF Life Funding Agreements 2,324,341,215 20.18% | TIAA-CREF International Equity Index Fund | 719,307,003 | 6.25% |
| TIAA-CREF Bond Index Fund 1,590,061,736 13.81% Nuveen ESG US Agg Bond 1 2,587,586 0.02% Nuveen ESG High Yield 1 165,408 0.00% Vanguard Shrt-Term Infl-Prot Sec Idx Ins 1 375,529,949 3.26% Vanguard REIT Index I 1 290,721,330 2.52% Passive Funds Total 6,573,982,520 57.08% TIAA-CREF Life Funding Agreements 2,324,341,215 20.18% | TIAA-CREF Emerging Markets Equity Index Fund | 180,773,575 | 1.57% |
| Nuveen ESG US Agg Bond ¹ 2,587,586 0.02% Nuveen ESG High Yield ¹ 165,408 0.00% Vanguard Shrt-Term Infl-Prot Sec Idx Ins ¹ 375,529,949 3.26% Vanguard REIT Index I ¹ 290,721,330 2.52% Passive Funds Total 6,573,982,520 57.08% TIAA-CREF Life Funding Agreements 2,324,341,215 20.18% | Nuveen ESG EM Market Equity ¹ | 120,260 | 0.00% |
| Nuveen ESG High Yield¹ 165,408 0.00% Vanguard Shrt-Term Infl-Prot Sec Idx Ins¹ 375,529,949 3.26% Vanguard REIT Index I¹ 290,721,330 2.52% Passive Funds Total 6,573,982,520 57.08% TIAA-CREF Life Funding Agreements 2,324,341,215 20.18% | TIAA-CREF Bond Index Fund | 1,590,061,736 | 13.81% |
| Vanguard Shrt-Term Infl-Prot Sec Idx Ins¹ 375,529,949 3.26% Vanguard REIT Index I¹ 290,721,330 2.52% Passive Funds Total 6,573,982,520 57.08% TIAA-CREF Life Funding Agreements T-C Life Funding Agreements 2,324,341,215 20.18% | Nuveen ESG US Agg Bond ¹ | 2,587,586 | 0.02% |
| Vanguard REIT Index I ¹ 290,721,330 2.52% Passive Funds Total 6,573,982,520 57.08% TIAA-CREF Life Funding Agreements 2,324,341,215 20.18% | Nuveen ESG High Yield ¹ | 165,408 | 0.00% |
| Passive Funds Total 6,573,982,520 57.08% TIAA-CREF Life Funding Agreements T-C Life Funding Agreements 2,324,341,215 20.18% | Vanguard Shrt-Term Infl-Prot Sec Idx Ins ¹ | 375,529,949 | 3.26% |
| Passive Funds Total 6,573,982,520 57.08% TIAA-CREF Life Funding Agreements T-C Life Funding Agreements 2,324,341,215 20.18% | Vanguard REIT Index I ¹ | 290,721,330 | 2.52% |
| T-C Life Funding Agreements 2,324,341,215 20.18% | | 6,573,982,520 | 57.08% |
| | TIAA-CREF Life Funding Agreements | | |
| TOTAL 11,517,088,446 100.00% | T-C Life Funding Agreements | 2,324,341,215 | 20.18% |
| | TOTAL | 11,517,088,446 | 100.00% |

¹ Funds added to the program as of 2/11/2022.



Review of ScholarShare Policy

Portfolio Management Overview

| Fund. | d. Ticker Current PM Team | | Recent P | M Departures¹ | |
|-------------------------------------|---------------------------|---|--|--|-----------------------------------|
| T.Rowe Price Large Cap Growth | TRLGX | 01/01/2017- | Taymour R. Tamaddon | | |
| T.Rowe Price Large Cap Value | TILCX | 03/31/2000- 02/25/2010- 10/01/2021- | John D. Linehan Mark S. Finn Gabriel Solomon | 01/01/2015 - 05/01/2022 | Heather K. McPherson |
| TIAA-CREF Quant Small Cap Equity | TISEX | 03/01/2016- 03/01/2019- | Pei Chen Max Kozlov | 10/23/2006-10/1/2020 | Adam Cao |
| TIAA-CREF Social Choice Equity | TISCX | 12/31/2005- 05/30/2014- 05/01/2022- | Philip James Campagna Lei Liao Darren Tran | | |
| DFA Large Cap International | DFALX | 02/28/2010- 07/21/2015- 02/28/2020- 02/28/2020- | Jed S. Fogdall Bhanu P. Singh Joel P. Schneider Arun C. Keswani | 02/28/2010-02/28/2019 07/21/2015-02/28/2020 | Joseph H. Chi Mary T. Phillips |
| TIAA-CREF Social Choice Intl Equity | TSONX | 08/07/2015 - 08/07/2015 - 05/01/2022 - | Lei Liao Philip James Campagna Darren Tran | | |
| DFA Emerging Markets Core Equity | DFCEX | 02/28/2010- 07/21/2015- 07/21/2015- 02/28/2017- 02/28/2019- | Jed S. Fogdall Allen Pu Bhanu P. Singh Mary T. Phillips William Collins-Dean | 02/28/2010-02/28/2019 | Joseph H. Chi |
| Nuveen ESG EM Market Equity | NUEM | 06/06/2017 - 06/06/2017 - | Lei Liao Philip James Campagna | | |

¹ Recent is defined as having occurred in the last three years. Source: MorningStar



Review of ScholarShare Policy

Portfolio Management Overview

| Fund. | Ticker | | Current PM Team | | M Departures¹ |
|-------------------------------------|--------|--|--|--|---------------------------------|
| Metropolitan West Total Return Bond | MWTIX | 03/31/1997- 03/31/1997- 12/31/2004- | Stephen M. Kane Laird R. Landman Bryan T. Whalen | 03/31/1997-12/31/2021 | Tad Rivelle |
| PIMCO Real Return | PRRIX | 01/09/2019- 12/11/2019- | Stephen A. Rodosky Daniel He | 01/02/2015-01/09/2019 12/31/2007-12/11/2019 | Jeramie Banet Mihir P. Worah |
| PIMCO Income | PIMIX | 03/30/2007- 03/15/2013- 07/30/2018- | Daniel J. Ivascyn Alfred T. Murata Joshua Anderson | | |
| Vanguard High-Yield Corp Adm | VWEAX | 02/14/2008 - | Michael L. Hong | | |
| Nuveen ESG High Yield | NUHY | 09/29/2017 - 11/30/2021 - 11/30/2021 - | Lijun (Kevin) Chen James Tsang Rui (Vivian) Liu | 09/25/2019 - 11/30/2021 | Yong (Mark) Zheng |
| T.Rowe Price Floating Rate | RPIFX | 05/01/2009- | Paul M. Massaro | | T.Rowe Price Floating Rate |
| Nuveen ESG US Agg Bond | | 09/29/2017 - 11/30/2021 - 11/30/2021 - | Lijun (Kevin) Chen James Tsang Rui (Vivian) Liu | 06/26/2018 - 11/30/2021 | Yong (Mark) Zheng |
| TIAA-CREF Equity Index | TIEIX | 12/31/2005- 05/30/2014- 03/01/2019- | Philip James Campagna Lei Liao Darren Tran | | |
| TIAA-CREF S&P 500 Index | TISPX | 12/31/2005- 05/30/2014- 03/01/2019- | Philip James Campagna Lei Liao Darren Tran | | |

¹ Recent is defined as having occurred in the last three years. Source: MorningStar



Review of ScholarShare Policy

Portfolio Management Overview (continued)

| Fund | Ticker | | Current PM Team | Recent PM Departures¹ |
|--|--------|---|--|-----------------------|
| TIAA-CREF International Equity Index | TCIEX | 08/01/2005- 05/30/2014- 03/01/2019- | Philip James Campagna Lei Liao Darren Tran | |
| TIAA-CREF Emerging Markets Equity Index | TEQLX | 08/31/2010- 05/30/2014- 03/01/2019- | Philip James Campagna Lei Liao Darren Tran | |
| Vanguard REIT Index | VGSLX | 05/13/1996 – 05/25/2016 – | Gerard C. O'Reilly Walter Nejman | |
| Vanguard ST Infl-Prot Sec Index | VTSPX | 10/12/2012 - | Joshua C. Barrickman | |
| TIAA-CREF Bond Index | TBIIX | 12/31/2009- 08/24/2011- | Lijun (Kevin) Chen James Tsang | |

Observations:

ightarrow Heather K. McPherson left the T.Rowe Price Large Cap Value team in May.

¹ Recent is defined as having occurred in the last three years. Source: MorningStar

Sensitivity Analyses



Total Plan | As of June 30, 2022

| | QTD (%) | Rank | 1 Yr (%) | Rank | 3 Yrs (%) | Rank | 5 Yrs (%) | Rank | 10 Yrs (%) | Rank |
|---|---------------|-----------|-------------|-----------|--------------|------|--------------|-----------|---------------|-----------|
| Active Funds | | | | | | | | | | |
| TRowe Price Large Cap Growth I | -22.9 | 68 | -29.4 | 74 | 7.7 | 59 | 12.2 | 35 | 14.8 | 8 |
| Russell 1000 Growth | -20.9 | <i>51</i> | -18.8 | 34 | 12.6 | 7 | 14.3 | 11 | 14.8 | 8 |
| Large Growth MStar MF Median | -20.8 | | -22.6 | | 8.7 | | 11.5 | | 12.9 | |
| TRowe Price Large Cap Value I | -10.6 | 35 | -4.0 | 40 | 8.4 | 45 | 8.0 | 54 | 11.4 | 22 |
| Russell 1000 Value | -12.2 | 69 | -6.8 | 73 | 6.9 | 79 | 7.2 | 76 | 10.5 | <i>55</i> |
| Large Value MStar MF Median | -11.3 | | -5.1 | | 8.2 | | 8.1 | | 10.6 | |
| TIAA-CREF Quant Small Cap Equity I | -16.5 | 58 | -19.6 | 54 | 5.2 | 58 | 5.9 | 58 | 10.3 | 39 |
| Russell 2000 | -17.2 | 64 | -25.2 | 68 | 4.2 | 69 | 5.2 | 69 | 9.4 | 67 |
| Small Cap MStar MF Median | -15. <i>7</i> | | -18.5 | | 5.8 | | 6.3 | | 9.9 | |
| TIAA-CREF Social Choice Equity I | -16.0 | 56 | -14.5 | 83 | 9.9 | 49 | 10.5 | 53 | 12.3 | 55 |
| Russell 3000 | -16.7 | 81 | -13.9 | <i>75</i> | 9.8 | 51 | 10.6 | 46 | 12.6 | 41 |
| Large Blend MStar MF Median | -15. <i>7</i> | | -11.6 | | 9.8 | | 10.5 | | 12.4 | |
| DFA Large Cap International I | -13.2 | 51 | -15.7 | 14 | 2.5 | 27 | 3.0 | 21 | 5.6 | 32 |
| MSCI World ex USA | -14.7 | <i>82</i> | -16.8 | 20 | 1.7 | 49 | <i>2.</i> 7 | 39 | 5.4 | 45 |
| Foreign Large Blend MStar MF Median | -13.2 | | -19.1 | | 1.6 | | 2.3 | | 5.2 | |
| TIAA-CREF Social Choice Intl Equity | -13.4 | 54 | -16.2 | 16 | 2.4 | 29 | 2.9 | 24 | | |
| MSCI EAFE | -14.5 | 81 | -17.8 | 32 | 1.1 | 65 | 2.2 | <i>55</i> | 5.4 | 43 |
| Foreign Large Blend MStar MF Median | -13.2 | | -19.1 | | 1.6 | | 2.3 | | <i>5.2</i> | |
| DFA Emerging Markets Core Equity I | -11.8 | 53 | -19.7 | 15 | 2.7 | 23 | 2.9 | 27 | 3.8 | 27 |
| MSCI Emerging Markets | -11.4 | 43 | -25.3 | <i>37</i> | 0.6 | 47 | 2.2 | 44 | <i>3.1</i> | 50 |
| Diversified Emerging Mkts MStar MF Median | -11.7 | | -27.6 | | 0.5 | | 1.6 | | 3.0 | |
| Metropolitan West Total Return Bond I | -5.7 | 53 | -11.6 | 68 | -0.8 | 68 | 1.1 | 57 | | |
| Bloomberg US Aggregate TR | -4.7 | 14 | -10.3 | 29 | -0.9 | 74 | 0.9 | 71 | 1.5 | 96 |
| Intermediate Core Plus Bond MStar MF Median | -5.7 | | -11.3 | | -0.5 | | 1.1 | | 2.1 | |

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Total Plan | As of June 30, 2022

| | QTD (%) | Rank | 1 Yr (%) | Rank | 3 Yrs (%) | Rank | 5 Yrs (%) | Rank | 10 Yrs (%) | Rank |
|--|------------|-----------|-------------|-----------|--------------|------|--------------|-----------|---------------|------|
| PIMCO Real Return | -6.4 | 68 | -5.8 | 72 | 3.1 | 37 | 3.2 | 26 | 1.7 | 22 |
| Bloomberg US TIPS TR | -6.1 | <i>56</i> | -5.1 | 54 | 3.0 | 44 | 3.2 | 20 | 1.7 | 18 |
| Inflation-Protected Bond MStar MF Median | -6.0 | | -5.0 | | 3.0 | | 3.0 | | 1.6 | |
| PIMCO Income I | -5.2 | 36 | -8.5 | 38 | 0.3 | 45 | 2.0 | 27 | 5.1 | 1 |
| Bloomberg US Aggregate TR | -4.7 | <i>32</i> | -10.3 | <i>58</i> | -0.9 | 83 | 0.9 | <i>87</i> | 1.5 | 99 |
| Multisector Bond MStar MF Median | -6.2 | | -9.7 | | 0.1 | | 1.8 | | 3.1 | |
| Vanguard High-Yield Corp Adm | -8.6 | 22 | -11.2 | 35 | 0.0 | 50 | 1.9 | 37 | 4.1 | 43 |
| Bloomberg US Corporate High Yield TR | -9.8 | 54 | -12.8 | 67 | 0.2 | 41 | 2.1 | <i>33</i> | 4.5 | 23 |
| High Yield Bond MStar MF Median | -9.7 | | -12.3 | | 0.0 | | 1.7 | | 3.9 | |
| TRowe Price Floating Rate I | -4.7 | 22 | -3.2 | 24 | 1.6 | 23 | 2.6 | 10 | 3.5 | 18 |
| S&P/LSTA Performing Loan TR USD | -4.6 | 15 | -2.8 | 14 | 2.3 | 1 | 3.1 | 4 | 4.0 | 1 |
| Bank Loan MStar MF Median | -5.1 | | -4.0 | | 1.1 | | 2.1 | | 3.1 | |
| Passive Funds | | | | | | | | | | |
| TIAA-CREF Equity Index I | -16.7 | 80 | -13.8 | 74 | 9.7 | 52 | 10.6 | 47 | 12.5 | 44 |
| Russell 3000 | -16.7 | 81 | -13.9 | <i>75</i> | 9.8 | 51 | 10.6 | 46 | 12.6 | 41 |
| Large Blend MStar MF Median | -15.7 | | -11.6 | | 9.8 | | 10.5 | | 12.4 | |
| TIAA-CREF S&P 500 Index I | -16.1 | 58 | -10.6 | 35 | 10.6 | 23 | 11.3 | 20 | 12.9 | 20 |
| S&P 500 | -16.1 | <i>58</i> | -10.6 | <i>35</i> | 10.6 | 22 | 11.3 | 18 | 13.0 | 16 |
| Large Blend MStar MF Median | -15.7 | | -11.6 | | 9.8 | | 10.5 | | 12.4 | |
| Vanguard Real Estate Index | -15.5 | 43 | -8.0 | 79 | 4.8 | 69 | 5.7 | 66 | 7.5 | 51 |
| MSCI US IMI Real Estate 25/50 GR USD | -15.4 | <i>36</i> | -7.9 | 77 | 4.9 | 66 | 5.6 | 68 | 6.8 | 81 |
| Real Estate MStar MF Median | -16.4 | | -6.8 | | 5.4 | | 6.3 | | 7.5 | |
| TIAA-CREF International Equity Index | -13.8 | 61 | -17.1 | 23 | 1.4 | 57 | 2.5 | 43 | 5.6 | 33 |
| MSCI EAFE | -14.5 | 81 | -17.8 | 32 | 1.1 | 65 | 2.2 | <i>55</i> | 5.4 | 43 |
| Foreign Large Blend MStar MF Median | -13.2 | | -19.1 | | 1.6 | | 2.3 | | 5.2 | |

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Total Plan | As of June 30, 2022

| | QTD (%) | Rank | 1 Yr (%) | Rank | 3 Yrs (%) | Rank | 5 Yrs (%) | Rank | 10 Yrs (%) | Rank |
|---|------------|-----------|-------------|-----------|--------------|-----------|--------------|-----------|---------------|------|
| TIAA-CREF Emerging Markets Equity Index | -11.2 | 37 | -25.3 | 37 | 0.4 | 54 | 2.0 | 46 | 2.9 | 53 |
| MSCI Emerging Markets | -11.4 | 43 | -25.3 | <i>37</i> | 0.6 | 47 | 2.2 | 44 | 3.1 | 50 |
| Diversified Emerging Mkts MStar MF Median | -11.7 | | -27.6 | | 0.5 | | 1.6 | | 3.0 | |
| Nuveen ESG Emerging Markets Equity ETF | -10.4 | 24 | -24.7 | 32 | 3.3 | 18 | | | | |
| TIAA ESG Emerging Markets Index | -11.2 | <i>37</i> | -24.1 | 31 | 4.1 | 12 | 4.1 | 12 | | |
| Diversified Emerging Mkts MStar MF Median | -11.7 | | -27.6 | | 0.5 | | 1.6 | | 3.0 | |
| TIAA-CREF Bond Index I | -4.7 | 35 | -10.5 | 41 | -1.1 | 71 | 0.7 | 77 | 1.4 | 82 |
| Bloomberg US Aggregate TR | -4.7 | 28 | -10.3 | 28 | -0.9 | 60 | 0.9 | 54 | 1.5 | 67 |
| Intermediate Core Bond MStar MF Median | -4.9 | | -10.6 | | -0.8 | | 0.9 | | 1.7 | |
| Vanguard Short Term Infl-Prot Securities | -1.1 | 1 | 1.0 | 5 | 3.4 | 22 | 2.9 | 57 | | |
| BBg U.S. TIPS 0-5 Years | -1.1 | 1 | 1.1 | 3 | 3.5 | 20 | 3.0 | <i>53</i> | 1.7 | 29 |
| Inflation-Protected Bond MStar MF Median | -6.0 | | -5.0 | | 3.0 | | 3.0 | | 1.6 | |
| Nuveen ESG US Aggregate Bond ETF | -4.7 | 35 | -10.5 | 43 | -1.2 | 87 | | | | |
| BBg MSCI US Agg ESG Select | -4.6 | 21 | -10.1 | 18 | -0.9 | <i>56</i> | 0.9 | <i>52</i> | | |
| Intermediate Core Bond MStar MF Median | -4.9 | | -10.6 | | -0.8 | | 0.9 | | 1.7 | |
| Nuveen ESG High Yield Corp Bond ETF | -11.0 | 90 | -13.9 | 88 | | | | | | |
| BBg MSCI US High Yield Very Liquid ESG Select | -11.0 | 90 | -13.5 | 83 | -1.6 | 98 | | | | |
| High Yield Bond MStar MF Median | -9.7 | | -12.3 | | 0.0 | | 1.7 | | 3.9 | |

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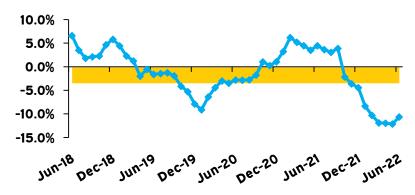


Sensitivity Analyses: Active Funds



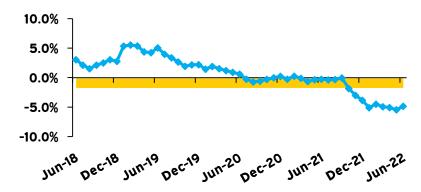
TRowe Price Large Cap Growth I | As of June 30, 2022

Short Term - Rolling 12-Month Excess Return



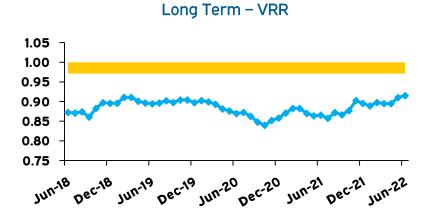
Results fall in the caution range. Probationary Threshold -3.50%

Medium Term - Rolling 36-Month Excess Return



Results fall in the caution range. Probationary Threshold -1.75%

Benchmark: Russell 1000 Growth



Results fall in the caution range. Probationary Threshold < 0.97

| Portfolio | Perforn | nance \$ | Summa | iry | | |
|--------------------------------|------------|-------------|-------------|-------------|--------------|---------------|
| | Qtr (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | Incep (%) | Incep Date |
| TRowe Price Large Cap Growth I | -22.9 | -29.4 | 7.7 | 12.2 | 14.6 | 11/20/2011 |
| Russell 1000 Growth | -20.9 | -18.8 | 12.6 | 14.3 | 14.8 | |

Monitoring Status

Caution, On Watch



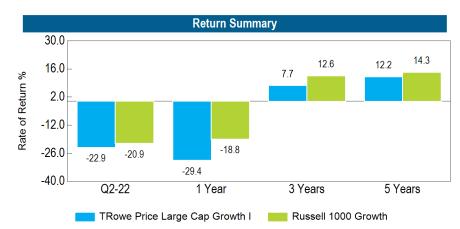
TRowe Price Large Cap Growth I | As of June 30, 2022

Description:

The investment seeks to provide long-term capital appreciation through investments in common stocks of growth companies.

The fund will normally invest at least 80% of its net assets (including any borrowings for investment purposes) in the securities of large-cap companies. The advisor defines a large-cap company as one whose market capitalization is larger than the median market capitalization of companies in the Russell 1000® Growth Index, a widely used benchmark of the largest U.S. growth stocks. The fund is non-diversified.

| Portfolio Fund Information as | s of June 30, 2022 |
|-------------------------------|---------------------|
| Ticker | TRLGX |
| Morningstar Category | Large Growth |
| Average Market Cap (\$mm) | 261,247.02 |
| Net Assets (\$mm) | 15,345.06 |
| % Assets in Top 10 Holdings | 54.49 |
| Total Number of Holdings | 61 |
| Manager Name | Taymour R. Tamaddon |
| Manager Tenure | 6 |
| Expense Ratio | 0.55% |
| Closed to New Investors | No |

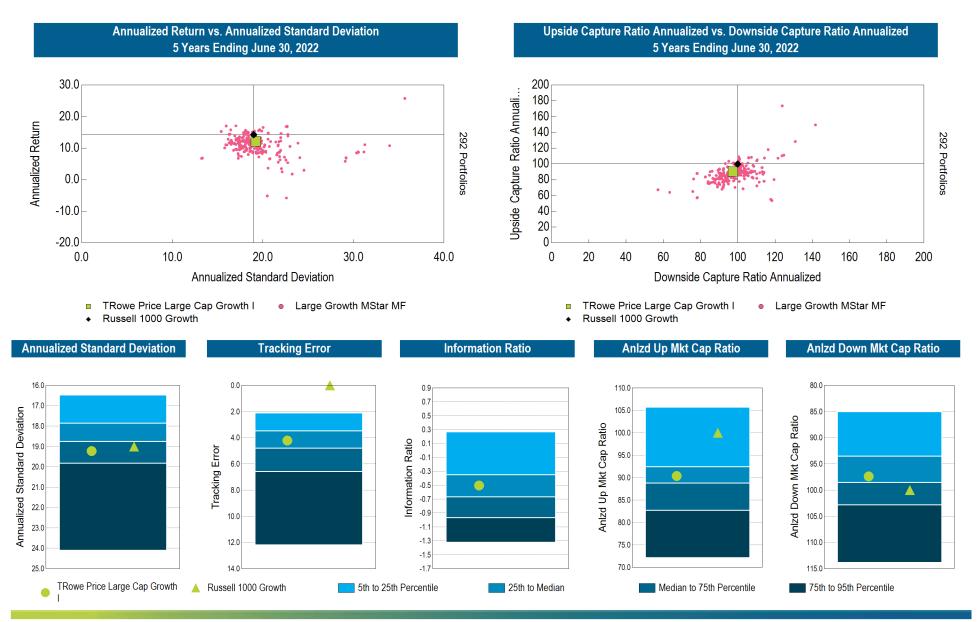








TRowe Price Large Cap Growth I | As of June 30, 2022





TRowe Price Large Cap Growth I | As of June 30, 2022

| Fund Characteristics as of June 30, 2022 | |
|--|------------|
| Sharpe Ratio (3 Year) | 0.34 |
| Average Market Cap (\$mm) | 261,247.02 |
| Price/Earnings | 20.03 |
| Price/Book | 4.50 |
| Price/Sales | 2.51 |
| Price/Cash Flow | 15.06 |
| Dividend Yield | 0.79 |
| Number of Equity Holdings | 60 |
| R-Squared (3 Year) | 0.96 |
| Alpha (3 Year) | -0.36% |

| Sector Allocation as of June 30, 20 | 22 |
|-------------------------------------|--------|
| BASIC MATERIALS | 1.09% |
| COMMUNICATION SERVICES | 17.26% |
| CONSUMER CYCLICAL | 16.74% |
| CONSUMER DEFENSIVE | 1.48% |
| ENERGY | 0.00% |
| FINANCIAL SERVICES | 4.04% |
| HEALTHCARE | 15.88% |
| INDUSTRIALS | 3.03% |
| REAL ESTATE | 0.00% |
| TECHNOLOGY | 40.49% |
| UTILITIES | 0.00% |
| | |

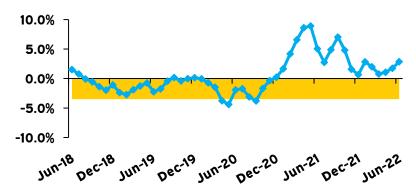
| Top Holdings as of June 30, 2022 | |
|----------------------------------|--------|
| MICROSOFT CORP | 12.13% |
| ALPHABET INC CLASS A | 8.67% |
| AMAZON.COM INC | 8.45% |
| APPLE INC | 6.79% |
| UNITEDHEALTH GROUP INC | 4.54% |
| INTUIT INC | 3.34% |
| CIGNA CORP | 3.15% |
| ALPHABET INC CLASS C | 2.79% |
| FISERV INC | 2.38% |
| RIVIAN AUTOMOTIVE INC CLASS A | 2.25% |

| Top Countrie | es as of June 30, 2022 |
|---------------|------------------------|
| United States | 97.78% |
| Netherlands | 1.47% |
| Japan | 0.39% |
| South Korea | 0.36% |



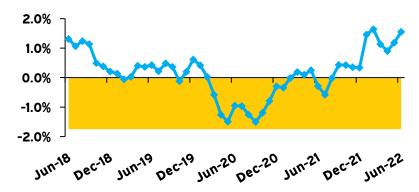
TRowe Price Large Cap Value I | As of June 30, 2022

Short Term - Rolling 12-Month Excess Return



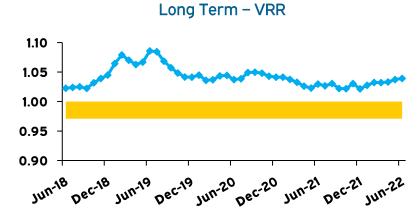
Results fall in the positive range. Probationary Threshold -3.50%

Medium Term - Rolling 36-Month Excess Return



Results fall in the positive range. Probationary Threshold -1.75%

Benchmark: Russell 1000 Value



Results fall in the positive range. Probationary Threshold < 0.97

| Portfolio | Perforn | nance \$ | Summa | iry | | |
|-------------------------------|------------|-------------|-------------|-------------|--------------|---------------|
| | Qtr (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | Incep (%) | Incep Date |
| TRowe Price Large Cap Value I | -10.6 | -4.0 | 8.4 | 8.0 | 11.5 | 11/20/2011 |
| Russell 1000 Value | -12.2 | -6.8 | 6.9 | 7.2 | 10.8 | |

| Monitoring Status |
|-------------------|
| Positive |

MEKETA INVESTMENT GROUP
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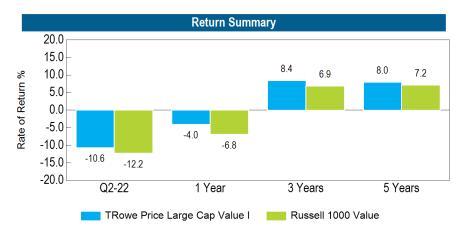
TRowe Price Large Cap Value I | As of June 30, 2022

Description:

The investment seeks long-term capital appreciation; income is a secondary objective.

The fund will normally invest at least 80% of its net assets (including any borrowings for investment purposes) in securities of large-cap companies that the portfolio manager regards as undervalued. The manager defines a large-cap company as having a market capitalization that, at the time of purchase, is either (i) larger than the current median market capitalization of companies in the Russell 1000® Value Index or (ii) larger than the three year average median market capitalization of companies in the index as of December 31 of the three preceding years.

| Portfolio Fund Information as | of June 30, 2022 |
|-------------------------------|------------------|
| Ticker | TILCX |
| Morningstar Category | Large Value |
| Average Market Cap (\$mm) | 75,752.23 |
| Net Assets (\$mm) | 3,168.90 |
| % Assets in Top 10 Holdings | 25.72 |
| Total Number of Holdings | 82 |
| Manager Name | John D. Linehan |
| Manager Tenure | 22 |
| Expense Ratio | 0.55% |
| Closed to New Investors | No |

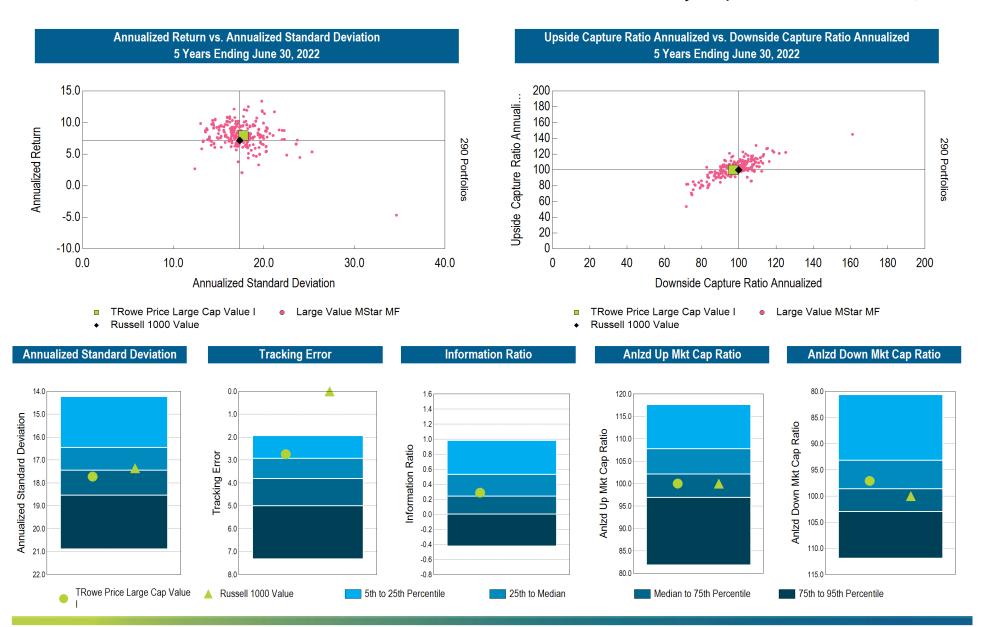








TRowe Price Large Cap Value I | As of June 30, 2022





TRowe Price Large Cap Value I | As of June 30, 2022

| Fund Characteristics as of June 30, 202 | 2 |
|---|-----------|
| Sharpe Ratio (3 Year) | 0.40 |
| Average Market Cap (\$mm) | 75,752.23 |
| Price/Earnings | 12.23 |
| Price/Book | 2.03 |
| Price/Sales | 1.30 |
| Price/Cash Flow | 8.77 |
| Dividend Yield | 2.81 |
| Number of Equity Holdings | 79 |
| R-Squared (3 Year) | 0.97 |
| Alpha (3 Year) | 0.12% |

| Sector Allocation as of June 30, 2022 | |
|---------------------------------------|--------|
| BASIC MATERIALS | 3.13% |
| COMMUNICATION SERVICES | 5.22% |
| CONSUMER CYCLICAL | 5.45% |
| CONSUMER DEFENSIVE | 8.65% |
| ENERGY | 7.23% |
| FINANCIAL SERVICES | 13.95% |
| HEALTHCARE | 21.07% |
| INDUSTRIALS | 10.82% |
| REAL ESTATE | 5.32% |
| TECHNOLOGY | 9.97% |
| UTILITIES | 9.19% |
| | |

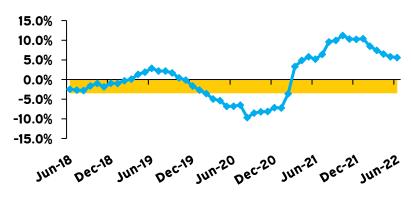
| Top Holdings as of June 30, 2022 | |
|-----------------------------------|-------|
| SOUTHERN CO | 3.20% |
| TOTALENERGIES SE ADR | 3.05% |
| WELLS FARGO & CO | 2.85% |
| UNITED PARCEL SERVICE INC CLASS B | 2.66% |
| GENERAL ELECTRIC CO | 2.55% |
| JOHNSON & JOHNSON | 2.46% |
| QUALCOMM INC | 2.39% |
| CHUBB LTD | 2.25% |
| BECTON, DICKINSON AND CO | 2.17% |
| ELEVANCE HEALTH INC | 2.14% |

| | Top Countries as of June 30, 2022 | |
|---------------|-----------------------------------|-------|
| United States | 91 | 1.82% |
| France | ; | 3.12% |
| Switzerland | 2 | .30% |
| Canada | | 1.51% |
| Germany | 0 | .92% |
| Netherlands | 0 | .33% |



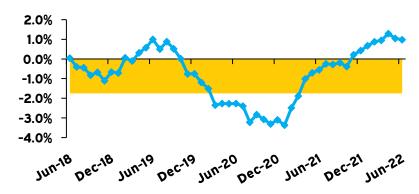
TIAA-CREF Quant Small Cap Equity I | As of June 30, 2022

Short Term - Rolling 12-Month Excess Return



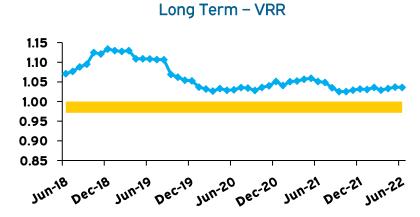
Results fall in the positive range. Probationary Threshold -3.50%

Medium Term - Rolling 36-Month Excess Return



Results fall in the positive range. Probationary Threshold -1.75%

Benchmark: Russell 2000



Results fall in the positive range. Probationary Threshold < 0.97

| Portfolio Performance Summary | | | | | | |
|------------------------------------|------------|-------------|-------------|-------------|--------------|---------------|
| | Qtr (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | Incep (%) | Incep Date |
| TIAA-CREF Quant Small Cap Equity I | -16.5 | -19.6 | 5.2 | 5.9 | 10.4 | 11/20/2011 |
| Russell 2000 | -17.2 | -25.2 | 4.2 | 5.2 | 9.6 | |

| Monitoring Status |
|-------------------|
| Positive |



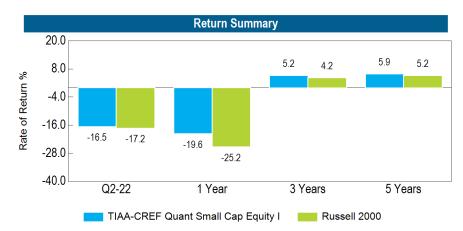
TIAA-CREF Quant Small Cap Equity I | As of June 30, 2022

Description:

The investment seeks a favorable long-term total return, mainly through capital appreciation, primarily from equity securities of smaller domestic companies.

Under normal circumstances, the fund invests at least 80% of its assets in small-cap equity securities. A "small-cap" equity security is a security within the capitalization range of the companies included in the fund's benchmark index, the Russell 2000® Index, at the time of purchase. It invests primarily in equity securities of smaller domestic companies across a wide range of sectors, growth rates and valuations.

| Portfolio Fund Information as of May 31 | , 2022 |
|---|-------------|
| Ticker | TISEX |
| Morningstar Category | Small Blend |
| Average Market Cap (\$mm) | 2,594.24 |
| Net Assets (\$mm) | 1,444.86 |
| % Assets in Top 10 Holdings | 8.78 |
| Total Number of Holdings | 436 |
| Manager Name | Pei Chen |
| Manager Tenure | 6 |
| Expense Ratio | 0.41% |
| Closed to New Investors | No |

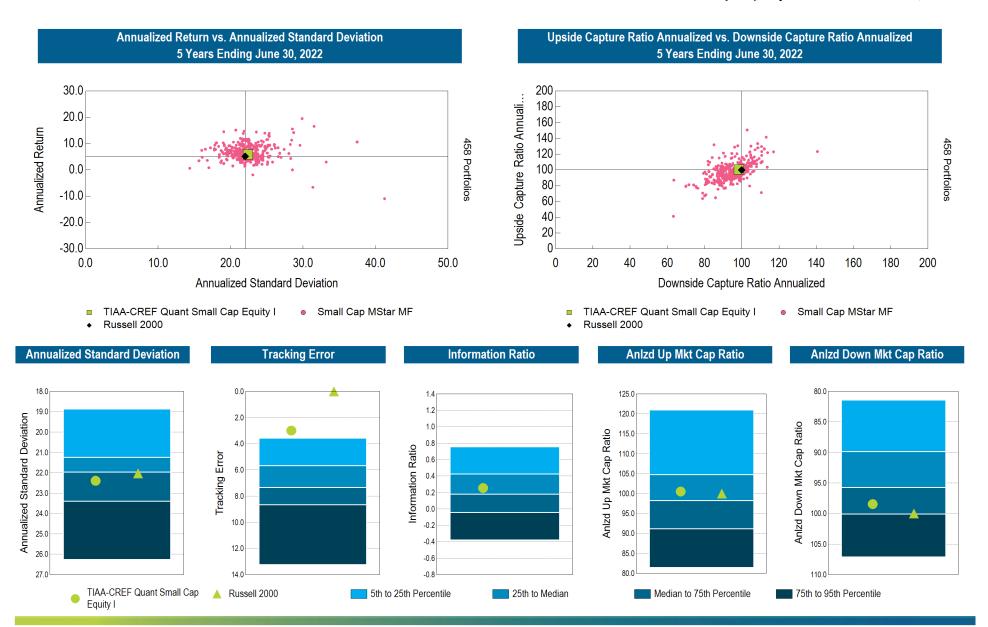








TIAA-CREF Quant Small Cap Equity I | As of June 30, 2022





TIAA-CREF Quant Small Cap Equity I | As of June 30, 2022

| Fund Characteristics as of May 31, 2022 | |
|---|----------|
| Sharpe Ratio (3 Year) | 0.41 |
| Average Market Cap (\$mm) | 2,594.24 |
| Price/Earnings | 11.05 |
| Price/Book | 1.69 |
| Price/Sales | 0.80 |
| Price/Cash Flow | 5.18 |
| Dividend Yield | 1.22 |
| Number of Equity Holdings | 429 |
| R-Squared (3 Year) | 0.98 |
| Alpha (3 Year) | 0.08% |

| 4.81% |
|--------|
| 3.89% |
| 7.88% |
| 4.57% |
| 9.22% |
| 15.66% |
| 14.92% |
| 14.87% |
| 7.52% |
| 12.81% |
| 3.85% |
| |

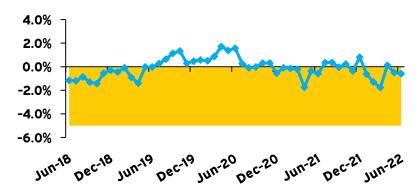
| Top Holdings as of May 31, 2022 | |
|--------------------------------------|-------|
| E MINI RUSS 2000 JUN22 XCME 20220617 | 1.36% |
| OVINTIV INC | 1.14% |
| BJ'S WHOLESALE CLUB HOLDINGS INC | 0.94% |
| LANTHEUS HOLDINGS INC | 0.89% |
| ANTERO RESOURCES CORP | 0.87% |
| PBF ENERGY INC CLASS A | 0.81% |
| COMFORT SYSTEMS USA INC | 0.75% |
| KBR INC | 0.69% |
| NATIONAL STORAGE AFFILIATES TRUST | 0.68% |
| WILLSCOT MOBILE MINI HOLDINGS CORP | 0.64% |

| Top Countries as o | of May 31, 2022 |
|--------------------|-----------------|
| United States | 98.42% |
| Puerto Rico | 0.47% |
| Brazil | 0.45% |
| Ireland | 0.19% |
| Chile | 0.18% |
| Marshall Islands | 0.10% |
| Hong Kong | 0.09% |
| Israel | 0.09% |



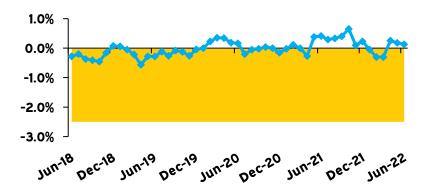
TIAA-CREF Social Choice Equity I | As of June 30, 2022

Short Term - Rolling 12-Month Excess Return



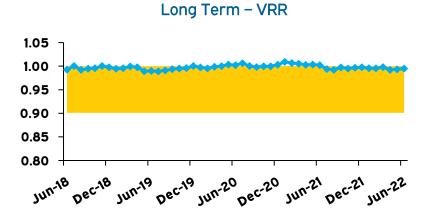
Results fall in the positive range. Probationary Threshold -5.00%

Medium Term - Rolling 36-Month Excess Return



Results fall in the positive range. Probationary Threshold -2.50%

Benchmark: Russell 3000



Results fall in the acceptable range. Probationary Threshold <0.90

| Portfolio Performance Summary | | | | | | |
|----------------------------------|------------|-------------|-------------|-------------|--------------|---------------|
| | Qtr (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | Incep (%) | Incep Date |
| TIAA-CREF Social Choice Equity I | -16.0 | -14.5 | 9.9 | 10.5 | 12.1 | 11/20/2011 |
| Russell 3000 | -16.7 | -13.9 | 9.8 | 10.6 | 12.7 | |

| Monitoring Status |
|-------------------|
| Acceptable |



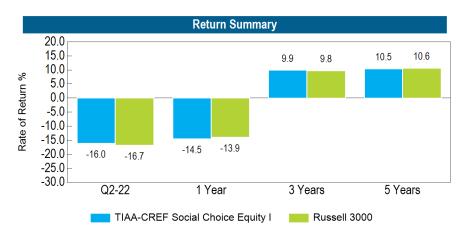
TIAA-CREF Social Choice Equity I | As of June 30, 2022

Description:

The investment seeks a favorable long-term total return that reflects the investment performance of the overall U.S. stock market while giving special consideration to certain ESG criteria.

Under normal circumstances, the fund invests at least 80% of its assets in equity securities. The Advisor attempts to achieve the return of the U.S. stock market as represented by its benchmark, the Russell 3000® Index, while taking into consideration certain ESG criteria.

| Portfolio Fund Information as of May 31, 2022 | | |
|---|----------------------------|--|
| Ticker | TISCX | |
| Morningstar Category | Large Blend | |
| Average Market Cap (\$mm) | 78,114.11 | |
| Net Assets (\$mm) | 5,034.81 | |
| % Assets in Top 10 Holdings | 16.93 | |
| Total Number of Holdings | 544 | |
| Manager Name | Philip James(Jim) Campagna | |
| Manager Tenure | 17 | |
| Expense Ratio | 0.17% | |
| Closed to New Investors | No | |

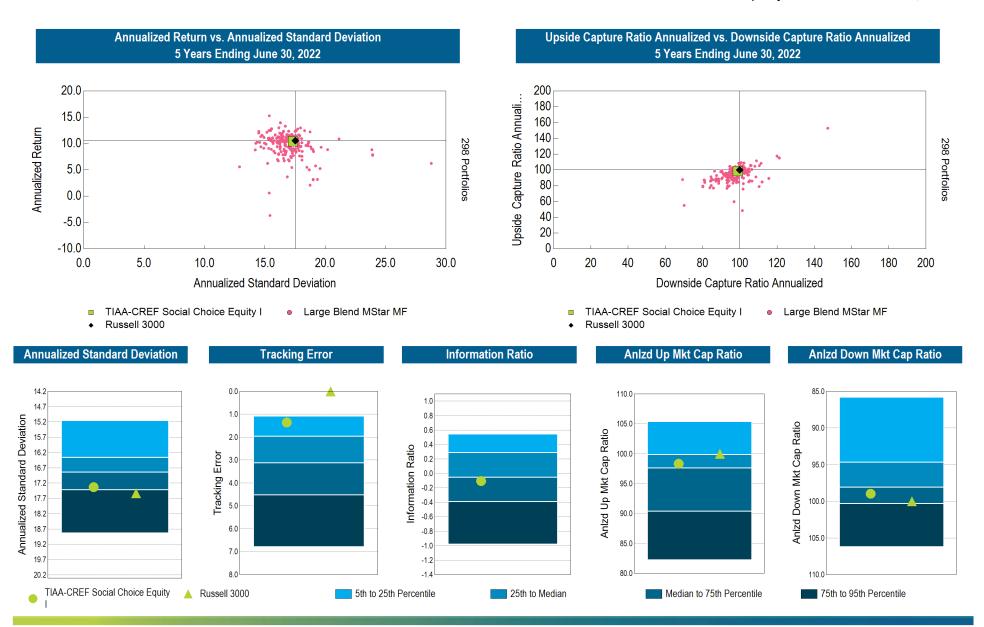








TIAA-CREF Social Choice Equity I | As of June 30, 2022





TIAA-CREF Social Choice Equity I | As of June 30, 2022

| Fund Characteristics as of May 31, 2022 | |
|---|-----------|
| Sharpe Ratio (3 Year) | 0.82 |
| Average Market Cap (\$mm) | 78,114.11 |
| Price/Earnings | 17.22 |
| Price/Book | 2.94 |
| Price/Sales | 2.11 |
| Price/Cash Flow | 11.16 |
| Dividend Yield | 1.66 |
| Number of Equity Holdings | 538 |
| R-Squared (3 Year) | 0.99 |
| Alpha (3 Year) | 0.03% |

| Sector Allocation as of May 31, 2022 | | |
|--------------------------------------|--------|--|
| BASIC MATERIALS | 1.94% | |
| COMMUNICATION SERVICES | 5.97% | |
| CONSUMER CYCLICAL | 9.88% | |
| CONSUMER DEFENSIVE | 6.06% | |
| ENERGY | 4.64% | |
| FINANCIAL SERVICES | 15.86% | |
| HEALTHCARE | 14.53% | |
| INDUSTRIALS | 9.74% | |
| REAL ESTATE | 2.97% | |
| TECHNOLOGY | 25.05% | |
| UTILITIES | 3.36% | |

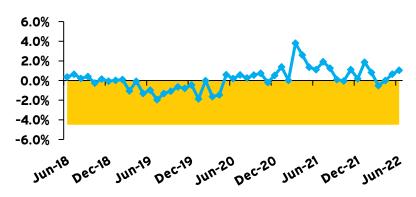
| Top Holdings as of May 31, 2022 | | |
|---------------------------------|-------|--|
| MICROSOFT CORP | 5.43% | |
| TESLA INC | 1.88% | |
| NVIDIA CORP | 1.56% | |
| PROCTER & GAMBLE CO | 1.34% | |
| THE HOME DEPOT INC | 1.24% | |
| MASTERCARD INC CLASS A | 1.23% | |
| ELI LILLY AND CO | 1.11% | |
| COCA-COLA CO | 1.08% | |
| PEPSICO INC | 1.05% | |
| THERMO FISHER SCIENTIFIC INC | 1.02% | |

| | Top Countries as of May 31, 2022 | |
|----------------|----------------------------------|--------|
| United States | | 98.61% |
| Switzerland | | 0.71% |
| Netherlands | | 0.60% |
| United Kingdom | | 0.04% |
| Ireland | | 0.03% |
| Canada | | 0.01% |



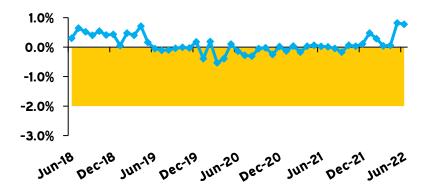
DFA Large Cap International I | As of June 30, 2022

Short Term - Rolling 12-Month Excess Return



Results fall in the positive range. Probationary Threshold -4.50%

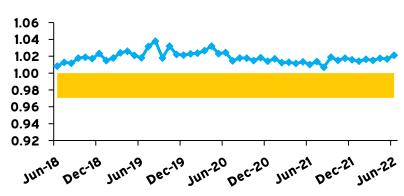
Medium Term - Rolling 36-Month Excess Return



Results fall in the positive range. Probationary Threshold -2.00%

Benchmark: MSCI World ex USA

Long Term – VRR



Results fall in the positive range. Probationary Threshold < 0.97

| Portfolio Performance Summary | | | | | | |
|-------------------------------|------------|-------------|-------------|-------------|--------------|---------------|
| | Qtr (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | Incep (%) | Incep Date |
| DFA Large Cap International I | -13.2 | -15.7 | 2.5 | 3.0 | 5.1 | 11/20/2011 |
| MSCI World ex USA | -14.7 | -16.8 | 1.7 | 2.7 | 4.7 | |

| Monitoring Status |
|-------------------|
| Positive |



DFA Large Cap International I | As of June 30, 2022

Description:

The investment seeks long-term capital appreciation.

The Portfolio will invest at least 80% of its net assets in securities of large cap companies in the particular markets in which the Portfolio invests. The Advisor determines the minimum market capitalization of a large company with respect to each country or region in which the Portfolio invests. It also may purchase or sell futures contracts and options on futures contracts for foreign or U.S. equity securities and indices, to increase or decrease equity market exposure based on actual or expected cash inflows to or outflows from the Portfolio.

| Portfolio Fund Information as of June 30, 2022 | | |
|--|---------------------|--|
| Ticker | DFALX | |
| Morningstar Category | Foreign Large Blend | |
| Average Market Cap (\$mm) | 28,921.82 | |
| Net Assets (\$mm) | 5,029.98 | |
| % Assets in Top 10 Holdings | 10.15 | |
| Total Number of Holdings | 1,342 | |
| Manager Name | Jed S. Fogdall | |
| Manager Tenure | 12 | |
| Expense Ratio | 0.18% | |
| Closed to New Investors | No | |

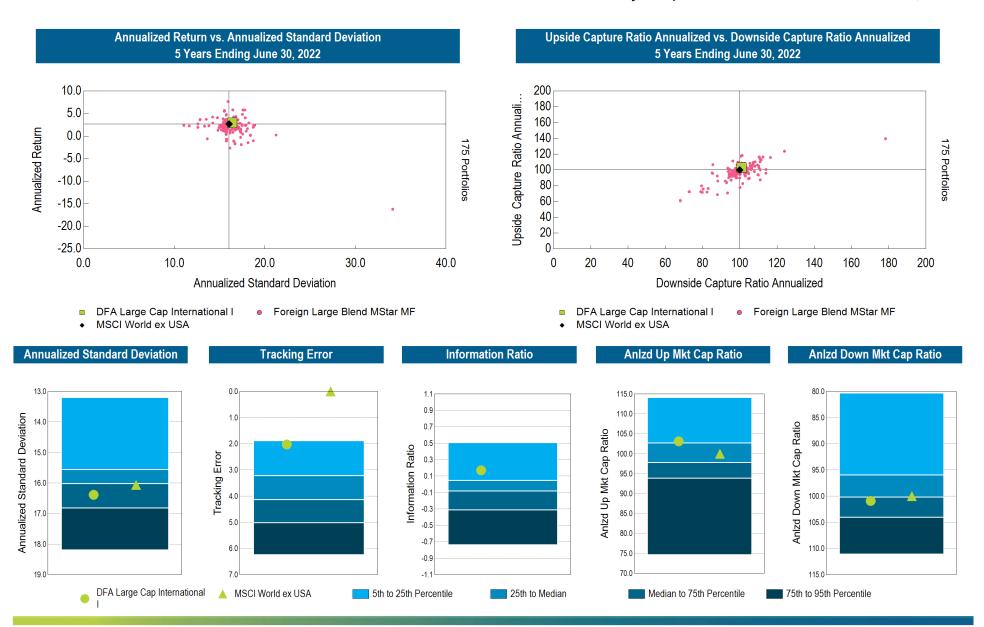








DFA Large Cap International I | As of June 30, 2022





DFA Large Cap International I | As of June 30, 2022

| Fund Characteristics as of June 30, 2022 | | |
|--|-----------|--|
| Sharpe Ratio (3 Year) | 0.11 | |
| Average Market Cap (\$mm) | 28,921.82 | |
| Price/Earnings | 10.77 | |
| Price/Book | 1.38 | |
| Price/Sales | 0.98 | |
| Price/Cash Flow | 5.25 | |
| Dividend Yield | 3.75 | |
| Number of Equity Holdings | 1,321 | |
| R-Squared (3 Year) | 0.98 | |
| Alpha (3 Year) | 0.07% | |

| Sector Allocation as of June 30, 2022 | |
|---------------------------------------|--------|
| BASIC MATERIALS | 10.22% |
| COMMUNICATION SERVICES | 6.33% |
| CONSUMER CYCLICAL | 10.61% |
| CONSUMER DEFENSIVE | 9.65% |
| ENERGY | 7.00% |
| FINANCIAL SERVICES | 17.52% |
| HEALTHCARE | 11.14% |
| INDUSTRIALS | 15.35% |
| REAL ESTATE | 1.55% |
| TECHNOLOGY | 7.12% |
| UTILITIES | 3.51% |

| Top Holdings as of June 30, 2022 | | |
|--|-------|--|
| NESTLE SA | 1.59% | |
| ROCHE HOLDING AG | 1.36% | |
| NOVO NORDISK A/S ADR | 1.11% | |
| LVMH MOET HENNESSY LOUIS VUITTON SE | 0.97% | |
| SHELL PLC ADR (REPRESENTING - ORDINARY SHARES) | 0.95% | |
| S+P500 EMINI FUT SEP22 XCME 20220916 | 0.94% | |
| ROYAL BANK OF CANADA | 0.93% | |
| TOTALENERGIES SE | 0.85% | |
| TOYOTA MOTOR CORP | 0.74% | |
| NOVARTIS AG | 0.71% | |

| | Top Countries as of June 30, 2022 | |
|----------------|-----------------------------------|--------|
| Japan | | 21.27% |
| United Kingdom | | 13.19% |
| Canada | | 11.25% |
| France | | 8.88% |
| Switzerland | | 8.77% |
| Germany | | 7.06% |
| Australia | | 6.94% |
| Netherlands | | 4.06% |
| Sweden | | 2.82% |
| Hona Kona | | 2.38% |



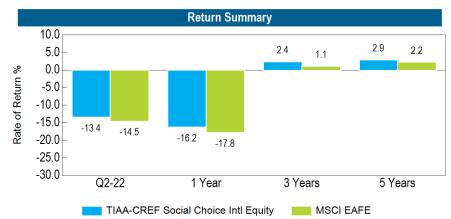
TIAA-CREF Social Choice Intl Equity | As of June 30, 2022

Description:

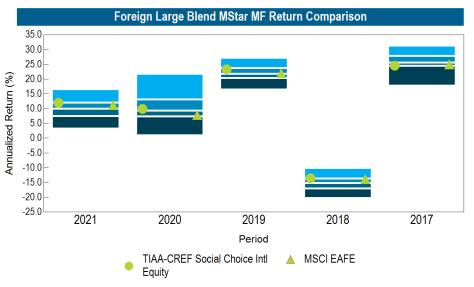
The investment seeks a favorable long-term total return that reflects the investment performance of the overall foreign equity markets while giving special consideration to certain environmental, social and governance ("ESG") criteria.

Under normal circumstances, the fund invests at least 80% of its assets in equity securities of foreign issuers. The advisor attempts to achieve the return of the foreign equity markets, as represented by its benchmark index, the Morgan Stanley Capital International EAFE® (Europe, Australasia, Far East) Index (the "MSCI EAFE Index"), while taking into consideration certain ESG criteria.

| Portfolio Fund Information as of June 30, 2022 | | | |
|--|----------------------------|--|--|
| Ticker | TSONX | | |
| Morningstar Category | Foreign Large Blend | | |
| Average Market Cap (\$mm) | 36,019.12 | | |
| Net Assets (\$mm) | 613.03 | | |
| % Assets in Top 10 Holdings | 15.57 | | |
| Total Number of Holdings | 366 | | |
| Manager Name | Philip James(Jim) Campagna | | |
| Manager Tenure | 7 | | |
| Expense Ratio | 0.36% | | |
| Closed to New Investors | No | | |

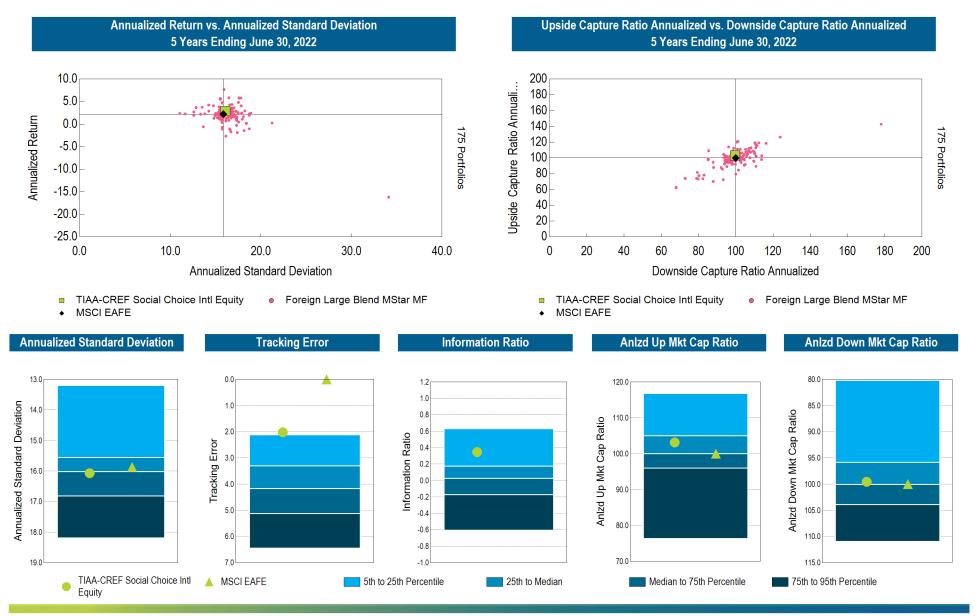








TIAA-CREF Social Choice Intl Equity | As of June 30, 2022





TIAA-CREF Social Choice Intl Equity | As of June 30, 2022

| Fund Characteristics as of June 30, 2022 | | |
|--|-----------|--|
| Sharpe Ratio (3 Year) | 0.10 | |
| Average Market Cap (\$mm) | 36,019.12 | |
| Price/Earnings | 12.03 | |
| Price/Book | 1.46 | |
| Price/Sales | 1.07 | |
| Price/Cash Flow | 6.40 | |
| Dividend Yield | 3.96 | |
| Number of Equity Holdings | 358 | |
| R-Squared (3 Year) | 0.98 | |
| Alpha (3 Year) | 0.11% | |

| Sector Allocation as of June 30, 2022 | |
|---------------------------------------|--------|
| BASIC MATERIALS | 7.90% |
| COMMUNICATION SERVICES | 6.68% |
| CONSUMER CYCLICAL | 9.07% |
| CONSUMER DEFENSIVE | 10.55% |
| ENERGY | 5.35% |
| FINANCIAL SERVICES | 17.88% |
| HEALTHCARE | 13.87% |
| INDUSTRIALS | 13.47% |
| REAL ESTATE | 3.21% |
| TECHNOLOGY | 8.58% |
| UTILITIES | 3.44% |

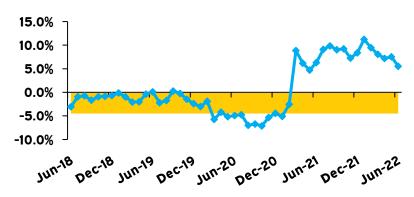
| Top Holdings as of June 30, 2022 | | |
|----------------------------------|-------|--|
| NESTLE SA | 2.62% | |
| ROCHE HOLDING AG | 1.96% | |
| ASTRAZENECA PLC | 1.74% | |
| ASML HOLDING NV | 1.64% | |
| NOVO NORDISK A/S CLASS B | 1.61% | |
| TOYOTA MOTOR CORP | 1.45% | |
| HSBC HOLDINGS PLC | 1.22% | |
| TOTALENERGIES SE | 1.21% | |
| AIA GROUP LTD | 1.06% | |
| GSK PLC | 1.06% | |

| | Top Countries as of June 30, 2022 | |
|----------------|-----------------------------------|--------|
| Japan | | 22.65% |
| United Kingdom | | 14.76% |
| Switzerland | | 10.87% |
| France | | 10.42% |
| Germany | | 7.78% |
| Australia | | 7.22% |
| Netherlands | | 3.79% |
| Hong Kong | | 3.18% |
| Sweden | | 3.04% |
| Denmark | | 2.82% |



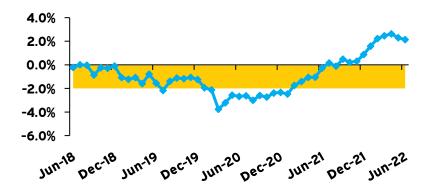
DFA Emerging Markets Core Equity I | As of June 30, 2022

Short Term - Rolling 12-Month Excess Return



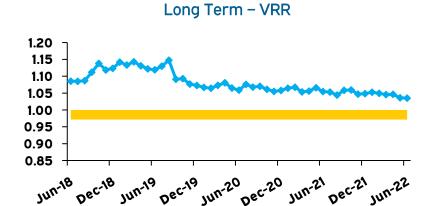
Results fall in the positive range. Probationary Threshold -4.50%

Medium Term - Rolling 36-Month Excess Return



Results fall in the positive range. Probationary Threshold -2.00%

Benchmark: MSCI Emerging Markets



Results fall in the positive range. Probationary Threshold < 0.97

| Portfolio Performance Summary | | | | | | |
|------------------------------------|------------|-------------|-------------|-------------|--------------|---------------|
| | Qtr (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | Incep (%) | Incep Date |
| DFA Emerging Markets Core Equity I | -11.8 | -19.7 | 2.7 | 2.9 | 3.3 | 11/20/2011 |
| MSCI Emerging Markets | -11.4 | -25.3 | 0.6 | 2.2 | 2.5 | |

| Monitoring Status |
|-------------------|
| Positive |



DFA Emerging Markets Core Equity I | As of June 30, 2022

Description:

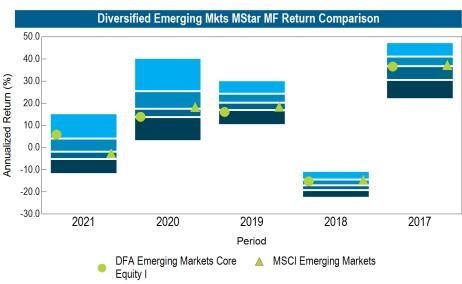
The investment seeks long-term capital appreciation.

The Portfolio purchases a broad and diverse group of securities associated with emerging markets, which may include frontier markets (emerging market countries in an earlier stage of development), authorized for investment by the Advisor's Investment Committee ("Approved Markets"). It may gain exposure to companies in Approved Markets by purchasing equity securities in the form of depositary receipts, which may be listed or traded outside the issuer's domicile country.

| Portfolio Fund Information as of June 30, 2022 | | | | | |
|--|---------------------------|--|--|--|--|
| Ticker | DFCEX | | | | |
| Morningstar Category | Diversified Emerging Mkts | | | | |
| Average Market Cap (\$mm) | 10,123.51 | | | | |
| Net Assets (\$mm) | 24,971.65 | | | | |
| % Assets in Top 10 Holdings | 14.64 | | | | |
| Total Number of Holdings | 6,856 | | | | |
| Manager Name | Jed S. Fogdall | | | | |
| Manager Tenure | 12 | | | | |
| Expense Ratio | 0.39% | | | | |
| Closed to New Investors | No | | | | |

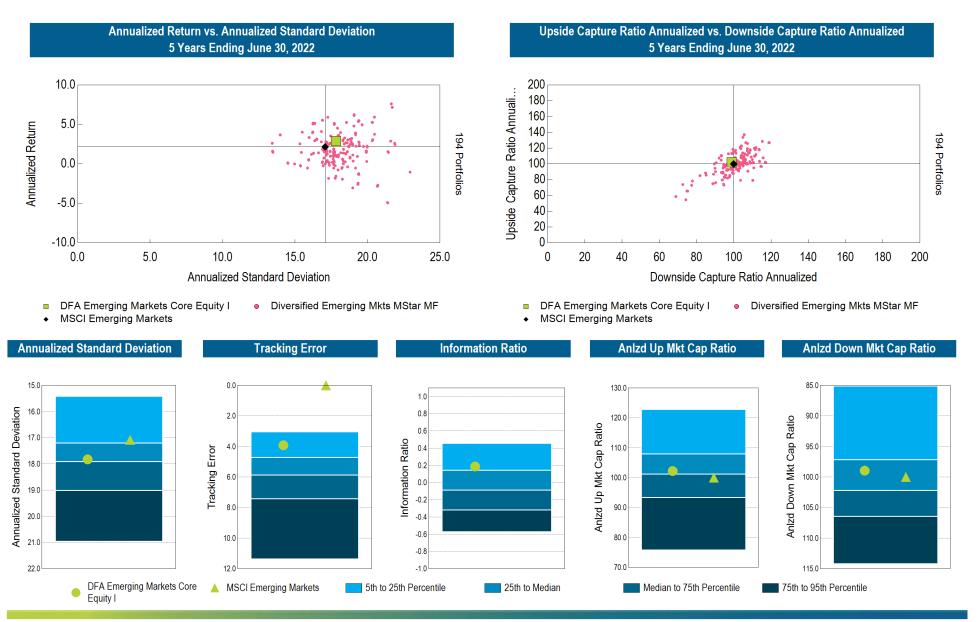








DFA Emerging Markets Core Equity I | As of June 30, 2022





DFA Emerging Markets Core Equity I | As of June 30, 2022

| Fund Characteristics as of June 30, 2022 | |
|--|-----------|
| Sharpe Ratio (3 Year) | 0.11 |
| Average Market Cap (\$mm) | 10,123.51 |
| Price/Earnings | 8.47 |
| Price/Book | 1.17 |
| Price/Sales | 0.75 |
| Price/Cash Flow | 4.16 |
| Dividend Yield | 4.11 |
| Number of Equity Holdings | 6,763 |
| R-Squared (3 Year) | 0.95 |
| Alpha (3 Year) | 0.19% |

| Sector Allocation as of June 30, 2022 | |
|---------------------------------------|--------|
| BASIC MATERIALS | 11.83% |
| COMMUNICATION SERVICES | 7.83% |
| CONSUMER CYCLICAL | 11.54% |
| CONSUMER DEFENSIVE | 6.12% |
| ENERGY | 5.04% |
| FINANCIAL SERVICES | 16.41% |
| HEALTHCARE | 4.50% |
| INDUSTRIALS | 9.90% |
| REAL ESTATE | 3.79% |
| TECHNOLOGY | 19.70% |
| UTILITIES | 3.35% |

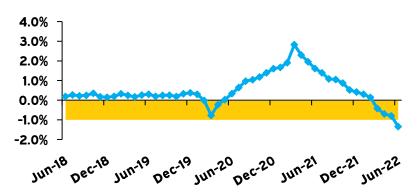
| Top Holdings as of June 30, 2022 | |
|--|-------|
| TENCENT HOLDINGS LTD | 2.82% |
| SAMSUNG ELECTRONICS CO LTD | 2.73% |
| TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD | 2.67% |
| TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD ADR | 1.19% |
| ALIBABA GROUP HOLDING LTD ADR | 1.13% |
| CHINA CONSTRUCTION BANK CORP CLASS H | 1.00% |
| VALE SA | 0.91% |
| PING AN INSURANCE (GROUP) CO. OF CHINA LTD CLASS H | 0.82% |
| RELIANCE INDUSTRIES LTD | 0.78% |
| INFOSYS LTD | 0.59% |

| | Top Countries as of June 30, 2022 | |
|--------------|-----------------------------------|--------|
| China | | 30.31% |
| Taiwan | | 16.68% |
| India | | 14.46% |
| South Korea | | 11.99% |
| Brazil | | 4.86% |
| South Africa | | 3.85% |
| Saudi Arabia | | 3.49% |
| Thailand | | 2.59% |
| Mexico | | 2.38% |
| Indonesia | | 2.03% |



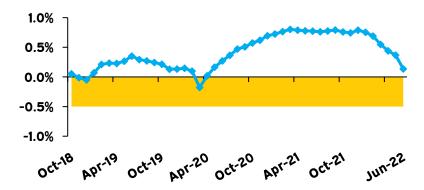
Metropolitan West Total Return Bond I | As of June 30, 2022

Short Term - Rolling 12-Month Excess Return



Results fall in the acceptable range. Probationary Threshold -1.00%

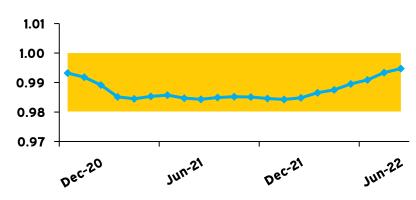
Medium Term - Rolling 36-Month Excess Return



Results fall in the positive range. Probationary Threshold -0.50%

Benchmark: Bloomberg US Aggregate TR

Long Term – VRR



Results fall in the acceptable range. Probationary Threshold <0.98

| Portfolio Performance Summary | | | | | | |
|---------------------------------------|------------|-------------|-------------|-------------|--------------|---------------|
| | Qtr (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | Incep (%) | Incep Date |
| Metropolitan West Total Return Bond I | -5.7 | -11.6 | -0.8 | 1.1 | 1.4 | 10/7/2015 |
| Bloomberg US Aggregate TR | -4.7 | -10.3 | -0.9 | 0.9 | 1.3 | |

| Monitoring Status |
|-------------------|
| Acceptable |



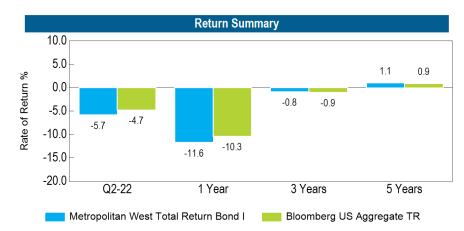
Metropolitan West Total Return Bond I | As of June 30, 2022

Description:

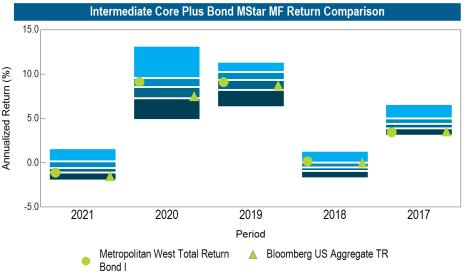
The investment seeks to maximize long-term total return.

The fund pursues its objective by investing, under normal circumstances, at least 80% of its net assets in investment grade fixed income securities or unrated securities determined by the Adviser to be of comparable quality. Up to 20% of the fund's net assets may be invested in securities rated below investment grade or unrated securities determined by the Adviser to be of comparable quality. The fund also invests at least 80% of its net assets, plus any borrowings for investment purposes in fixed income securities it regards as bonds.

| Portfolio Fund Information as of May 31, 2022 | | | | | |
|---|-----------------------------|--|--|--|--|
| Ticker | MWTIX | | | | |
| Morningstar Category | Intermediate Core-Plus Bond | | | | |
| Average Market Cap (\$mm) | | | | | |
| Net Assets (\$mm) | 43,574.25 | | | | |
| % Assets in Top 10 Holdings | 37.76 | | | | |
| Total Number of Holdings | 1,906 | | | | |
| Manager Name | Stephen M. Kane | | | | |
| Manager Tenure | 25 | | | | |
| Expense Ratio | 0.45% | | | | |
| Closed to New Investors | No | | | | |

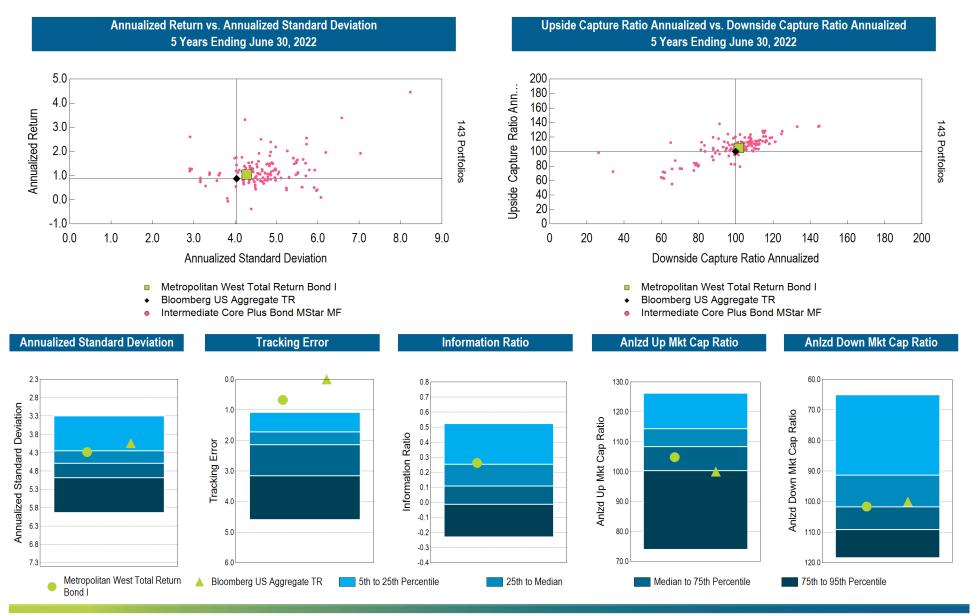








Metropolitan West Total Return Bond I | As of June 30, 2022





Metropolitan West Total Return Bond I \mid As of June 30, 2022

| Fund Characteristics as of May 31, 2022 | | Top Holdings as of May 31, 2022 | | Fixed Income Sectors as of | May 31, 2022 |
|---|-------|--|--------|----------------------------|--------------|
| Sharpe Ratio (3 Year) | -0.04 | FEDERAL NATIONAL MORTGAGE ASSOCIATION | 7.24% | GOVERNMENT | 26.37% |
| Average Duration | 6.48 | 2.5% | 1.24/0 | MUNICIPAL | 0.58% |
| Average Coupon | 2.84% | FEDERAL NATIONAL MORTGAGE ASSOCIATION | 5.16% | CORPORATE | 26.11% |
| Average Effective Maturity | 8.98 | | 3.1070 | SECURITIZED | 40.93% |
| R-Squared (3 Year) | | UNITED STATES TREASURY NOTES 2.625% | 4.64% | CASH & EQUIVALENTS | 4.33% |
| Alpha (3 Year) | 0.03% | UNITED STATES TREASURY NOTES 2.625% | 3.89% | DERIVATIVE | 1.69% |
| Beta (3 Year) | 1.05 | UNITED STATES TREASURY NOTES 2.75% | 3.77% | | |
| | | FEDERAL NATIONAL MORTGAGE ASSOCIATION 3% | 3.56% | | |
| | | UNITED STATES TREASURY BONDS 2% | 3.19% | | |
| | | UNITED STATES TREASURY BONDS 2.375% | 2.85% | | |
| | | UNITED STATES TREASURY NOTES 2.5% | 1.80% | | |
| | | UNITED STATES TREASURY NOTES 2.5% | 1.67% | | |

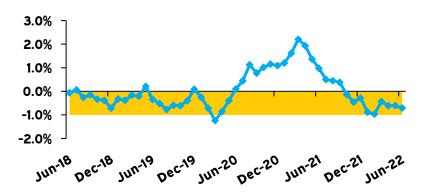
| | Credit Quality as of March 31, 2022 | Maturities as of May 31, 2022 | | Top Countries as of May 31, 2022 | |
|----------|-------------------------------------|-------------------------------|--------|----------------------------------|--------|
| AAA | 58.88% | 1 to 3 Years | 12.16% | United States | 93.38% |
| AA | 5.27% | 3 to 5 Years | 12.18% | United Kingdom | 1.69% |
| A | 13.02% | 5 to 7 Years | 9.39% | Cayman Islands | 0.55% |
| BBB | 15.45% | 7 to 10 Years | 6.56% | Germany | 0.55% |
| ВВ | 2.87% | 10 to 15 Years | 7.17% | Ireland | 0.55% |
| В | 1.16% | 15 to 20 Years | 9.55% | Switzerland | 0.46% |
| Below B | 3.54% | 20 to 30 Years | 16.74% | Australia | 0.39% |
| Not Rate | ed -0.19% | Greater than 30 Years | 23.49% | Mexico | 0.39% |
| | | | | Netherlands | 0.33% |
| | | | | Belgium | 0.24% |

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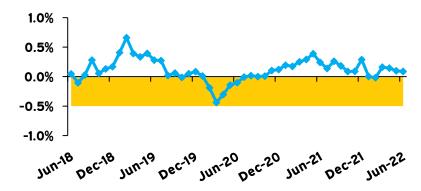
PIMCO Real Return | As of June 30, 2022

Short Term - Rolling 12-Month Excess Return



Results fall in the acceptable range. Probationary Threshold -1.00%

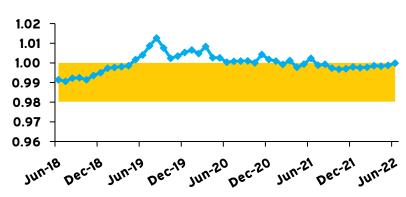
Medium Term - Rolling 36-Month Excess Return



Results fall in the positive range. Probationary Threshold -0.50%

Benchmark: Bloomberg US TIPS TR

Long Term – VRR



Results fall in the acceptable range. Probationary Threshold <0.98

| Portfolio Performance Summary | | | | | | |
|-------------------------------|------------|-------------|-------------|-------------|--------------|---------------|
| | Qtr (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | Incep (%) | Incep Date |
| PIMCO Real Return | -6.4 | -5.8 | 3.1 | 3.2 | 2.1 | 11/20/2011 |
| Bloomberg US TIPS TR | -6.1 | -5.1 | 3.0 | 3.2 | 2.1 | |

| Monitoring Status |
|-------------------|
| Acceptable |



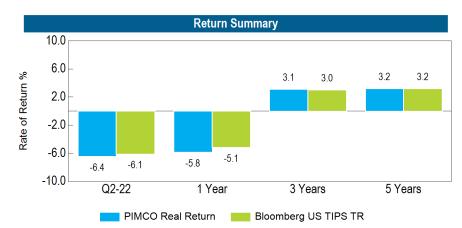
PIMCO Real Return | As of June 30, 2022

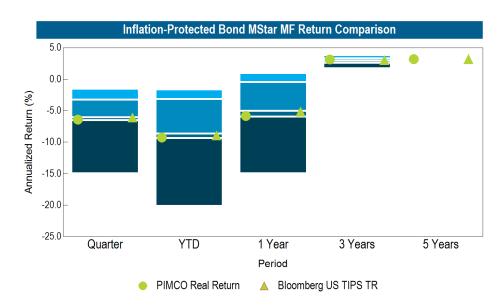
Description:

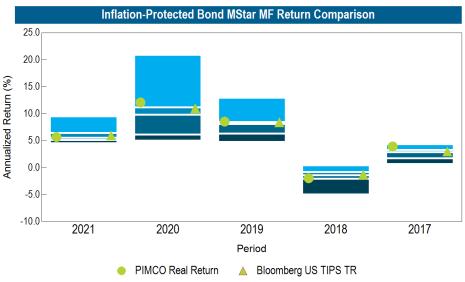
The investment seeks maximum real return, consistent with preservation of capital and prudent investment management.

The fund normally invests at least 80% of its net assets in inflation-indexed bonds of varying maturities issued by the U.S. and non-U.S. governments, their agencies or instrumentalities, and corporations, which may be represented by forwards or derivatives such as options, futures contracts or swap agreements.

| Portfolio Fund Information as of March 31, 2022 | | | | | |
|---|--------------------------|--|--|--|--|
| Ticker | PRRIX | | | | |
| Morningstar Category | Inflation-Protected Bond | | | | |
| Average Market Cap (\$mm) | | | | | |
| Net Assets (\$mm) | 7,690.22 | | | | |
| % Assets in Top 10 Holdings | 68.25 | | | | |
| Total Number of Holdings | 843 | | | | |
| Manager Name | Stephen A. Rodosky | | | | |
| Manager Tenure | 4 | | | | |
| Expense Ratio | 0.47% | | | | |
| Closed to New Investors | No | | | | |

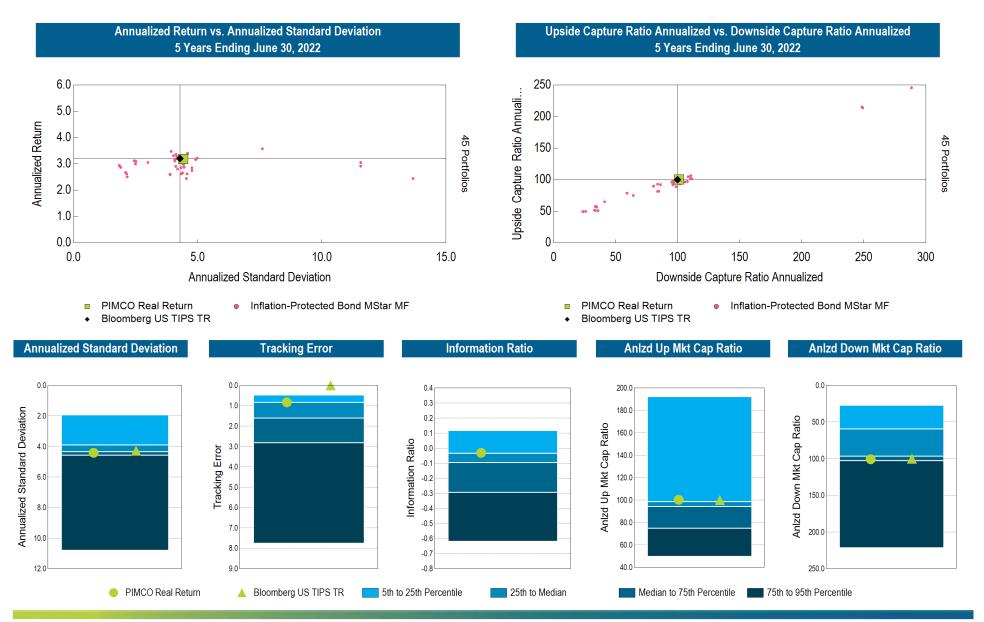








PIMCO Real Return | As of June 30, 2022





PIMCO Real Return | As of June 30, 2022

| Fund Characteristics as of March 31, 2022 | | Top Holdings as of March 31, 2022 | | Fixed Income Sectors as of March 31, 2022 | |
|---|-------|--------------------------------------|--------|---|--------|
| Sharpe Ratio (3 Year) | 1.29 | EURO SCHATZ FUTURE JUNE 22 | 14.36% | GOVERNMENT | 64.33% |
| Average Duration | 7.17 | 10 YEAR TREASURY NOTE FUTURE JUNE 22 | 11.26% | MUNICIPAL | 0.00% |
| Average Coupon | 1.06% | UNITED STATES TREASURY NOTES 0.125% | 9.93% | CORPORATE | 0.53% |
| Average Effective Maturity | 6.91 | 5 YEAR TREASURY NOTE FUTURE JUNE 22 | 7.23% | SECURITIZED | 7.19% |
| R-Squared (3 Year) | 0.95 | US TREASURY BOND FUTURE JUNE 22 | 4.70% | CASH & EQUIVALENTS | 16.05% |
| Alpha (3 Year) | 0.01% | UNITED STATES TREASURY BONDS 3.625% | 4.44% | DERIVATIVE | 11.90% |
| Beta (3 Year) | 1.00 | UNITED STATES TREASURY BONDS 1.375% | 4.32% | | |
| | | EURO BOBL FUTURE JUNE 22 | 4.30% | | |
| | | UNITED STATES TREASURY NOTES 0.625% | 3.99% | | |
| | | UNITED STATES TREASURY NOTES 0.5% | 3.71% | | |

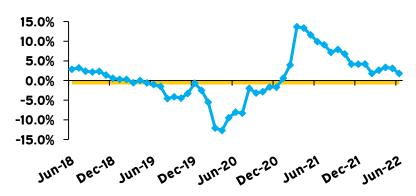
| Maturities as of March | n 31, 2022 |
|------------------------|------------|
| 1 to 3 Years | 17.09% |
| 3 to 5 Years | 13.58% |
| 5 to 7 Years | 12.25% |
| 7 to 10 Years | 19.15% |
| 10 to 15 Years | 2.26% |
| 15 to 20 Years | 3.28% |
| 20 to 30 Years | 10.87% |
| Greater than 30 Years | 2.13% |

| Top Countries as of March 31, 2022 | |
|------------------------------------|--------|
| United States | 79.03% |
| Germany | 6.21% |
| United Kingdom | 5.75% |
| Italy | 2.87% |
| Denmark | 2.46% |
| France | 1.12% |
| Ireland | 0.80% |
| Cayman Islands | 0.53% |
| Japan | 0.43% |
| Canada | 0.20% |



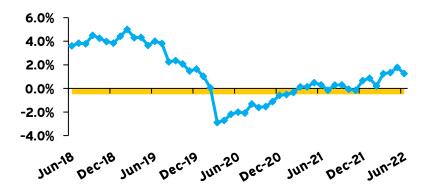
PIMCO Income I | As of June 30, 2022

Short Term - Rolling 12-Month Excess Return



Results fall in the positive range. Probationary Threshold -1.00%

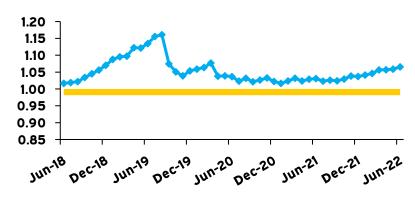
Medium Term - Rolling 36-Month Excess Return



Results fall in the positive range. Probationary Threshold -0.50%

Benchmark: Bloomberg US Aggregate TR

Long Term - VRR



Results fall in the positive range. Probationary Threshold < 0.98

| Portfolio Performance Summary | | | | | | |
|-------------------------------|------------|-------------|-------------|-------------|--------------|---------------|
| | Qtr (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | Incep (%) | Incep Date |
| PIMCO Income I | -5.2 | -8.5 | 0.3 | 2.0 | 5.6 | 11/20/2011 |
| Bloomberg US Aggregate TR | -4.7 | -10.3 | -0.9 | 0.9 | 1.8 | |

| Monitoring Status |
|-------------------|
| Positive |



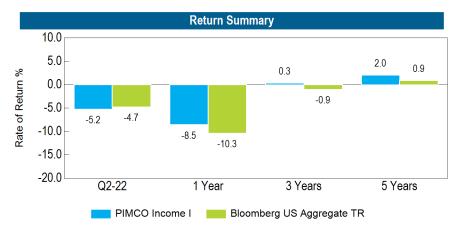
PIMCO Income I | As of June 30, 2022

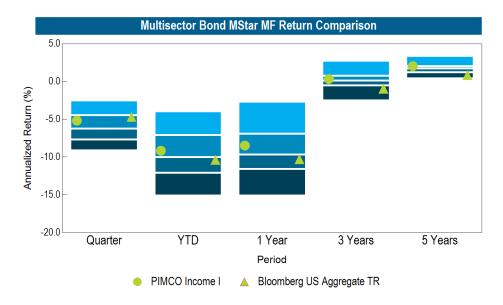
Description:

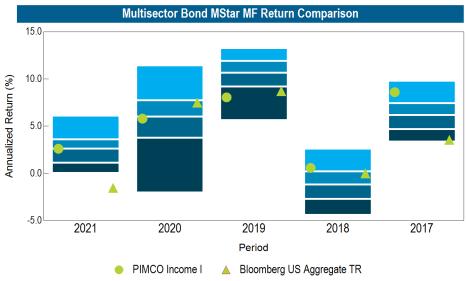
The investment seeks to maximize current income; long-term capital appreciation is a secondary objective.

The fund invests at least 65% of its total assets in a multi-sector portfolio of Fixed Income Instruments of varying maturities, which may be represented by forwards or derivatives such as options, futures contracts or swap agreements. It may invest up to 50% of its total assets in high yield securities rated below investment grade by Moody's, S&P or Fitch, or if unrated, as determined by PIMCO.

| Portfolio Fund Information as of March 31, 2022 | | | | | |
|---|-------------------|--|--|--|--|
| Ticker | PIMIX | | | | |
| Morningstar Category | Multisector Bond | | | | |
| Average Market Cap (\$mm) | 4,203.46 | | | | |
| Net Assets (\$mm) | 76,170.14 | | | | |
| % Assets in Top 10 Holdings | 31.33 | | | | |
| Total Number of Holdings | 7,615 | | | | |
| Manager Name | Daniel J. Ivascyn | | | | |
| Manager Tenure | 15 | | | | |
| Expense Ratio | 0.62% | | | | |
| Closed to New Investors | No | | | | |

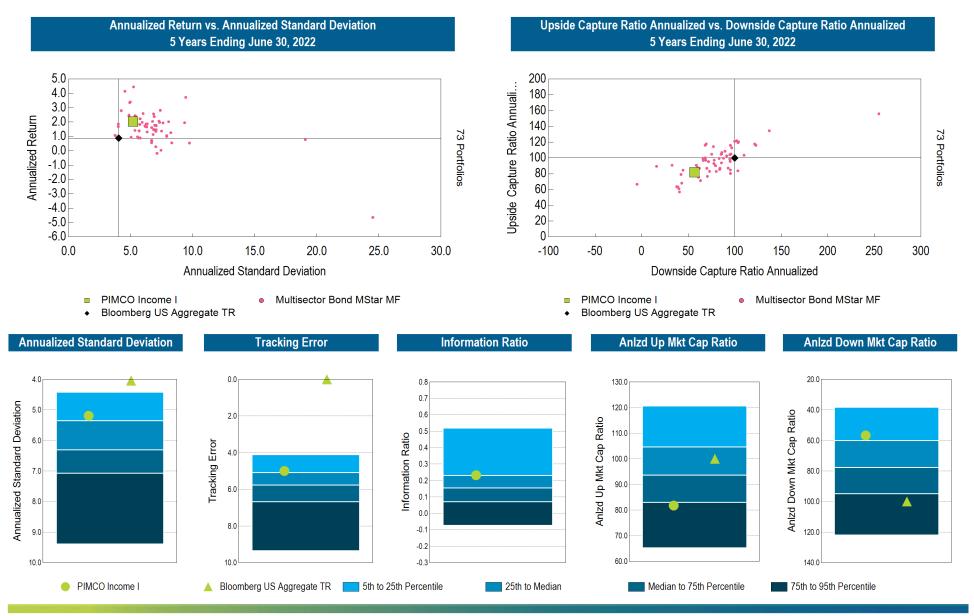








PIMCO Income I | As of June 30, 2022





PIMCO Income I | As of June 30, 2022

| Fund Characteristics as of March 31, 2022 | 2 | Top Holdings as of March 31, 2022 | | Fixed Income Sectors as of | March 31, 2022 |
|---|-------|--|-------|----------------------------|----------------|
| Sharpe Ratio (3 Year) | 0.37 | 10 YEAR TREASURY NOTE FUTURE JUNE 22 | 8.95% | GOVERNMENT | 25.98% |
| Average Duration | 2.53 | PIMCO FDS | 5.15% | MUNICIPAL | 0.05% |
| Average Coupon | | FEDERAL NATIONAL MORTGAGE ASSOCIATION | 2.68% | CORPORATE | 8.21% |
| Average Effective Maturity | 3.68 | 3% | 2.00% | SECURITIZED | 20.41% |
| R-Squared (3 Year) | 0.09 | FEDERAL NATIONAL MORTGAGE ASSOCIATION | 2.42% | CASH & EQUIVALENTS | 25.01% |
| Alpha (3 Year) | 0.19% | 4% | L1L/0 | DERIVATIVE | 20.35% |
| Beta (3 Year) | 0.46 | FEDERAL NATIONAL MORTGAGE ASSOCIATION 2.5% | 2.32% | | |
| | | FIN FUT US ULTRA 30YR CBT 06/21/22 | 2.22% | | |
| | | US TREASURY BOND FUTURE JUNE 22 | 2.13% | | |
| | | UNITED STATES TREASURY NOTES 2.375% | 1.94% | | |
| | | LONG-TERM EURO BTP FUTURE JUNE 22 | 1.93% | | |
| | | FEDERAL NATIONAL MORTGAGE ASSOCIATION 3.5% | 1.58% | | |

| | Credit Quality as of March 31, 2022 | Maturities as of March 31, 2022 | | Top Countries as of March 31, 2022 | |
|---------|-------------------------------------|---------------------------------|--------|------------------------------------|--------|
| AAA | 34.35% | 1 to 3 Years | 4.38% | United States | 77.77% |
| AA | 7.93% | 3 to 5 Years | 16.57% | United Kingdom | 4.72% |
| A | 4.17% | 5 to 7 Years | 11.72% | Mexico | 3.26% |
| BBB | 19.57% | 7 to 10 Years | 11.48% | Belize | 3.10% |
| ВВ | 19.47% | 10 to 15 Years | 5.88% | Australia | 2.32% |
| В | 4.50% | 15 to 20 Years | 2.56% | South Africa | 1.59% |
| Below B | 10.02% | 20 to 30 Years | 13.00% | Italy | 1.28% |
| Not Rat | ed 0.00% | Greater than 30 Years | 17.95% | Ireland | 0.81% |
| | | | | Turkey | 0.61% |
| | | | | Canada | 0.40% |

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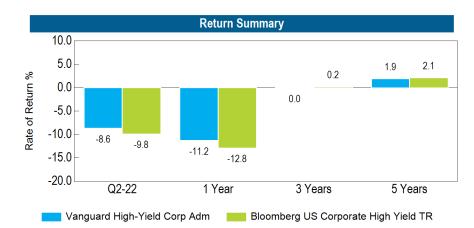
Vanguard High-Yield Corp Adm | As of June 30, 2022

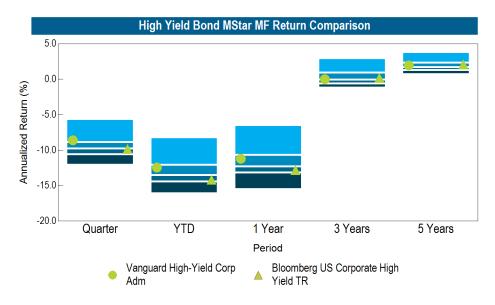
Description:

The investment seeks to provide a high level of current income.

The fund invests primarily in a diversified group of high-yielding, higher-risk corporate bonds-commonly known as "junk bonds"-with medium- and lower-range credit-quality ratings. It invests at least 80% of its assets in corporate bonds that are rated below Baa by Moody's Investors Service, Inc. (Moody's); have an equivalent rating by any other independent bond-rating agency; or, if unrated, are determined to be of comparable quality by the fund's advisor. The fund's high-yield bonds and loans mostly have short- and intermediate-term maturities.

| Portfolio Fund Information as of June 30, 2022 | |
|--|-----------------|
| Ticker | VWEAX |
| Morningstar Category | High Yield Bond |
| Average Market Cap (\$mm) | |
| Net Assets (\$mm) | 21,134.30 |
| % Assets in Top 10 Holdings | 9.24 |
| Total Number of Holdings | 636 |
| Manager Name | Michael L. Hong |
| Manager Tenure | 14 |
| Expense Ratio | 0.13% |
| Closed to New Investors | No |

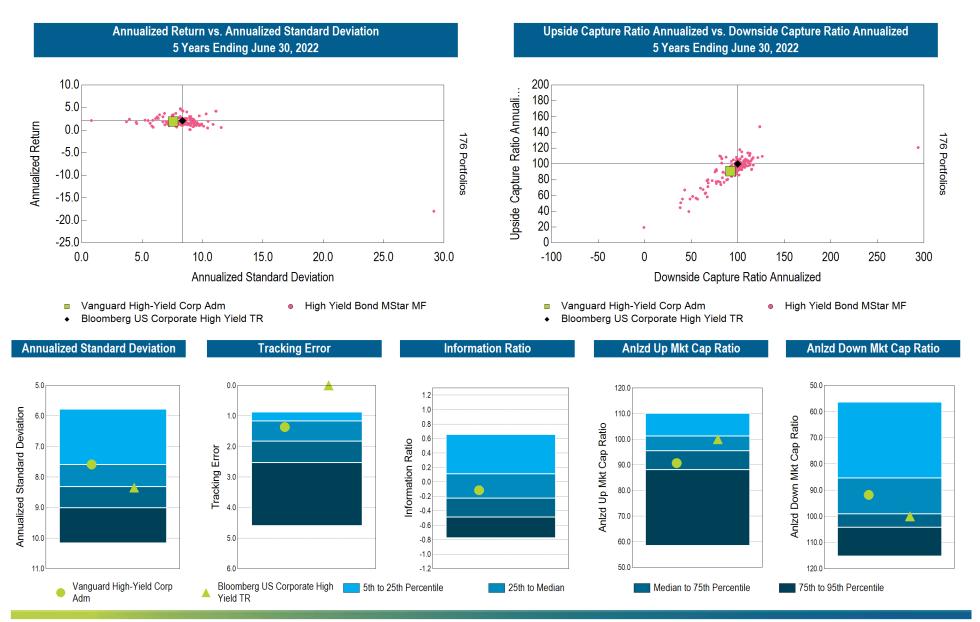








Vanguard High-Yield Corp Adm | As of June 30, 2022





Vanguard High-Yield Corp Adm | As of June 30, 2022

| Fund Characteristics as of June | e 30, 2022 | Top Holdings as of June 30, 2022 | 2 | Fixed Income Sectors as | of June 30, 2022 |
|---------------------------------|------------|--------------------------------------|-------|-------------------------|------------------|
| Sharpe Ratio (3 Year) | -0.06 | T-MOBILE US INC | 1.41% | GOVERNMENT | 3.14% |
| Average Duration | 4.27 | UNITED STATES TREASURY NOTES | 1.15% | MUNICIPAL | 0.00% |
| Average Coupon | 4.84% | IMOLA MERGER CORP. | 0.91% | CORPORATE | 95.01% |
| Average Effective Maturity | 6.10 | UNITED STATES TREASURY NOTES | 0.85% | SECURITIZED | 0.00% |
| R-Squared (3 Year) | 0.98 | UNITED STATES TREASURY NOTES | 0.84% | CASH & EQUIVALENTS | 1.85% |
| Alpha (3 Year) | -0.02% | MOZART DEBT MERGER SUBORDINATED INC. | 0.78% | DERIVATIVE | 0.00% |
| Beta (3 Year) | 0.88 | HERC HOLDINGS INC | 0.77% | | |
| | | CREDIT SUISSE GROUP AG | 0.75% | | |
| | | HCA INC. | 0.64% | | |

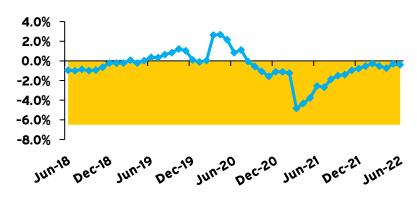
| | Credit Quality as of June 30, 2022 | Maturities as of June 30, 20 | 22 | Top Countries as of June 30, 202 | 2 |
|----------|------------------------------------|------------------------------|--------|----------------------------------|--------|
| AAA | 3.93% | 1 to 3 Years | 10.44% | United States | 84.58% |
| AA | 0.02% | 3 to 5 Years | 18.63% | Canada | 3.50% |
| A | 0.00% | 5 to 7 Years | 33.23% | Netherlands | 2.67% |
| BBB | 5.26% | 7 to 10 Years | 27.60% | United Kingdom | 1.23% |
| ВВ | 55.24% | 10 to 15 Years | 0.92% | France | 1.04% |
| В | 31.37% | 15 to 20 Years | 1.24% | Italy | 1.00% |
| Below B | 4.18% | 20 to 30 Years | 2.01% | Ireland | 0.98% |
| Not Rate | ed 0.00% | Greater than 30 Years | 0.27% | Spain | 0.86% |
| | | | | Finland | 0.85% |
| | | | | Israel | 0.75% |

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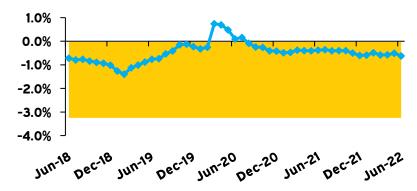
TRowe Price Floating Rate I | As of June 30, 2022

Short Term - Rolling 12-Month Excess Return



Results fall in the acceptable range. Probationary Threshold -6.50%

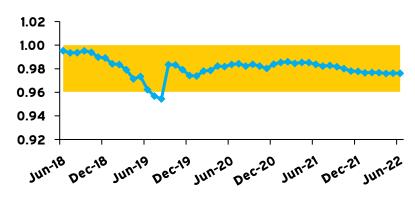
Medium Term - Rolling 36-Month Excess Return



Results fall in the acceptable range. Probationary Threshold -3.25%

Benchmark: S&P/LSTA Performing Loan TR USD

Long Term – VRR



Results fall in the acceptable range. Probationary Threshold <0.96

| Portfolio Performance Summary | | | | | | |
|---------------------------------|------------|-------------|-------------|-------------|--------------|---------------|
| | Qtr (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | Incep (%) | Incep Date |
| TRowe Price Floating Rate I | -4.7 | -3.2 | 1.6 | 2.6 | 3.7 | 11/20/2011 |
| S&P/LSTA Performing Loan TR USD | -4.6 | -2.8 | 2.3 | 3.1 | 4.2 | |

| Monitoring Status |
|-------------------|
| Acceptable |



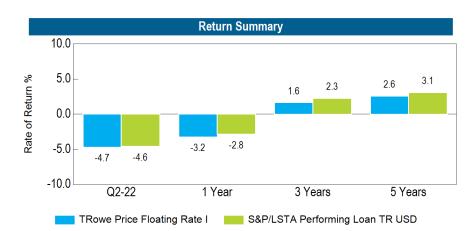
TRowe Price Floating Rate I | As of June 30, 2022

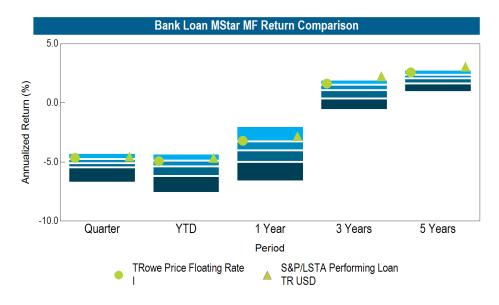
Description:

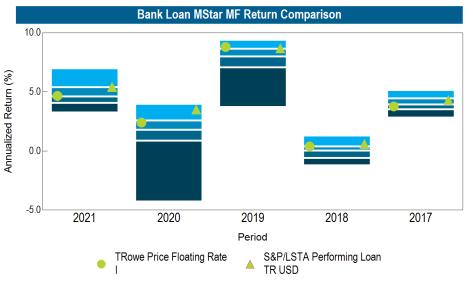
The investment seeks high current income and, secondarily, capital appreciation.

The fund invests at least 80% of its net assets (including any borrowings for investment purposes) in floating rate loans and floating rate debt securities. Floating rate loans represent amounts borrowed by companies or other entities from banks and other lenders. The fund may also invest up to 20% of its total assets in non-U.S. dollar-denominated loans and debt instruments (including instruments of issuers in emerging markets) in keeping with the fund's investment objective.

| Portfolio Fund Information as of June 30, 2022 | | | |
|--|-----------------|--|--|
| Ticker | RPIFX | | |
| Morningstar Category | Bank Loan | | |
| Average Market Cap (\$mm) | | | |
| Net Assets (\$mm) | 5,616.61 | | |
| % Assets in Top 10 Holdings | 15.62 | | |
| Total Number of Holdings | 424 | | |
| Manager Name | Paul M. Massaro | | |
| Manager Tenure | 13 | | |
| Expense Ratio | 0.58% | | |
| Closed to New Investors | No | | |

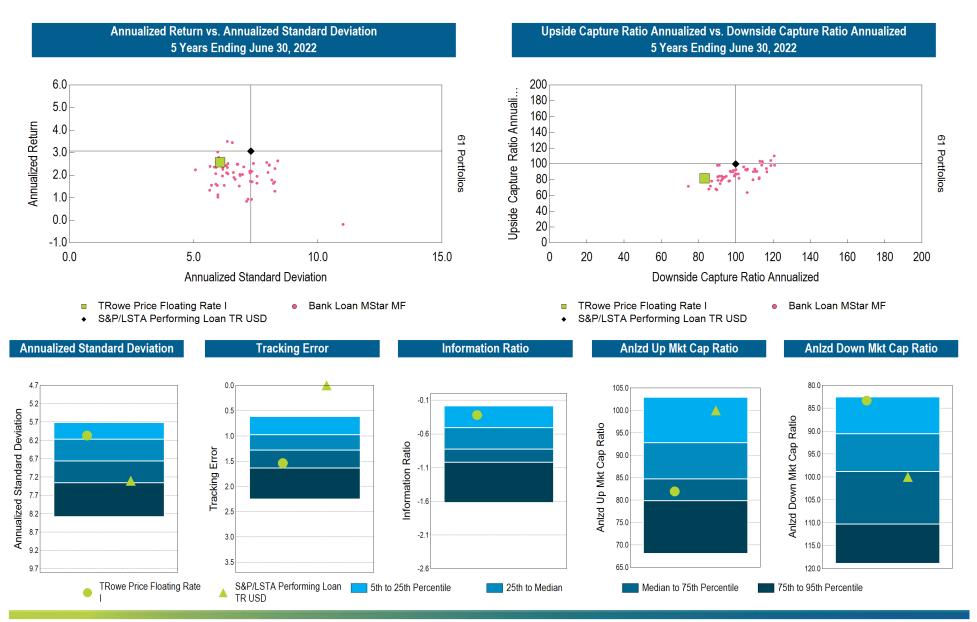








TRowe Price Floating Rate I | As of June 30, 2022





TRowe Price Floating Rate I | As of June 30, 2022

| Fund Characteristics as of Jur | ne 30, 2022 | Top Holdings as of June 30, 20 | 22 | Fixed Income Sectors a | s of June 30, 2022 |
|--------------------------------|-------------|--------------------------------|-------|------------------------|--------------------|
| Sharpe Ratio (3 Year) | 0.15 | T. ROWE PRICE GOV. RESERVE | 4.02% | GOVERNMENT | 0.07% |
| Average Duration | 0.55 | HUB INTERNATIONAL | 1.86% | MUNICIPAL | 0.00% |
| Average Coupon | 5.42% | UKG | 1.74% | CORPORATE | 94.44% |
| Average Effective Maturity | 4.87 | GAINWELL ACQUISITION | 1.25% | SECURITIZED | 0.00% |
| R-Squared (3 Year) | 0.98 | EPICOR SOFTWARE | 1.20% | CASH & EQUIVALENTS | 5.49% |
| Alpha (3 Year) | -0.02% | MEDLINE BORROWER | 1.20% | DERIVATIVE | 0.00% |
| Beta (3 Year) | 0.82 | ATHENAHEALTH | 1.18% | | |
| | | CHARTER NEXT GENERATION | 1.13% | | |
| | | PETVET CARE CENTERS | 1.02% | | |
| | | UFC HOLDINGS | 1.02% | | |

| | Credit Quality as of June 30, 2022 | Maturities as of June 30, 2022 | | Top Countries as of June 30, 2022 | |
|---------|------------------------------------|--------------------------------|--------|-----------------------------------|--------|
| AAA | 5.44% | 1 to 3 Years | 15.75% | United States | 93.65% |
| AA | 0.00% | 3 to 5 Years | 30.75% | United Kingdom | 1.60% |
| A | 0.11% | 5 to 7 Years | 50.15% | Canada | 1.10% |
| BBB | 1.79% | 7 to 10 Years | 2.99% | France | 1.00% |
| ВВ | 9.59% | 10 to 15 Years | 0.00% | Luxembourg | 0.83% |
| В | 69.09% | 15 to 20 Years | 0.00% | Germany | 0.42% |
| Below B | 11.82% | 20 to 30 Years | 0.00% | Sweden | 0.38% |
| Not Rat | ed 2.15% | Greater than 30 Years | 0.00% | Denmark | 0.27% |
| | | | | Ireland | 0.17% |
| | | | | Finland | 0.15% |

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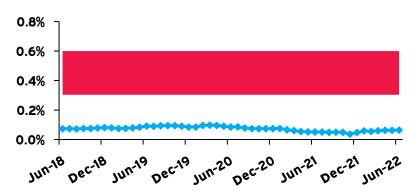


Sensitivity Analyses: Passive Funds



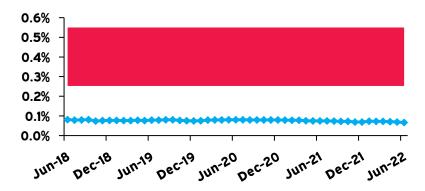
TIAA-CREF Equity Index I | As of June 30, 2022

Short Term - Rolling 12-Month Tracking Error



Results fall in the positive range. Probationary Threshold 0.30%

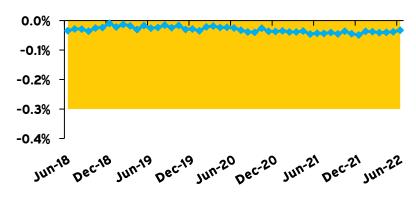
Medium Term - Rolling 36-Month Tracking Error



Results fall in the positive range. Probationary Threshold 0.25%

Benchmark: Russell 3000

Long Term - Rolling 60-Month Excess Return



Results fall in the acceptable range. Probationary Threshold -0.30%

| Portfo | olio Perforn | nance \$ | Summa | iry | | |
|--------------------------|--------------|-------------|-------------|-------------|--------------|---------------|
| | Qtr (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | Incep (%) | Incep Date |
| TIAA-CREF Equity Index I | -16.7 | -13.8 | 9.7 | 10.6 | 12.7 | 11/20/2011 |
| Russell 3000 | -16.7 | -13.9 | 9.8 | 10.6 | 12.7 | |

| Monitoring Status | |
|-------------------|--|
| Acceptable | |



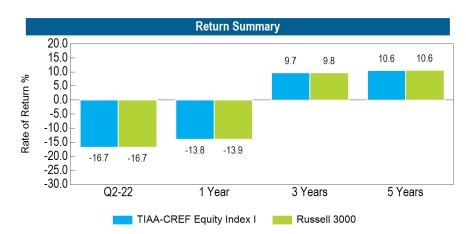
TIAA-CREF Equity Index I | As of June 30, 2022

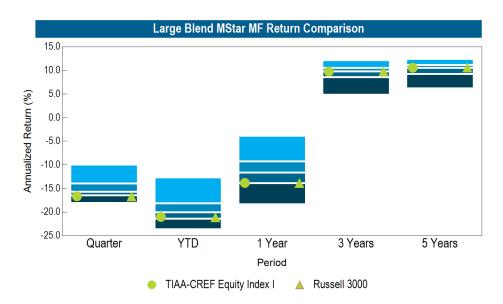
Description:

The investment seeks a favorable long-term total return, mainly through capital appreciation, by investing primarily in a portfolio of equity securities selected to track the overall U.S. equity markets based on a market index.

Under normal circumstances, the fund invests at least 80% of its assets in equity securities of its benchmark index, the Russell 3000® Index. It buys most, but not necessarily all, of the stocks in its benchmark index, and the advisor will attempt to closely match the overall investment characteristics of its benchmark index.

| Portfolio Fund Information as of May 31, 2022 | | | |
|---|----------------------------|--|--|
| Ticker | TIEIX | | |
| Morningstar Category | Large Blend | | |
| Average Market Cap (\$mm) | 111,710.20 | | |
| Net Assets (\$mm) | 11,960.74 | | |
| % Assets in Top 10 Holdings | 22.56 | | |
| Total Number of Holdings | 2,938 | | |
| Manager Name | Philip James(Jim) Campagna | | |
| Manager Tenure | 17 | | |
| Expense Ratio | 0.05% | | |
| Closed to New Investors | No | | |

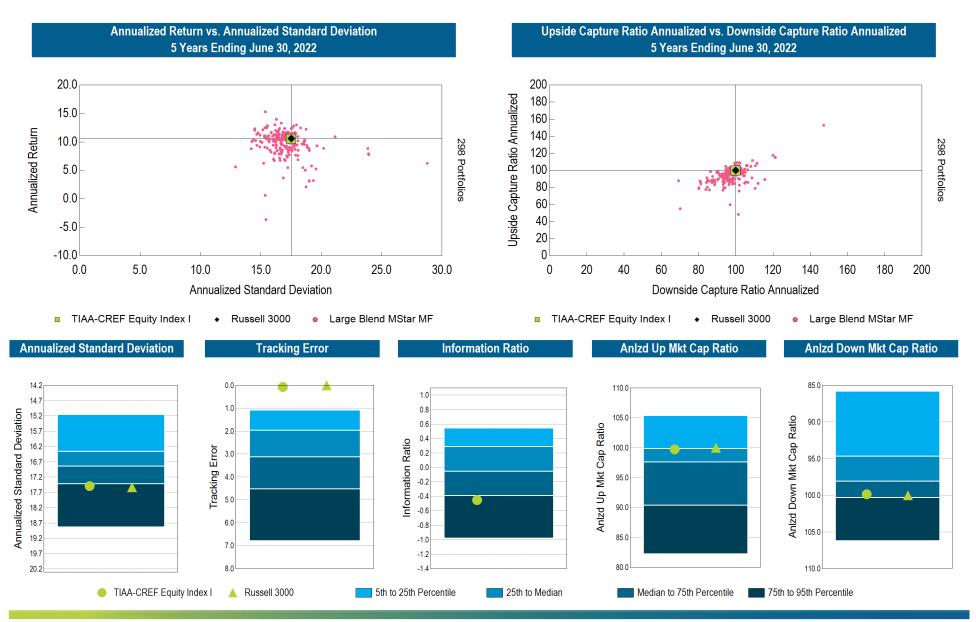








TIAA-CREF Equity Index I | As of June 30, 2022





TIAA-CREF Equity Index I | As of June 30, 2022

| Fund Characteristics as of May 31, 2022 | |
|---|------------|
| Sharpe Ratio (3 Year) | 0.80 |
| Average Market Cap (\$mm) | 111,710.20 |
| Price/Earnings | 17.34 |
| Price/Book | 3.00 |
| Price/Sales | 2.01 |
| Price/Cash Flow | 9.74 |
| Dividend Yield | 1.59 |
| Number of Equity Holdings | 2,922 |
| R-Squared (3 Year) | 1.00 |
| Alpha (3 Year) | 0.00% |

| Sector Allocation as of May 31, 2022 | |
|--------------------------------------|--------|
| BASIC MATERIALS | 2.34% |
| COMMUNICATION SERVICES | 8.12% |
| CONSUMER CYCLICAL | 10.69% |
| CONSUMER DEFENSIVE | 6.44% |
| ENERGY | 4.86% |
| FINANCIAL SERVICES | 13.73% |
| HEALTHCARE | 14.16% |
| INDUSTRIALS | 9.03% |
| REAL ESTATE | 3.79% |
| TECHNOLOGY | 23.89% |
| UTILITIES | 2.94% |

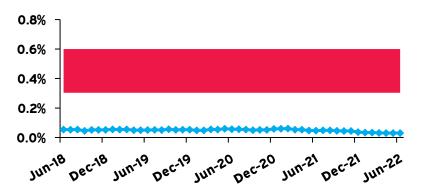
| Top Holdings as of May 31, 2022 | | | |
|---------------------------------|-------|--|--|
| APPLE INC | 5.57% | | |
| MICROSOFT CORP | 4.97% | | |
| AMAZON.COM INC | 2.53% | | |
| ALPHABET INC CLASS A | | | |
| ALPHABET INC CLASS C | 1.53% | | |
| TESLA INC | 1.53% | | |
| BERKSHIRE HATHAWAY INC CLASS B | 1.40% | | |
| JOHNSON & JOHNSON | 1.15% | | |
| UNITEDHEALTH GROUP INC | | | |
| META PLATFORMS INC CLASS A | 1.08% | | |

| | Top Countries as of May 31, 2022 | |
|-----------------------|----------------------------------|--------|
| United States | | 99.32% |
| Switzerland | | 0.31% |
| Netherlands | | 0.12% |
| United Kingdom | | 0.09% |
| China | | 0.05% |
| Puerto Rico | | 0.03% |
| Brazil | | 0.02% |
| India | | 0.02% |
| Canada | | 0.01% |
| Israel | | 0.01% |



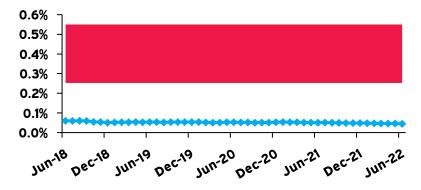
TIAA-CREF S&P 500 Index I | As of June 30, 2022

Short Term - Rolling 12-Month Tracking Error



Results fall in the positive range. Probationary Threshold 0.30%

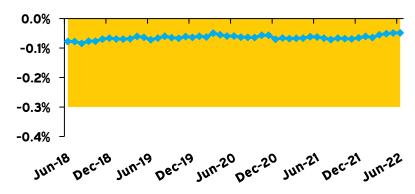
Medium Term - Rolling 36-Month Tracking Error



Results fall in the positive range. Probationary Threshold 0.25%

Benchmark: S&P 500

Long Term – Rolling 60-Month Excess Return



Results fall in the acceptable range. Probationary Threshold -0.30%

| Portfolio Performance Summary | | | | | | |
|-------------------------------|------------|-------------|-------------|-------------|--------------|---------------|
| | Qtr (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | Incep (%) | Incep Date |
| TIAA-CREF S&P 500 Index I | -16.1 | -10.6 | 10.6 | 11.3 | 13.1 | 11/20/2011 |
| S&P 500 | -16.1 | -10.6 | 10.6 | 11.3 | 13.1 | |

| Monitoring Status |
|-------------------|
| Acceptable |

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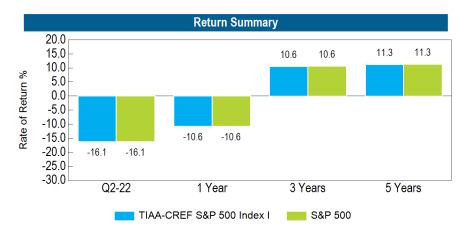
TIAA-CREF S&P 500 Index I | As of June 30, 2022

Description:

The investment seeks a favorable long-term total return, mainly through capital appreciation, by investing primarily in a portfolio of equity securities of large domestic companies selected to track U.S. equity markets based on a market index.

The fund invests at least 80% of its assets in securities of its benchmark index, the S&P 500® Index. It buys most, but not necessarily all, of the stocks in its benchmark index, and the advisor will attempt to closely match the overall investment characteristics of the fund's benchmark index.

| Portfolio Fund Information as of May 31, 2022 | | | |
|---|----------------------------|--|--|
| Ticker | TISPX | | |
| Morningstar Category | Large Blend | | |
| Average Market Cap (\$mm) | 185,609.76 | | |
| Net Assets (\$mm) | 5,089.57 | | |
| % Assets in Top 10 Holdings | 26.39 | | |
| Total Number of Holdings | 509 | | |
| Manager Name | Philip James(Jim) Campagna | | |
| Manager Tenure | 17 | | |
| Expense Ratio | 0.05% | | |
| Closed to New Investors | | | |

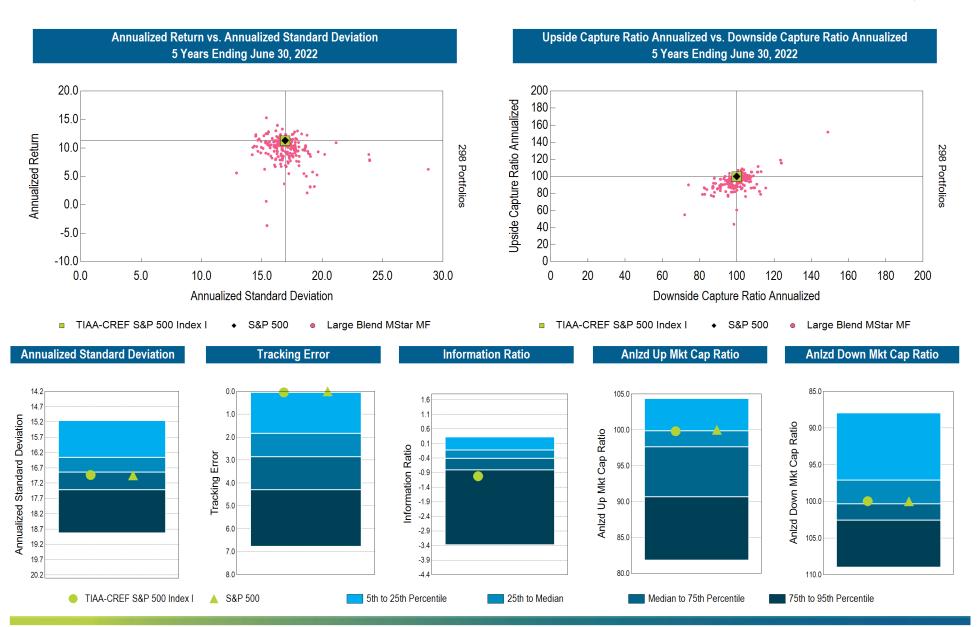








TIAA-CREF S&P 500 Index I | As of June 30, 2022





TIAA-CREF S&P 500 Index I | As of June 30, 2022

| Fund Characteristics as of May 31, 2022 | | | |
|---|------------|--|--|
| Sharpe Ratio (3 Year) | 0.87 | | |
| Average Market Cap (\$mm) | 185,609.76 | | |
| Price/Earnings | 18.01 | | |
| Price/Book | 3.26 | | |
| Price/Sales | 2.25 | | |
| Price/Cash Flow | 10.63 | | |
| Dividend Yield | 1.63 | | |
| Number of Equity Holdings | 504 | | |
| R-Squared (3 Year) | 1.00 | | |
| Alpha (3 Year) | 0.00% | | |

| Sector Allocation as of May 31, 2022 | | | |
|--------------------------------------|--------|--|--|
| BASIC MATERIALS | 2.47% | | |
| COMMUNICATION SERVICES | 8.80% | | |
| CONSUMER CYCLICAL | 10.68% | | |
| CONSUMER DEFENSIVE | 6.90% | | |
| ENERGY | 4.80% | | |
| FINANCIAL SERVICES | 13.42% | | |
| HEALTHCARE | 14.46% | | |
| INDUSTRIALS | 8.27% | | |
| REAL ESTATE | 2.77% | | |
| TECHNOLOGY | 24.45% | | |
| UTILITIES | 2.98% | | |

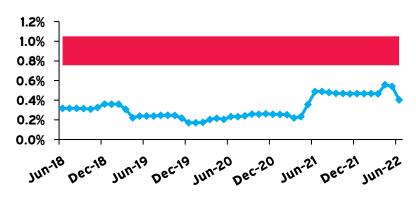
| Top Holdings as of May 31, 2022 | | | |
|---------------------------------|-------|--|--|
| APPLE INC | 6.52% | | |
| MICROSOFT CORP | 5.76% | | |
| AMAZON.COM INC | 2.97% | | |
| ALPHABET INC CLASS A | 1.93% | | |
| ALPHABET INC CLASS C | 1.79% | | |
| TESLA INC | 1.79% | | |
| BERKSHIRE HATHAWAY INC CLASS B | 1.63% | | |
| JOHNSON & JOHNSON | 1.34% | | |
| NVIDIA CORP | 1.32% | | |
| UNITEDHEALTH GROUP INC | 1.32% | | |

| Top Countries as of May 31, 2022 | | | |
|----------------------------------|--|--------|--|
| United States | | 98.90% | |
| United Kingdom | | 0.55% | |
| Switzerland | | 0.36% | |
| Netherlands | | 0.14% | |
| Singapore | | 0.05% | |



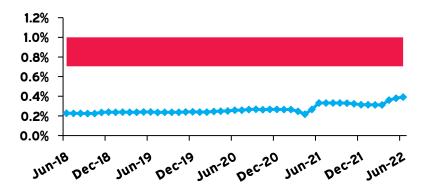
TIAA-CREF International Equity Index | As of June 30, 2022

Short Term - Rolling 12-Month Tracking Error



Results fall in the positive range. Probationary Threshold 0.75%

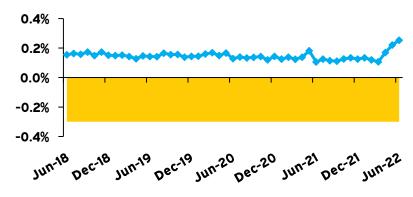
Medium Term - Rolling 36-Month Tracking Error



Results fall in the positive range. Probationary Threshold 0.70%

Benchmark: MSCI EAFE

Long Term - Rolling 60-Month Excess Return



Results fall in the positive range. Probationary Threshold -0.30%

| Portfolio Performance Summary | | | | | | |
|--------------------------------------|------------|-------------|-------------|-------------|--------------|---------------|
| | Qtr (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | Incep (%) | Incep Date |
| TIAA-CREF International Equity Index | -13.8 | -17.1 | 1.4 | 2.5 | 5.0 | 11/20/2011 |
| MSCI EAFE | -14.5 | -17.8 | 1.1 | 2.2 | 4.8 | |

Monitoring Status

Positive



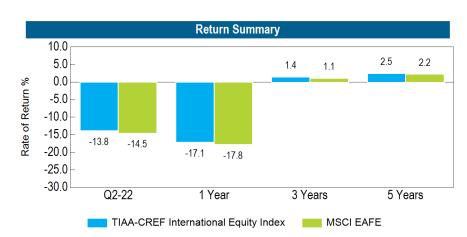
TIAA-CREF International Equity Index | As of June 30, 2022

Description:

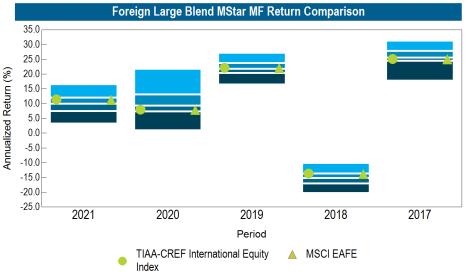
The investment seeks a favorable long-term total return, mainly through capital appreciation, by investing primarily in a portfolio of foreign equity investments based on a market index.

Under normal circumstances, the fund invests at least 80% of its assets in securities of its benchmark index, the MSCI EAFE Index. It buys most, but not necessarily all, of the stocks included in its benchmark index, and the advisor will attempt to closely match the overall investment characteristics of the fund's benchmark index.

| Portfolio Fund Information as of May 31, 2022 | | | |
|---|----------------------------|--|--|
| Ticker | TCIEX | | |
| Morningstar Category | Foreign Large Blend | | |
| Average Market Cap (\$mm) | 44,690.55 | | |
| Net Assets (\$mm) | 9,056.99 | | |
| % Assets in Top 10 Holdings | 13.87 | | |
| Total Number of Holdings | 827 | | |
| Manager Name | Philip James(Jim) Campagna | | |
| Manager Tenure | 17 | | |
| Expense Ratio | 0.05% | | |
| Closed to New Investors | No | | |

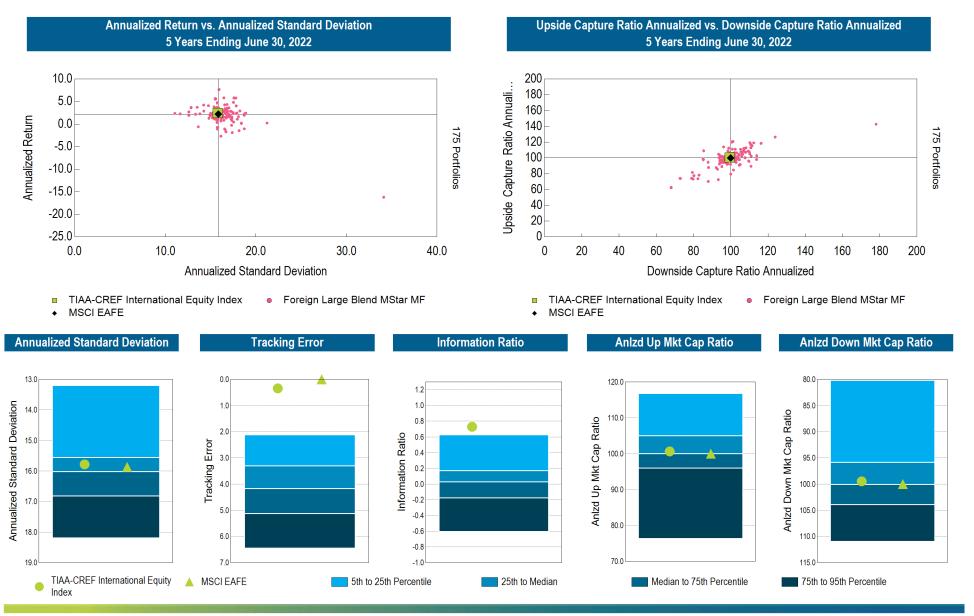








TIAA-CREF International Equity Index | As of June 30, 2022





TIAA-CREF International Equity Index | As of June 30, 2022

| Fund Characteristics as of May 31, 2022 | | | |
|---|-----------|--|--|
| Sharpe Ratio (3 Year) | 0.36 | | |
| Average Market Cap (\$mm) | 44,690.55 | | |
| Price/Earnings | 12.61 | | |
| Price/Book | 1.57 | | |
| Price/Sales | 1.25 | | |
| Price/Cash Flow | 6.84 | | |
| Dividend Yield | 3.15 | | |
| Number of Equity Holdings | 804 | | |
| R-Squared (3 Year) | 1.00 | | |
| Alpha (3 Year) | 0.02% | | |

| Sector Allocation as of May 31, 2022 | | | |
|--------------------------------------|--------|--|--|
| BASIC MATERIALS | 8.18% | | |
| COMMUNICATION SERVICES | 5.30% | | |
| CONSUMER CYCLICAL | 10.35% | | |
| CONSUMER DEFENSIVE | 10.31% | | |
| ENERGY | 4.98% | | |
| FINANCIAL SERVICES | 17.66% | | |
| HEALTHCARE | 13.50% | | |
| INDUSTRIALS | 14.91% | | |
| REAL ESTATE | 2.93% | | |
| TECHNOLOGY | 8.51% | | |
| UTILITIES | 3.38% | | |

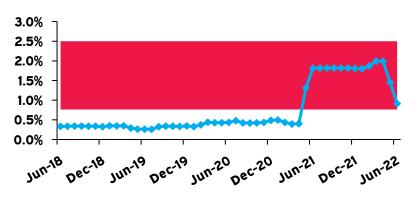
| Top Holdings as of May 31, 2022 | | | |
|-------------------------------------|-------|--|--|
| NESTLE SA | 2.22% | | |
| ROCHE HOLDING AG | 1.55% | | |
| ASML HOLDING NV | 1.51% | | |
| SHELL PLC | 1.45% | | |
| ASTRAZENECA PLC | 1.32% | | |
| NOVARTIS AG | 1.29% | | |
| NOVO NORDISK A/S CLASS B | 1.21% | | |
| LVMH MOET HENNESSY LOUIS VUITTON SE | 1.16% | | |
| TOYOTA MOTOR CORP | 1.14% | | |
| BHP GROUP LTD | 1.03% | | |

| | Top Countries as of May 31, 2022 | |
|-----------------------|----------------------------------|--------|
| Japan | | 21.88% |
| United Kingdom | | 15.20% |
| Switzerland | | 10.69% |
| France | | 10.62% |
| Germany | | 8.12% |
| Australia | | 7.96% |
| Netherlands | | 4.79% |
| Sweden | | 3.63% |
| Hong Kong | | 2.69% |
| Denmark | | 2.65% |



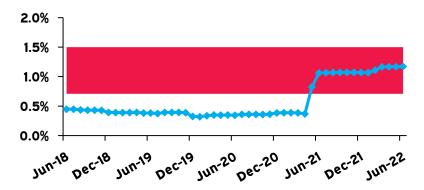
TIAA-CREF Emerging Markets Equity Index | As of June 30, 2022

Short Term - Rolling 12-Month Tracking Error



Results fall in the caution range. Probationary Threshold 0.75%

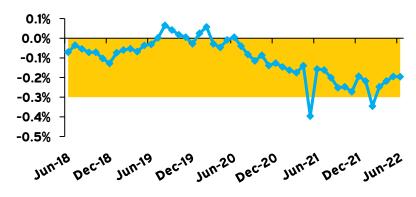
Medium Term - Rolling 36-Month Tracking Error



Results fall in the caution range. Probationary Threshold 0.70%

Benchmark: MSCI Emerging Markets

Long Term - Rolling 60-Month Excess Return



Results fall in the acceptable range. Probationary Threshold -0.30%

| Portfolio Performance Summary | | | | | | |
|---|------------|-------------|-------------|-------------|--------------|---------------|
| | Qtr (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | Incep (%) | Incep Date |
| TIAA-CREF Emerging Markets Equity Index | -11.2 | -25.3 | 0.4 | 2.0 | 1.0 | 1/31/2011 |
| MSCI Emerging Markets | -11.4 | -25.3 | 0.6 | 2.2 | 1.2 | |

Monitoring Status

Caution

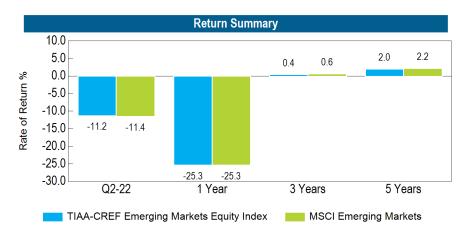


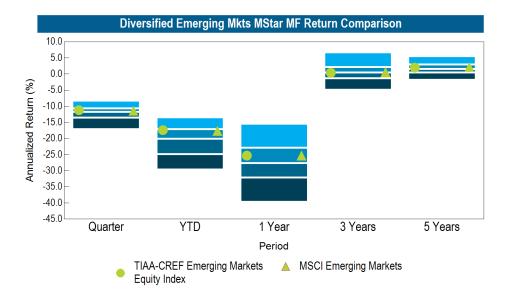
TIAA-CREF Emerging Markets Equity Index | As of June 30, 2022

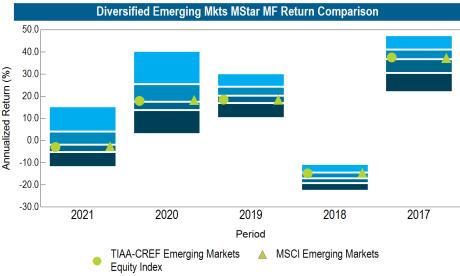
Description:

The investment seeks a favorable long-term total return, mainly through capital appreciation, by investing primarily in a portfolio of emerging market equity investments based on a market index. Under normal circumstances, the fund invests at least 80% of its assets in equity securities that comprise its benchmark index, the MSCI Emerging Markets® Index ("MSCI EM Index"), or in instruments with economic characteristics similar to all or a portion of the MSCI EM Index. It buys most, but not necessarily all, of the stocks in its benchmark index, and the advisor will attempt to closely match the overall investment attributes of the fund's benchmark index.

| Portfolio Fund Information as of May 31, 2022 | | |
|---|----------------------------|--|
| Ticker | TEQLX | |
| Morningstar Category | Diversified Emerging Mkts | |
| Average Market Cap (\$mm) | 38,413.87 | |
| Net Assets (\$mm) | 1,163.31 | |
| % Assets in Top 10 Holdings | 23.67 | |
| Total Number of Holdings | 1,412 | |
| Manager Name | Philip James(Jim) Campagna | |
| Manager Tenure | 12 | |
| Expense Ratio | 0.18% | |
| Closed to New Investors | No | |

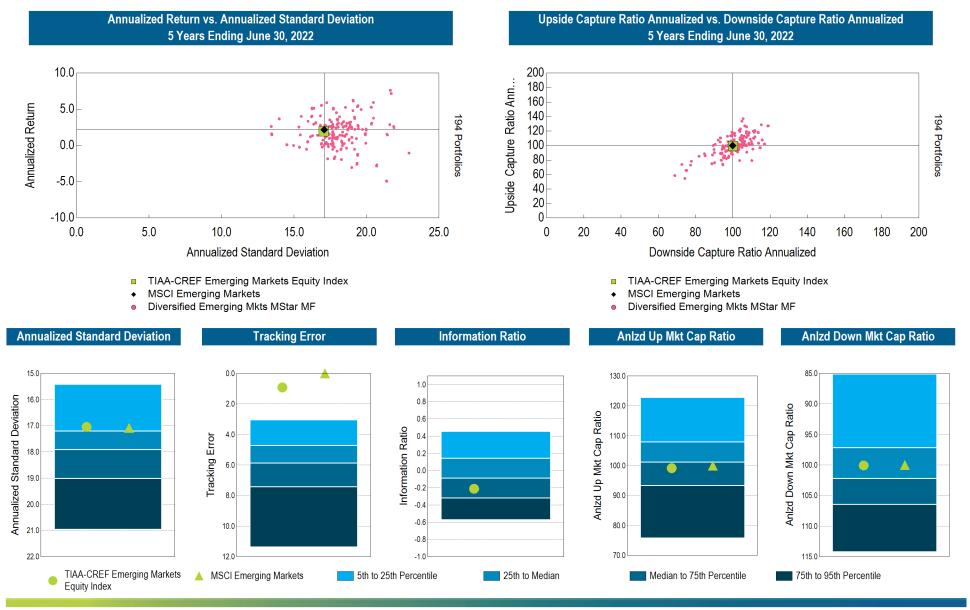








TIAA-CREF Emerging Markets Equity Index | As of June 30, 2022





TIAA-CREF Emerging Markets Equity Index | As of June 30, 2022

| Fund Characteristics as of May 31, 2022 | |
|---|-----------|
| Sharpe Ratio (3 Year) | 0.23 |
| Average Market Cap (\$mm) | 38,413.87 |
| Price/Earnings | 11.21 |
| Price/Book | 1.53 |
| Price/Sales | 1.25 |
| Price/Cash Flow | 5.65 |
| Dividend Yield | 3.20 |
| Number of Equity Holdings | 1,390 |
| R-Squared (3 Year) | 1.00 |
| Alpha (3 Year) | -0.02% |

| Sector Allocation as of May 31, 20 |)22 |
|------------------------------------|--------|
| BASIC MATERIALS | 9.15% |
| COMMUNICATION SERVICES | 10.74% |
| CONSUMER CYCLICAL | 12.36% |
| CONSUMER DEFENSIVE | 5.69% |
| ENERGY | 5.02% |
| FINANCIAL SERVICES | 21.89% |
| HEALTHCARE | 3.76% |
| INDUSTRIALS | 5.71% |
| REAL ESTATE | 2.03% |
| TECHNOLOGY | 20.91% |
| UTILITIES | 2.75% |

| Top Holdings as of May 31, 2022 | |
|---|-------|
| TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD | 6.43% |
| TENCENT HOLDINGS LTD | 3.94% |
| SAMSUNG ELECTRONICS CO LTD | 3.58% |
| ALIBABA GROUP HOLDING LTD ORDINARY SHARES | 2.52% |
| MSCI EMGMKT JUN22 IFUS 20220617 | 1.58% |
| RELIANCE INDUSTRIES LTD | 1.42% |
| MEITUAN CLASS B | 1.33% |
| CHINA CONSTRUCTION BANK CORP CLASS H | 1.00% |
| VALE SA | 1.00% |
| INFOSYS LTD | 0.90% |

| | Top Countries as of May 31, 2022 | |
|--------------|----------------------------------|--------|
| China | | 30.28% |
| Taiwan | | 15.70% |
| India | | 12.73% |
| South Korea | | 12.69% |
| Brazil | | 5.55% |
| Saudi Arabia | | 4.51% |
| South Africa | | 3.67% |
| Mexico | | 2.19% |
| Indonesia | | 1.89% |
| Thailand | | 1.88% |

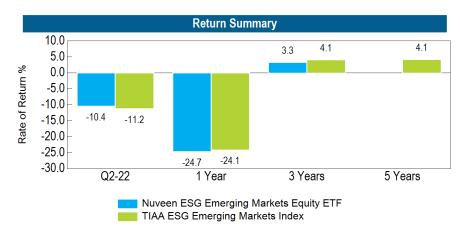


Nuveen ESG Emerging Markets Equity ETF | As of June 30, 2022

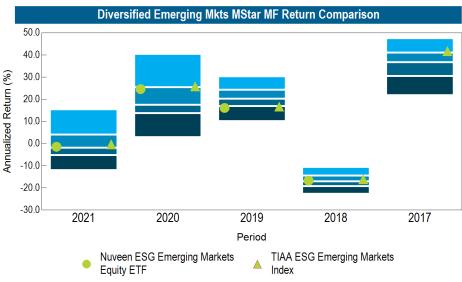
Description:

The investment seeks to track the investment results, before fees and expenses, of the TIAA ESG Emerging Markets Equity Index (the "index"). In seeking to track the investment results of the index, the advisor attempts to replicate the index by investing all, or substantially all, of its assets in the securities represented in the index in approximately the same proportions as the index. The index identifies equity securities from the base index that satisfy certain ESG criteria, based on ESG performance data collected by MSCI ESG Research, Inc.

| Account Information | | | | |
|---------------------|--|--|--|--|
| Account Name | Nuveen ESG Emerging Markets Equity ETF | | | |
| Account Structure | Mutual Fund | | | |
| Investment Style | Passive | | | |
| Inception Date | 8/01/17 | | | |
| Account Type | | | | |
| Benchmark | TIAA ESG Emerging Markets Index | | | |
| Universe | Diversified Emerging Mkts MStar MF | | | |

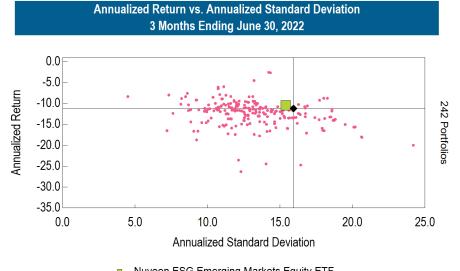




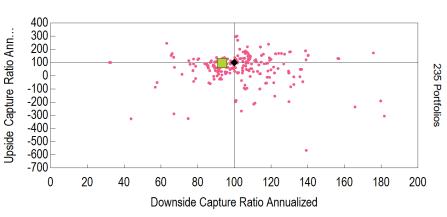




Nuveen ESG Emerging Markets Equity ETF | As of June 30, 2022

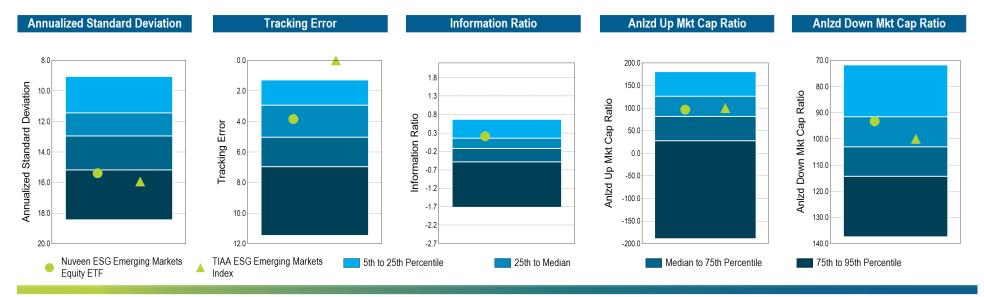






- Nuveen ESG Emerging Markets Equity ETF
- TIAA ESG Emerging Markets Index
- Diversified Emerging Mkts MStar MF

- Nuveen ESG Emerging Markets Equity ETF
- TIAA ESG Emerging Markets Index
- Diversified Emerging Mkts MStar MF





Nuveen ESG Emerging Markets Equity ETF | As of June 30, 2022

| Characte | ristics |
|---------------------------------|-----------|
| | Portfolio |
| Number of Holdings | 208 |
| Weighted Avg. Market Cap. (\$B) | 93.25 |
| Median Market Cap. (\$B) | 9.04 |
| Price To Earnings | 11.74 |
| Price To Book | 2.78 |
| Price To Sales | 1.23 |
| Return on Equity (%) | 15.95 |
| Yield (%) | 3.25 |
| Beta | |
| R-Squared | |

| Holdings By Sector | |
|------------------------|---------------|
| GICS Sector | % of Total |
| Energy | 3.65% |
| Materials | 9.65% |
| Industrials | 5.30% |
| Consumer Discretionary | 15.07% |
| Consumer Staples | 6.92% |
| Health Care | 3.28% |
| Financials | 20.42% |
| Information Technology | 18.17% |
| Communication Services | 11.17% |
| Utilities | 4.23% |

| Top Holdings | |
|---|-------|
| TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD | 7.26% |
| TENCENT HOLDINGS LTD | 5.32% |
| ALIBABA GROUP HOLDING LTD | 4.38% |
| MEITUAN DIANPING USD0.00001 A B CLASS ISIN KYG596691041 | 2.38% |
| CHINA CONSTRUCTION BANK CORP | 2.17% |
| SUNNY OPTICAL TECHNOLOGY GROUP CO LTD | 1.61% |
| ENN ENERGY HOLDINGS LTD | 1.59% |
| TATA CONSULTANCY SERVICES LTD | 1.51% |
| BYD 'H' | 1.42% |
| FIRST ABU DHABI BANK P.J.S.C | 1.42% |

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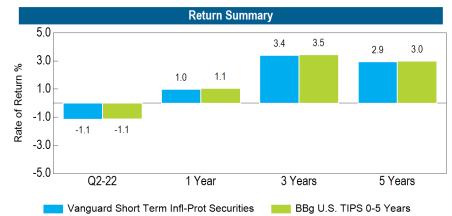
Vanguard Short Term Infl-Prot Securities | As of June 30, 2022

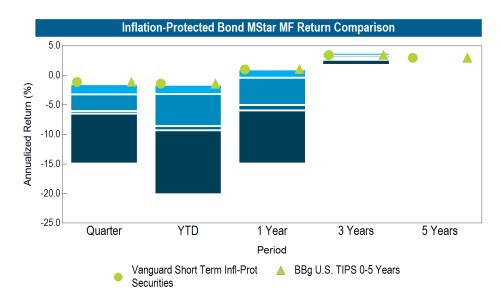
Description:

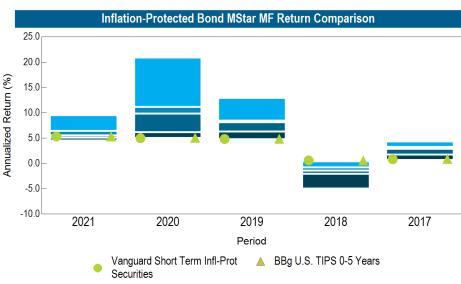
The investment seeks to track the performance of the Bloomberg U.S. Treasury Inflation-Protected Securities (TIPS) 0-5 Year Index.

The index is a market-capitalization-weighted index that includes all inflation-protected public obligations issued by the U.S. Treasury with remaining maturities of less than 5 years. The manager attempts to replicate the target index by investing all, or substantially all, of its assets in the securities that make up the index, holding each security in approximately the same proportion as its weighting in the index.

| Portfolio Fund Information as of May 31, 2022 | | | | |
|---|--------------------------|--|--|--|
| Ticker | VTSPX | | | |
| Morningstar Category | Inflation-Protected Bond | | | |
| Average Market Cap (\$mm) | | | | |
| Net Assets (\$mm) | 17,923.07 | | | |
| % Assets in Top 10 Holdings | 57.95 | | | |
| Total Number of Holdings | 23 | | | |
| Manager Name | Joshua C. Barrickman | | | |
| Manager Tenure | 10 | | | |
| Expense Ratio | 0.04% | | | |
| Closed to New Investors | No | | | |

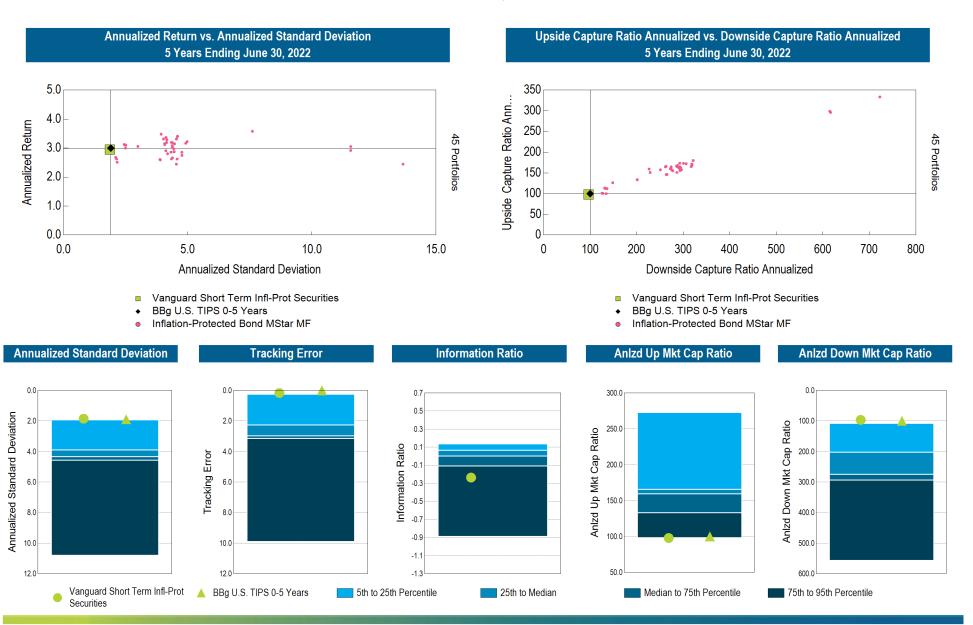








Vanguard Short Term Infl-Prot Securities | As of June 30, 2022





Vanguard Short Term Infl-Prot Securities | As of June 30, 2022

| Fund Characteristics as of May 31, 2022 | | Top Holdings as of May 31, 2022 | | Fixed Income Sectors as of | May 31, 2022 |
|---|-------|---------------------------------|-------|----------------------------|--------------|
| Sharpe Ratio (3 Year) | 1.83 | UNITED STATES TREASURY NOTES | 6.81% | GOVERNMENT | 94.41% |
| Average Duration | 2.53 | UNITED STATES TREASURY NOTES | 6.57% | MUNICIPAL | 0.00% |
| Average Coupon | | UNITED STATES TREASURY NOTES | 6.28% | CORPORATE | 0.00% |
| Average Effective Maturity | 2.60 | UNITED STATES TREASURY NOTES | 5.82% | SECURITIZED | 0.00% |
| R-Squared (3 Year) | 0.99 | UNITED STATES TREASURY NOTES | 5.71% | CASH & EQUIVALENTS | 5.59% |
| Alpha (3 Year) | 0.01% | UNITED STATES TREASURY NOTES | 5.47% | DERIVATIVE | 0.00% |
| Beta (3 Year) | 0.96 | UNITED STATES TREASURY NOTES | 5.34% | | |
| | | UNITED STATES TREASURY NOTES | 5.18% | | |
| | | UNITED STATES TREASURY NOTES | 5.06% | | |

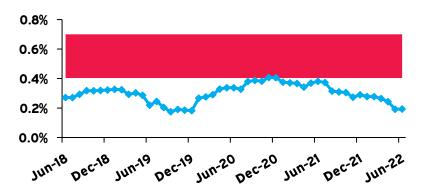
| | Credit Quality as of June 30, 2022 | Maturities as of May 31, 2022 | | Top Countries as of May 31, 2022 | |
|----------|------------------------------------|-------------------------------|--------|----------------------------------|---------|
| AAA | 99.99% | 1 to 3 Years | 42.55% | United States | 100.00% |
| AA | 0.00% | 3 to 5 Years | 44.08% | | |
| A | 0.00% | 5 to 7 Years | 0.00% | | |
| BBB | 0.00% | 7 to 10 Years | 0.00% | | |
| ВВ | 0.00% | 10 to 15 Years | 0.00% | | |
| В | 0.00% | 15 to 20 Years | 0.00% | | |
| Below B | 0.00% | 20 to 30 Years | 0.00% | | |
| Not Rate | d 0.01% | Greater than 30 Years | 0.00% | | |

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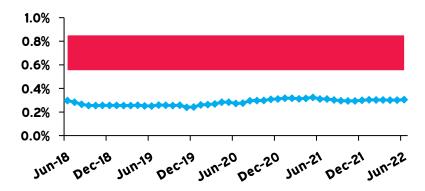
TIAA-CREF Bond Index I | As of June 30, 2022

Short Term - Rolling 12-Month Tracking Error



Results fall in the positive range. Probationary Threshold 0.40%

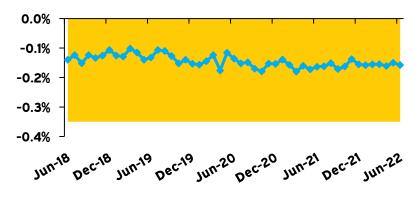
Medium Term - Rolling 36-Month Tracking Error



Results fall in the positive range. Probationary Threshold 0.55%

Benchmark: Bloomberg US Aggregate TR

Long Term - Rolling 60-Month Excess Return



Results fall in the acceptable range. Probationary Threshold -0.35%

| Portfolio Performance Summary | | | | | | |
|-------------------------------|------------|-------------|-------------|-------------|--------------|---------------|
| | Qtr (%) | 1 YR (%) | 3 YR (%) | 5 YR (%) | Incep (%) | Incep Date |
| TIAA-CREF Bond Index I | -4.7 | -10.5 | -1.1 | 0.7 | 1.6 | 11/20/2011 |
| Bloomberg US Aggregate TR | -4.7 | -10.3 | -0.9 | 0.9 | 1.8 | |

| Monitoring Status |
|-------------------|
| Acceptable |

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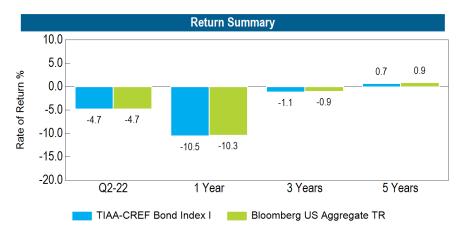
TIAA-CREF Bond Index I | As of June 30, 2022

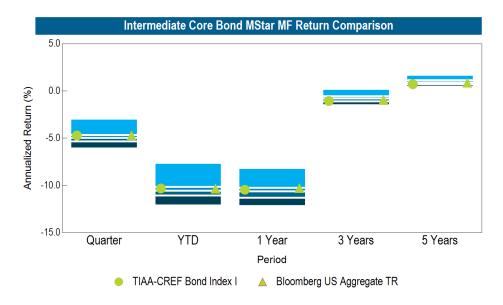
Description:

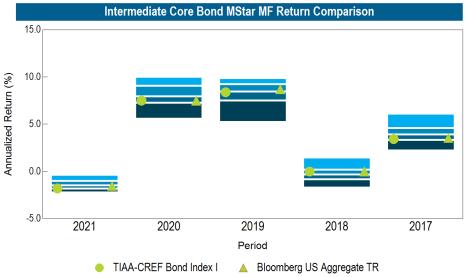
The investment seeks total return that corresponds with the total return of the Bloomberg Barclays U.S. Aggregate Bond Index.

The fund invests at least 80% of its assets in bonds within its benchmark and portfolio tracking index, the Bloomberg U.S. Aggregate Bond Index. The securities purchased by the fund will mainly be high-quality instruments rated in the top four credit categories by Moody's or S&P or deemed to be of the same quality by the advisors using its own credit quality analysis.

| Portfolio Fund Information as of June 30, 2022 | | |
|--|------------------------|--|
| Ticker | TBIIX | |
| Morningstar Category | Intermediate Core Bond | |
| Average Market Cap (\$mm) | | |
| Net Assets (\$mm) | 9,195.10 | |
| % Assets in Top 10 Holdings | 9.63 | |
| Total Number of Holdings | 8,145 | |
| Manager Name | Lijun (Kevin) Chen | |
| Manager Tenure | 13 | |
| Expense Ratio | 0.08% | |
| Closed to New Investors | No | |

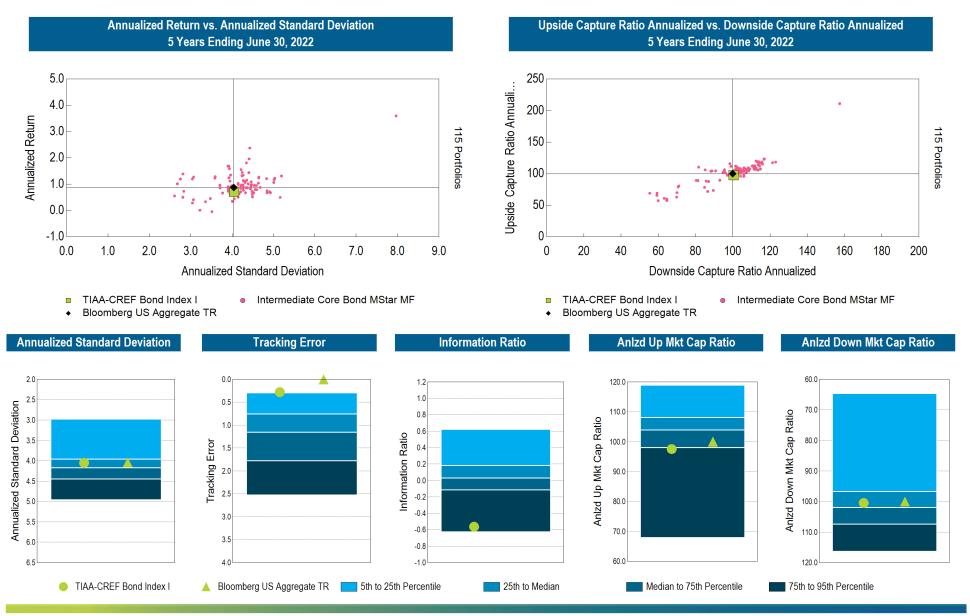








TIAA-CREF Bond Index I | As of June 30, 2022





TIAA-CREF Bond Index I | As of June 30, 2022

| Fund Characteristics as of June | 30, 2022 | Top Holdings as of June 30, 2022 | | Fixed Income Sectors a | s of June 30, 2022 |
|---------------------------------|----------|--|-------|------------------------|--------------------|
| Sharpe Ratio (3 Year) | -0.34 | UNITED STATES TREASURY NOTES 2.125% | 1.61% | GOVERNMENT | 43.69% |
| Average Duration | 6.46 | UNITED STATES TREASURY NOTES 0.375% | 1.22% | MUNICIPAL | 0.77% |
| Average Coupon | 2.47% | UNITED STATES TREASURY NOTES 1.75% | 1.04% | CORPORATE | 24.18% |
| Average Effective Maturity | 8.73 | UNITED STATES TREASURY BONDS 3.5% | 0.94% | SECURITIZED | 29.82% |
| R-Squared (3 Year) | 1.00 | GOVERNMENT NATIONAL MORTGAGE | 0.87% | CASH & EQUIVALENTS | 1.55% |
| Alpha (3 Year) | -0.01% | ASSOCIATION 2% | 0.07% | DERIVATIVE | 0.00% |
| Beta (3 Year) | 1.01 | UNITED STATES TREASURY NOTES 2.25% | 0.86% | | |
| | | FEDERAL NATIONAL MORTGAGE ASSOCIATION 2.5% | 0.81% | | |
| | | UNITED STATES TREASURY NOTES 1.125% | 0.79% | | |
| | | UNITED STATES TREASURY NOTES 0.75% | 0.76% | | |
| | | UNITED STATES TREASURY NOTES 1.75% | 0.74% | | |

| Cred | lit Quality as of June 30, 2022 | Maturities as of June 30, 2022 | | Top Countries as of June 30, 2022 | |
|-----------|---------------------------------|--------------------------------|--------|-----------------------------------|--------|
| AAA | 73.15% | 1 to 3 Years | 15.90% | United States | 93.41% |
| AA | 3.18% | 3 to 5 Years | 19.08% | Supranational | 1.41% |
| A | 10.72% | 5 to 7 Years | 8.32% | United Kingdom | 0.84% |
| BBB | 12.93% | 7 to 10 Years | 8.69% | Canada | 0.83% |
| ВВ | 0.01% | 10 to 15 Years | 4.71% | Japan | 0.67% |
| В | 0.00% | 15 to 20 Years | 6.94% | Germany | 0.39% |
| Below B | 0.00% | 20 to 30 Years | 33.27% | Netherlands | 0.35% |
| Not Rated | 0.01% | Greater than 30 Years | 2.18% | Mexico | 0.28% |
| | | | | Belgium | 0.24% |
| | | | | South Korea | 0.15% |

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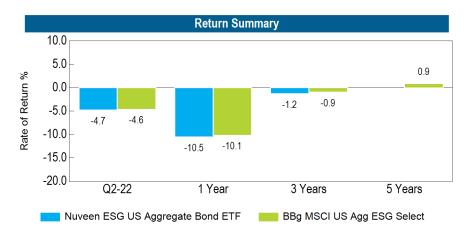


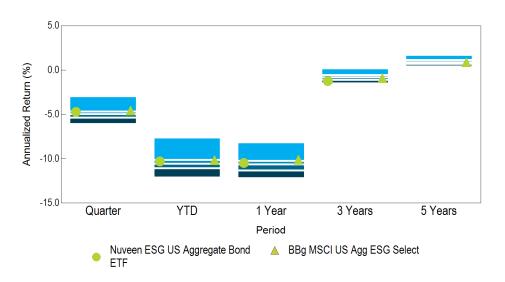
Nuveen ESG US Aggregate Bond ETF | As of June 30, 2022

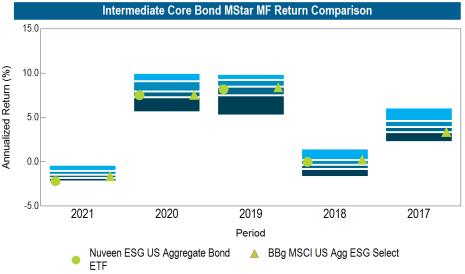
Description:

The investment seeks to track the investment results, before fees and expenses, of the Bloomberg MSCI U.S. Aggregate ESG Select Index (the "index"). Under normal market conditions, the fund invests at least 80% of the sum of its net assets and the amount of any borrowings for investment purposes in component securities of the index. The index utilizes certain environmental, social, and governance ("ESG") criteria to select from the securities included in the Bloomberg U.S. Aggregate Bond Index (the "base index"), which is designed to broadly capture the U.S. investment grade, taxable fixed income market.

| Account Information | | |
|---------------------|----------------------------------|--|
| Account Name | Nuveen ESG US Aggregate Bond ETF | |
| Account Structure | Mutual Fund | |
| Investment Style | Passive | |
| Inception Date | 10/01/17 | |
| Account Type | | |
| Benchmark | BBg MSCI US Agg ESG Select | |
| Universe | Intermediate Core Bond MStar MF | |









Nuveen ESG US Aggregate Bond ETF | As of June 30, 2022





Nuveen ESG US Aggregate Bond ETF | As of June 30, 2022

| | Portfolio |
|------------------------------|-----------|
| | Q2-22 |
| Fixed Income Characteristics | |
| Yield to Maturity | 3.75 |
| Average Quality | AAA |

| | Portfolio |
|---------------------------|-----------|
| | Q2-22 |
| Credit Quality Allocation | |
| AAA | 68.55 |
| AA | 3.73 |
| Α | 13.81 |
| BBB | 13.18 |
| Not Rated | 0.73 |

| | Portfolio |
|----------------------|-----------|
| | Q2-22 |
| US Sector Allocation | |
| UST/Agency | 43.31 |
| Corporate | 27.79 |
| Other | 28.86 |
| Cash | 0.04 |

| | Top Holdings |
|---------------------------------|--------------|
| FNMA 2.500 2051-11-01 USD | 2.82% |
| UST 2% SNR 31/05/2024 USD1000 | 1.83% |
| UST 2.75% SNR 15/08/47 USD1000 | 1.63% |
| UST 0% NTS 30/11/23 USDBK-2023 | 1.54% |
| UST 0% NTS 30/09/25 USDAD-2025 | 1.42% |
| UST 0% NTS 31/10/23 USDBH-2023 | 1.33% |
| UST 0% NTS 31/01/26 USDU-2026 | 1.27% |
| UST 2.125% SNR 30/09/24 USD1000 | 1.21% |
| UST 0% NTS 30/04/26 USDY-2026 | 1.17% |
| UST BDS USD | 1.14% |

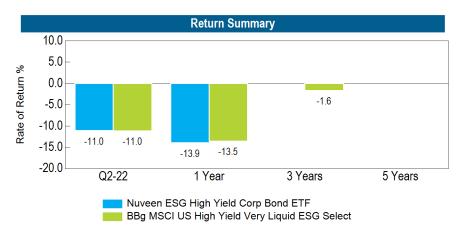


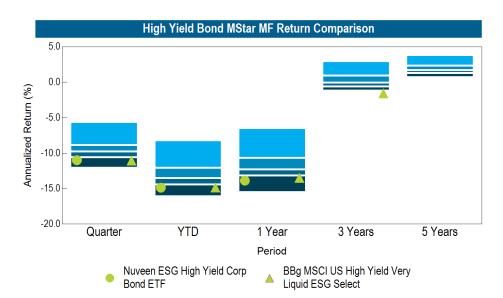
Nuveen ESG High Yield Corp Bond ETF | As of June 30, 2022

Description:

The investment seeks to track the investment results, before fees and expenses, of the Bloomberg MSCI U.S. High Yield Very Liquid ESG Select Index. The index utilizes certain environmental, social, and governance ("ESG") criteria to select from the securities included in the Bloomberg U.S. High Yield Very Liquid Index (the "Base Index"), which is designed to broadly capture the U.S. dollar-denominated, high yield, fixed-rate corporate bond market. Under normal market conditions, it invests at least 80% of the sum of its net assets and the amount of any borrowings for investment purposes in component securities of the index.

| Account Information | | |
|---------------------|---|--|
| Account Name | Nuveen ESG High Yield Corp Bond ETF | |
| Account Structure | Mutual Fund | |
| Investment Style | Passive | |
| Inception Date | 10/01/19 | |
| Account Type | | |
| Benchmark | BBg MSCI US High Yield Very Liquid ESG Select | |
| Universe | High Yield Bond MStar MF | |

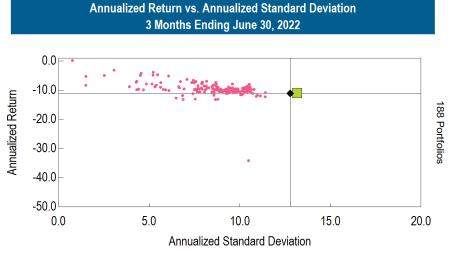




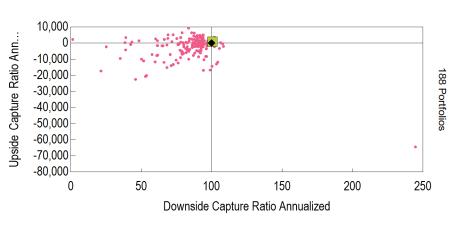




Nuveen ESG High Yield Corp Bond ETF | As of June 30, 2022

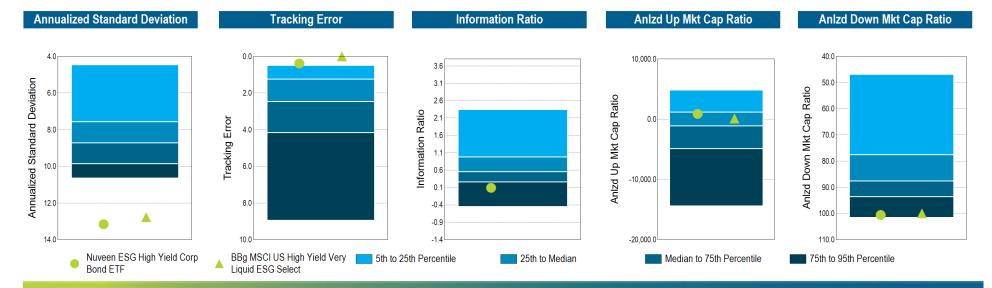






- Nuveen ESG High Yield Corp Bond ETF
- ◆ BBg MSCI US High Yield Very Liquid ESG Select
- High Yield Bond MStar MF

- Nuveen ESG High Yield Corp Bond ETF
- ◆ BBg MSCI US High Yield Very Liquid ESG Select
- High Yield Bond MStar MF





Nuveen ESG High Yield Corp Bond ETF | As of June 30, 2022

| | Portfolio |
|------------------------------|-----------|
| | Q2-22 |
| Fixed Income Characteristics | |
| Average Duration | 4.46 |
| Average Quality | В |

| | Portfolio |
|---------------------------|-----------|
| | Q2-22 |
| Credit Quality Allocation | |
| ВВ | 37.43 |
| В | 52.60 |
| Not Rated | 9.97 |
| | |

| | Portfolio |
|----------------------|-----------|
| | Q2-22 |
| US Sector Allocation | |
| Corporate | 90.46 |
| Foreign | 7.38 |
| Other | 2.16 |

| Top Holdings | |
|--|-------|
| Nielsen Finance LLC/Nielsen Finance Co SNR PIDI NTS USD (144A) | 1.97% |
| Select Medical Corporation 6.25% GTD SNR 15/08/26 USD | 1.50% |
| CASH - USD | 1.33% |
| Trivium Packaging Finance BV 5.5% GTD 15/08/2026 USD | 1.23% |
| Prime Securities Services Borrower, LLC and Prime Finance, Inc. 6.25% SNR SEC 15/01/28 USD | 1.21% |
| Centene Corporation 4.625% SNR 15/12/29 USD1000 | 1.20% |
| Weatherford International Ltd Bermuda SNR NTS USD (144A) | 1.20% |
| WEATHERFORD INTERNATIONA SR SECURED 144A 0928 6.5 | 1.11% |
| Performance Food Group Company 4.25% SNR 01/08/25 USD144A | 1.10% |
| UBER TECHNOLOGIES INC 7.5% GTD SNR 15/05/2025 USD | 0.99% |

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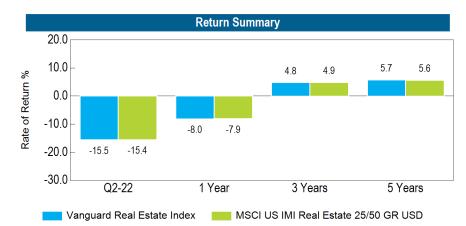
Vanguard Real Estate Index | As of June 30, 2022

Description:

The investment seeks to provide a high level of income and moderate long-term capital appreciation by tracking the performance of the MSCI US Investable Market Real Estate 25/50 Index that measures the performance of publicly traded equity REITs and other real estate-related investments.

The advisor attempts to track the index by investing all, or substantially all, of its assets-either directly or indirectly through a wholly owned subsidiary, which is itself a registered investment company-in the stocks that make up the index, holding each stock in approximately the same proportion as its weighting in the index. The fund is non-diversified.

| Portfolio Fund Information as of June 30, 2022 | | |
|--|--------------------|--|
| Ticker | VGSNX | |
| Morningstar Category | Real Estate | |
| Average Market Cap (\$mm) | 20,968.80 | |
| Net Assets (\$mm) | 10,781.17 | |
| % Assets in Top 10 Holdings | 45.88 | |
| Total Number of Holdings | 173 | |
| Manager Name | Gerard C. O'Reilly | |
| Manager Tenure | 26 | |
| Expense Ratio | 0.10% | |
| Closed to New Investors | No | |

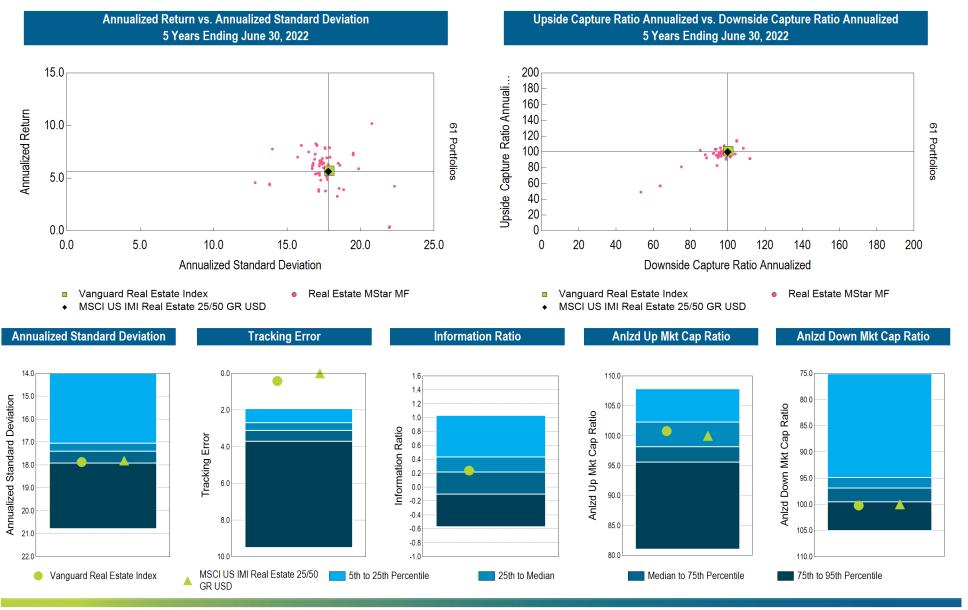








Vanguard Real Estate Index | As of June 30, 2022





ScholarShare 529 College Savings Plan

Vanguard Real Estate Index | As of June 30, 2022

| Fund Characteristics as of June 30, 2022 | |
|--|-----------|
| Sharpe Ratio (3 Year) | 0.21 |
| Average Market Cap (\$mm) | 20,968.80 |
| Price/Earnings | 32.56 |
| Price/Book | 2.31 |
| Price/Sales | 4.37 |
| Price/Cash Flow | 13.16 |
| Dividend Yield | 3.36 |
| Number of Equity Holdings | 169 |
| R-Squared (3 Year) | 1.00 |
| Alpha (3 Year) | -0.01% |

| Sector Allocation as of June 30, 2022 | |
|---------------------------------------|--------|
| BASIC MATERIALS | 0.00% |
| COMMUNICATION SERVICES | 0.53% |
| CONSUMER CYCLICAL | 0.00% |
| CONSUMER DEFENSIVE | 0.00% |
| ENERGY | 0.00% |
| FINANCIAL SERVICES | 0.00% |
| HEALTHCARE | 0.00% |
| INDUSTRIALS | 0.00% |
| REAL ESTATE | 99.41% |
| TECHNOLOGY | 0.06% |
| UTILITIES | 0.00% |

| Top Holdings as of June 30, 2022 | |
|----------------------------------|--------|
| VANGUARD REAL ESTATE II INDEX | 11.59% |
| AMERICAN TOWER CORP | 7.52% |
| PROLOGIS INC | 5.62% |
| CROWN CASTLE INTERNATIONAL CORP | 4.70% |
| EQUINIX INC | 3.85% |
| PUBLIC STORAGE | 3.18% |
| REALTY INCOME CORP | 2.61% |
| WELLTOWER OP LLC | 2.29% |
| DIGITAL REALTY TRUST INC | 2.27% |
| SBA COMMUNICATIONS CORP | 2.25% |

| | Top Countries as of June 30, 2022 | |
|---------------|-----------------------------------|--------|
| United States | | 99.96% |
| Canada | | 0.04% |



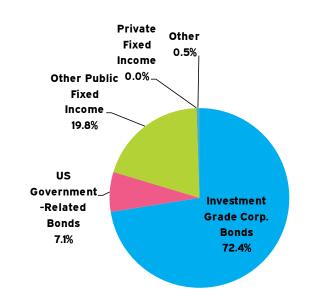
Sensitivity Analyses: T-C Life Funding Agreements



ScholarShare 529 College Savings Plan

Sensitivity Analyses: T-C Life Funding Agreements

T-C Life Funding Agreement



Monitoring Status

Positive

| | Criteria | Status as of 6/30/22 |
|--------------------------|--|--|
| Financial Strength | Moody's = Aa2 Standard & Poor's = AA A.M. Best = A+ Fitch = AA- | Moody's = Aa1 Standard & Poor's = AA+ A.M. Best = A++ Fitch = AAA |
| Mortgage Portfolio* | 100% in Good Standing | 100% in Good Standing* |
| Bond Portfolio* | At least 90% Investment Grade | 99.6% in Investment Grade |
| Account Diversification* | Portfolio is diversified across asset classes and types | Portfolio is diversified across asset classes and types (see chart above) |

*Portfolio did not contain any commercial mortgages.

Source: TIAA-CREF

Summary Points



ScholarShare 529 College Savings Plan

Summary Points

| | | Criteria Utilized for Performance Watch Status | | | | | |
|--------------------------------------|----------|--|------------------------|------------------------|--|--|--|
| | On Watch | Short-term | Medium-term | Long-term | | | |
| T. Rowe Price Instl Large Cap Growth | Yes | Yes | Yes | | | | |
| T. Rowe Price Instl Large Cap Value | No | | | | | | |
| TIAA-CREF Quant Small Cap Equity | No | | | | | | |
| TIAA-CREF Social Choice Equity | No | | | | | | |
| DFA Large Cap International | No | | | | | | |
| DFA Emerging Markets Core Equity | No | | | | | | |
| Metropolitan West Total Return Bond | No | | | | | | |
| PIMCO Real Return | No | | | | | | |
| PIMCO Income | No | | | | | | |
| T. Rowe Price Instl Floating Rate | No | | | | | | |
| TIAA-CREF Equity Index | No | | | | | | |
| TIAA-CREF S&P 500 Index | No | | | | | | |
| TIAA-CREF International Eq Index | No | | | | | | |
| TIAA-CREF Emerging Markets Eq Index | No | | | | | | |
| TIAA-CREF Bond Index | No | | | | | | |
| T-C Life Funding Agreements | No | N/A | N/A | N/A | | | |
| Total | 1 of 16 | 1 of 15 eligible funds | 1 of 15 eligible funds | 0 of 15 eligible funds | | | |

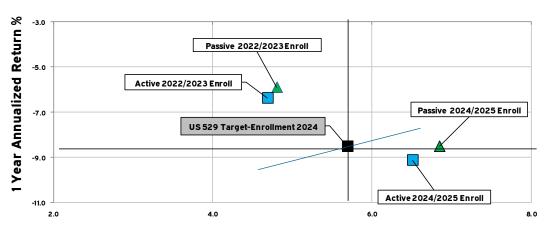
- → Performance-based watch status criteria is on a *relative* basis.
 - Absolute results may still be negative.
- → Criteria set up to evaluate managers over differing time periods.
- → Long-term analysis is presented for informational value to provide context but is not a factor used to determine an Underlying Investment's status.

Enrollment Date Fund Performance



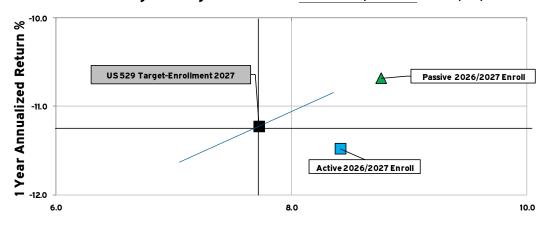
Enrollment Date Portfolios Performance

Morningstar Target Date 2024: 1 Year Risk/Return as of 6/30/2022



1 Year Annualized Std Dev %

Morningstar Target Date 2027: 1 Year Risk/Return as of 6/30/2022

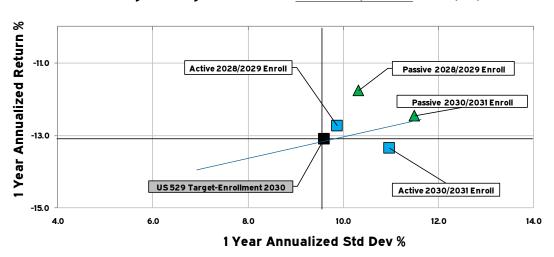


1 Year Annualized Std Dev %

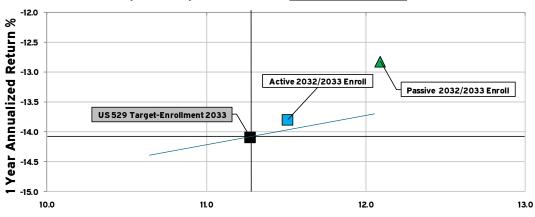


Enrollment Date Portfolios Performance

Morningstar Target Date 2030: 1 Year Risk/Return as of 6/30/2022



Morningstar Target Date 2033: 1 Year Risk/Return as of 6/30/2022

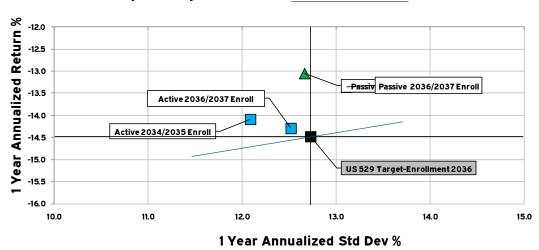


1 Year Annualized Std Dev %

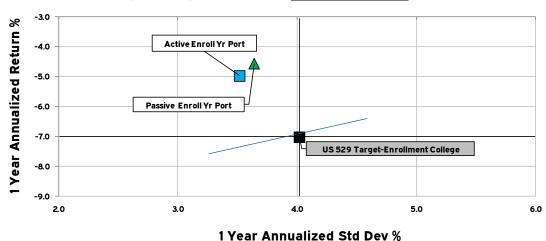


Enrollment Date Portfolios Performance

Morningstar Target Date 2036: 1 Year Risk/Return as of 6/30/2022



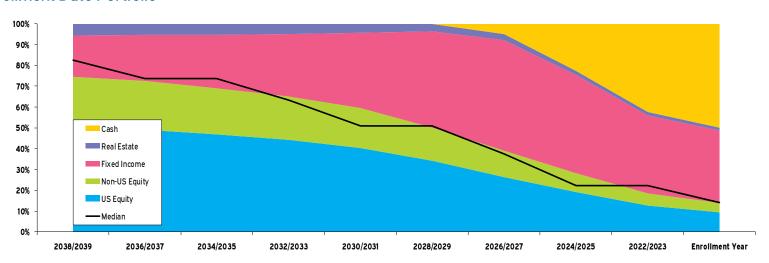
Morningstar Target Date 2039: 1 Year Risk/Return as of 6/30/2022



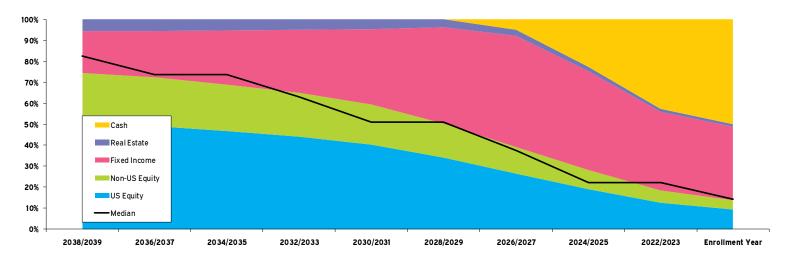


ScholarShare Enrollment Date Glidepath

Active Enrollment Date Portfolio



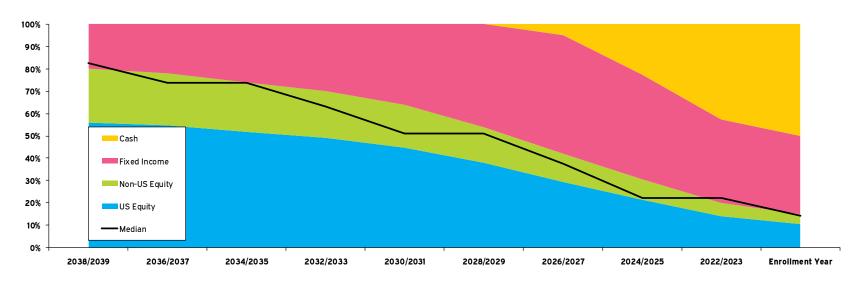
Passive Enrollment Date Portfolio





ScholarShare Enrollment Date Glidepath

ESG Enrollment Date Portfolio



Appendix



Appendix

Glossary

Annualized Return –The average annual return of either the manager or its benchmark.

Excess Performance - Manager returns in excess of the benchmark returns.

Standard Deviation - A measure of dispersion of a set of data from its mean.

Excess Standard Deviation – A measure of the volatility of the average annual difference between the manager's return and the benchmark's return, same as tracking error.

VRR – Value Relative Ratio – Is calculated as: Manager Cumulative Return / Benchmark Cumulative Return.





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MEMORANDUM

TO: ScholarShare Investment Board (SIB)

FROM: Eric White, CFA; Kay Ceserani; Inwoo Hwang;

Meketa Investment Group

DATE: September 13, 2022

RE: Review of Underlying Funds Qualifying for "Watch" Status

Summary

Meketa Investment Group ("Meketa") has conducted a review of the underlying funds in the ScholarShare 529 Plan. The review included a quantitative analysis of the underlying funds based on specific performance criteria (as per the *Monitoring Procedures and Criteria*) as well as a qualitative analysis, including a review of organizational concerns, stability of personnel, changes in investment objectives, etc. This memo summarizes the period from April 1, 2022, through June 30, 2022.

At the end of the period, 2 funds continue to qualify for watch (TIAA-CREF Emerging Markets Equity Index, T. Rowe Large Cap Growth) though we continue to recommend SIB forgo watch status for the TIAA-CREF Emerging Markets Equity Index as the spike in tracking error was caused by a technical market anomaly discussed at the March 23, 2022 meeting. T. Rowe Price Large Cap Growth fund was placed on Watch at the June 22, 2022 meeting. Meketa recommends the fund remain on Watch and be closely monitored over coming quarters. We will report any material findings to SIB.

Qualifying for Watch

- 1. TIAA-CREF Emerging Markets Equity Index
- 2. T. Rowe Large Cap Growth

Performance of Funds on Watch Status As of 6/30/2022

| Funds on Watch Status | Board Action Date | Watch Status Start Date | No. Months Since Watch Began | Excess Perf. Since Watch Began | Plan Assets (\$mil) | % of Plan Assets |
|--------------------------|-------------------------|----------------------------------|------------------------------------|--------------------------------------|------------------------|---------------------|
| T. Rowe Large Cap Growth | | 4/1/2022 | 3 | -2.0 | 280.2 | 2.4% |



Discussion

T. Rowe Large Cap Growth

Investment Role in Program

The T. Rowe Large Cap Growth Fund is one of two actively managed US Large Cap Funds in the program. The fund holds a \$331.3M of fund assets.

The T. Rowe Large Cap Growth Fund seeks long-term capital appreciation by investing in common stock of large cap growth companies.

History and Organizational Structure

T. Rowe Price serves as the manager and advisor of the fund. Headquartered in Maryland, T. Rowe Price has over \$1 trillion in assets under management.

Investment Team

Taymour Tamaddon has served as the fund manager since 2017. Mr. Tamaddon has managed this fund since 2017 and has been with the firm for since 2004. He earned an MBA from Dartmouth College and is also a CFA charter holder.

Investment Philosophy and Approach

The fund uses a growth style of investing. The fund invests utilizes a bottom-up investment approach on companies that fall in the large-cap U.S. investment universe, defined as companies in the Russel 1000 Growth Index. The team seeks companies with an above-average rate of earnings and cash flow growth, as well as lucrative strategic positioning to drive future earnings growth. The <u>fund is non-diversified</u> as the fund may invest a larger percentage of assets in a smaller number of securities than a diversified fund. The fund looks for companies with one of more of the following characteristics:

- → Above average growth rate: seek companies with superior growth in earnings and cash flow.
- → Operations in "fertile fields": seeks companies with ability to sustain earnings momentum even in economic slowdowns by operating in industries or services where earnings and dividends can outpace inflation and the overall economy.
- → Durability of earnings growth: seeks companies that operate in a lucrative niche in the economy that enables the company to expand even during slow growth periods.

Performance

The fund qualified for "Watch" based on the medium-term monitoring criteria. Fund has continued to underperform in the most recent quarter, attributable to lack of exposure to Consumer Staples & stock selection in Consumer Discretionary & Communication Services sectors.



Trailing Performance Results, Net of Fees Ending June 30, 2022

| Fund | Quarter | 1 Year | 3 Years | 5 Years | Since Addition (11/20/2011) |
|-------------------------------------|---------|-----------|------------|------------|-----------------------------------|
| T. Rowe Price Large Cap Growth Fund | -22.9 | -29.4 | 7.7 | 12.2 | -14.6 |
| Russell 1000 Growth | -20.9 | -18.8 | 12.6 | 14.3 | -14.8 |
| Difference | -2.0 | -10.6 | -4.9 | -2.1 | -0.2 |
| Percentile Rank* | 68 | 74 | 59 | 35 | 9 |

^{*}Morningstar Large-Cap Growth Universe. 1 = Best, 100 = Worst.

The fund has outperformed the benchmark in the three of the last five calendar years, though it underperformed in the most recent calendar year. Stock selection especially in Information Technology, Consumer Discretionary, and Communications services sectors detracted from performance in 2021.

Calendar Year Performance Results, Net of Fees Ending December 31, 2021

| Fund | 2017 | 2018 | 2019 | 2020 | 2021 |
|-------------------------------------|------|------|------|------|------|
| T. Rowe Price Large Cap Growth Fund | 37.8 | 4.3 | 28.5 | 39.6 | 23.2 |
| Russell 1000 Growth | 30.2 | -1.5 | 36.4 | 38.5 | 27.6 |
| Difference | 7.6 | 5.8 | -7.9 | 1.1 | -4.4 |
| Percentile Rank* | 4 | 9 | 88 | 32 | 45 |

^{*} Morningstar Large-Cap Growth Universe. 1 = Best, 100 = Worst.

Over time, the large cap growth segment of the US stock market has proven itself to be an area where active investment managers have particularly struggled. Illustrating this fact is the top quartile performance of the Russell 1000 Growth index over longer trailing time periods. In fact, as of the end of 2021, the index ranked in the 14th percentile over the trailing 10-year period, indicating it has outperformed over 85% of the funds with similar capital market exposure. This compares to other asset classes where the index tends to produce near-median results. The exceptional peer performance of the index can be attributed to multiple factors with the dominant factors being the high concentration in the index top holdings.

The Russell 1000 Growth index is highly concentrated in its top holdings. In fact, just the top 10 holdings constitute approximately 50% of the index, while the top 5 holdings comprise roughly 40%. Of those, two stocks, Apple and Microsoft, each account for more than 10% of the index. This high concentration results in the price movement of 5 or 10 stocks dominating the performance of the index. As a result, a manager's weighting to those 5 to 10 stocks largely defines their relative performance to the index. As such, their view on just 10 or so holdings often overwhelms their view on the other 490 or so stocks in the index. Compounding this is the fact that, in practice, it is difficult for an active manager to express



positive conviction in the top 5 stocks of the index given their enormous weight and the fact that the manager would have to hold them at an even larger weight.

As such, it is likely that the T. Rowe Large Cap Growth fund will exhibit volatile relative performance over time. We would expect that this volatility should be materially positive in some periods and materially negative in others. Prior to recent materially negative relative performance, the Fund had a sizeable relative outperformance over a considerable period of time. Over time, this Fund has demonstrated strong absolute and peer results though with periods of dramatic underperformance relative to the benchmark. Overall, Meketa has a favorable opinion of the fund and views it as one of the better options in its peer universe.

Recommendation

Due to continued underperformance against its benchmark, Meketa recommends that the T. Rowe Large Cap Growth Fund remain on "Watch" status to be closely monitored over future periods.

EDW/KRC/IH/mp



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