S&P Dow Jones Indices

A Division of S&P Global

SPIVA® U.S. Scorecard

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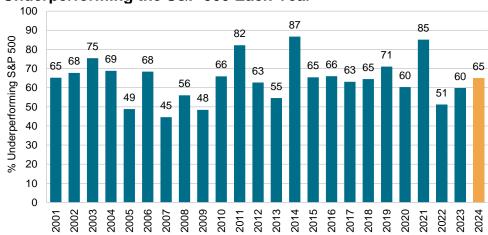
Summary

In an environment characterized by large-cap dominance, it was not surprising to see that a majority of actively managed equity funds underperformed their assigned benchmarks in 2024. Fixed income managers had a mixed year, with pockets of high outperformance.

In our largest and most closely watched comparison, **65% of all active large-cap U.S. equity funds underperformed the <u>S&P</u> <u>500</u>[®], worse than the 60% rate observed in 2023 and slightly above the 64% average annual rate reported over the 24-year history of our SPIVA Scorecards.**

Across asset classes, underperformance rates typically rose as time horizons lengthened. At the one-year horizon, 7 of 22 equity categories and 11 of 16 fixed income categories saw majority outperformance. Over the 15-year period ending December 2024, there were no categories in which a majority of active managers outperformed.

Exhibit 1: Percentage of Large-Cap Domestic Equity Funds Underperforming the S&P 500 Each Year



Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Chart is provided for illustrative purposes.

Despite opportunities to tilt toward outperforming large caps, 1 62% of All Mid-Cap funds lagged the S&P MidCap 400[®]. But there was a striking divergence in the performance of smaller-capitalization U.S. equity managers. Perhaps benefiting from the relatively lower benchmark performance—a 16% return differential separated The 500™ and the S&P SmallCap 600[®]—only **30% of All U.S. Small-Cap funds underperformed**. That was their lowest underperformance rate across more than two decades of our annual SPIVA Scorecards (see Exhibit 2).

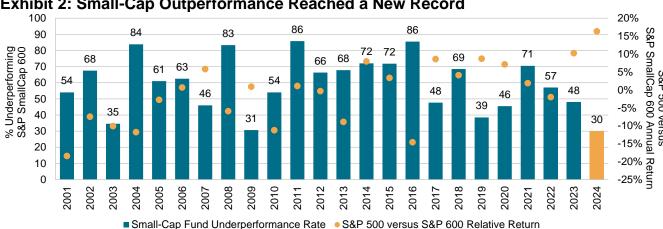


Exhibit 2: Small-Cap Outperformance Reached a New Record

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Index performance based on total returns in USD. Past performance is no guarantee of future results. Charts are provided for illustrative purposes.

The positive momentum for small-cap managers was not confined to the U.S. as evidenced by just 43% of International Small-Cap funds underperforming at the one-year horizon. Other international equity categories were not as fortunate: 84% of funds in the Global category underperformed the S&P World Index, and 69% of International funds underperformed the S&P World Ex-U.S. Index. Meanwhile, reversing their H1 2024 majority outperformance, 71% of Emerging Markets funds underperformed over the full year in 2024. China's weak performance in H1 and strong recovery in H2 may have posed a headwind for managers who had previously benefited from an underweight to China.²

Fixed income results were generally better, with an average one-year underperformance rate of 41% across all fund categories³ and majority outperformance reported in 11 out of our 16 categories. Performance among credit managers was mixed: 70% of General Investment-Grade funds outperformed, but 66% of High Yield funds underperformed. Municipal categories saw majority outperformance across the board as did emerging debt. At the other extreme, 95% of Government Intermediate funds underperformed.

Ganti, Anu and Craig J. Lazzara, "Style Bias and Active Performance," S&P Dow Jones Indices, March 2021.

Ganti, Anu, "Clash of Titans: Diverging Global and Emerging Market Mid-Year Active Performance," S&P Dow Jones Indices, October

See Appendix C of SPIVA U.S. Scorecard Year-End 2022 for details on change of categories and benchmarks in fixed income categories since 2022.

Market Context

U.S. equity markets experienced an impressive year in 2024, characterized by 57 all-time closing highs. **The 500 finished up 25%, marking its best two-year run since 1998**. The broadening of the rally ahead of the Presidential election, though not sustainable through the end of the year, led to gains for the S&P MidCap 400 and the S&P SmallCap 600 of 14% and 9%, respectively. Fixed income markets also gained ground, despite inflation concerns, volatility in 10-year Treasury bond yields and fewer than expected Fed rate cuts.

All but one of our 38 category benchmarks delivered positive performance in 2024. Powered by mega-cap outperformance and AI-related optimism, the <u>S&P 500 Growth</u> outperformed The 500 by 11%. On the fixed income side, higher yielding, lower quality bonds benefited, led by outperformance from leveraged loans and high yield.

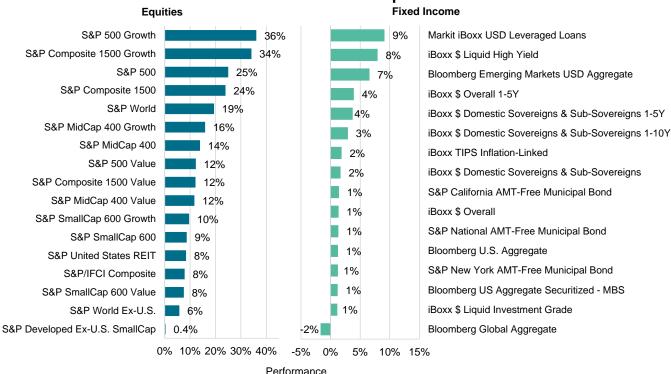


Exhibit 3: 2024 Performance of U.S. Scorecard Comparison Indices

Source: S&P Dow Jones Indices LLC, Bloomberg LLC. Data as of Dec. 31, 2024. Index performance based on total returns in USD. Past performance is no guarantee of future results. Charts are provided for illustrative purposes.

Consistent with what we observed in 2023, mega-cap outperformance was a major market theme last year, with the average return for The 500's largest capitalization quintile outpacing the smallest quintile's average by 10% in 2024. However, Exhibit 4 shows that **large-cap outperformance did not occur in a consistent pattern.** The difference in the average return of stocks in the top and bottom size quintiles grew from 4% to 7% from Q1 to Q2. A decline of

5% followed in Q3 as enthusiasm ensued for domestically sensitive smaller stocks ahead of the election and reversed in Q4 to 4% as mega caps returned to favor.

Another way to visualize the changing degree of large-cap dominance is through the contribution from the top five stocks to S&P 500 performance. The top five's contribution spiked from 39% to 94% in Q2, followed by a sharp decline to 10% in Q3 and a reversal upward to 71% in Q4.

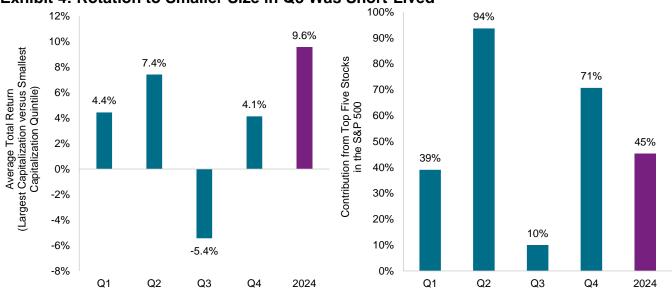


Exhibit 4: Rotation to Smaller Size in Q3 Was Short-Lived

Source: S&P Dow Jones Indices LLC, FactSet. Data as of Dec. 31, 2024. Average total return shows the difference in the unweighted average total return of stocks in the top and bottom S&P 500 capitalization quintile as of the prior quarter. Past performance is no guarantee of future results. Chart is provided for illustrative purposes.

When an index's largest constituents are outperforming, active management may become especially challenging,⁴ since larger stocks are often underweighted by active managers.⁵ Still, **35% of All Large-Cap funds managed to outperform The 500,** so there may have been pockets of opportunity for nimble stock pickers. Exhibit 5 shows the percentage of stocks that beat the S&P 500, along with the average and median constituent return by quarter. The distribution of the excess returns of the members of the S&P 500 for the full year is also shown.

Although only 28% of stocks outperformed for the year, 66% of stocks outperformed the benchmark during Q3, the highest percentage compared to the rest of the year. A negatively skewed distribution of returns during this period, with an average return below that of the median, may have provided a much-needed, though ephemeral, tailwind—a natural consequence of the broadening of the rally.

⁴ Lazzara, Craig J. and Fei Mei Chan, "Degrees of Difficulty: Indications of Active Success," S&P Dow Jones Indices, January 2022.

⁵ Ganti, Anu, "Mutual Fund Portfolios: Equal Weight or Cap Weight?" S&P Dow Jones Indices, July 2017.

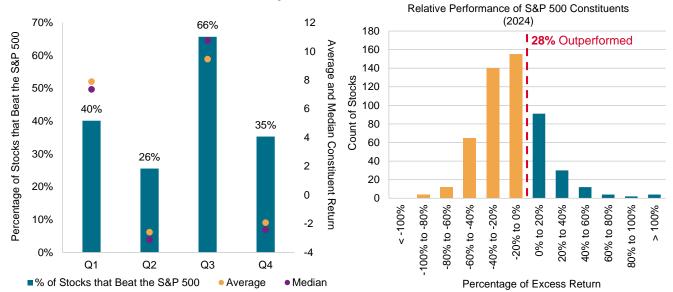


Exhibit 5: Two Thirds of Stocks Outperformed the S&P 500 in Q3

Source: S&P Dow Jones Indices LLC, FactSet. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Charts are provided for illustrative purposes.

While the prospects for stock selection may have been slim, there may have been plenty of potential opportunities for skillful sector rotators in the latter half of the year. Dispersion among S&P 500 sectors gained from May onward, as market participants gauged which sectors would be the beneficiaries or laggards of the new Presidential regime. Driven by significant repricing among sectors in December after the election outcome, a 14% performance spread developed between leader Communication Services and laggard Materials. The greater importance of sectors in 2024 is generally consistent with the trends observed in past election years.⁶

⁶ Ganti, Anu and Craig J. Lazzara, "Sector Effects During Elections," S&P Dow Jones Indices, September 2020.

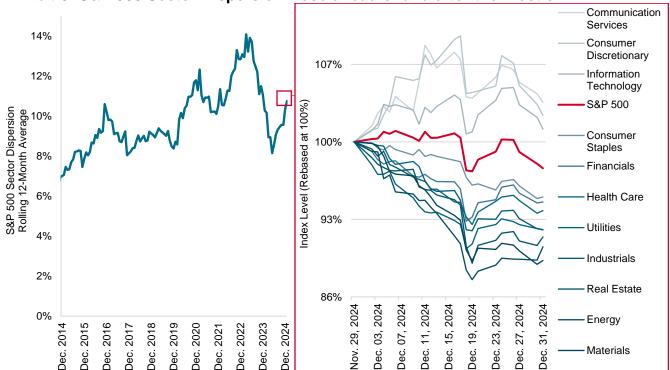


Exhibit 6: S&P 500 Sector Dispersion Rose ahead of and after the Election

Source: S&P Dow Jones Indices LLC. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Charts are provided for illustrative purposes.

Consistent with ripe style bias conditions within equities, **out-of-benchmark exposures can matter as much or even more for fixed income managers.**⁷ Exhibit 7 summarizes the relative performance of term, credit and liquidity—the traditional sources of excess return for bond pickers⁸—through the representative USD iBoxx indices. The fortunes for U.S.-domiciled fixed income managers may have largely depended on which side of the credit or duration spectrum they landed on. Reaching for riskier credit exposures, particularly at the long end of the maturity spectrum, could have paid off handsomely, with a 9% excess return between the iBoxx USD High Yield Developed Markets 10+ and the iBoxx \$ Corporates 10Y+.

However, in an unusual rate regime that began with an inverted yield curve followed by rising long-term yields, **taking on greater duration risk would not have helped**. Instead, bond managers who shortened their duration exposures could have benefited. Notably, only 12% of Investment-Grade Short & Intermediate funds underperformed the iBoxx \$ Overall 1-5Y, perhaps by capitalizing on both favorable long credit and short duration trends. Tilting toward more illiquid bond exposures could have helped as well, but to a lesser extent.

⁷ Chapman, Florence et. al, "SPIVA Global Scorecard," S&P Dow Jones Indices, Mid-Year 2024.

⁸ Malinowski, Agatha, "Time, Trust and Trading," S&P Dow Jones Indices, July 2024.

Exhibit 7: Active Fixed Income Managers Faced Dueling Headwinds and Tailwinds

| Return Facto | or | Index 1 | (-) Index 2 | 2024 (%) |
|--------------------|--|--|-------------------------------------|----------|
| (1) Term | Overall | iBoxx \$ Overall 10-15Y | iBoxx \$ Overall 1-3Y | -4.50 |
| | Short Term IG | iBoxx \$ Corporates 1-3Y | iBoxx \$ Treasuries 1-3Y | 1.32 |
| Long Term IG | Long Term IG iBoxx \$ Corporates 15Y+ iBoxx \$ Treasurie | | 3.73 | |
| (2) Credit | (2) Credit Short Term HY | iBoxx USD High Yield Developed Markets 1-3Y | iBoxx \$ Corporates 1-3Y | 3.84 |
| | Long Term HY | iBoxx USD High Yield Developed Markets 10Y+ | iBoxx \$ Corporates 10Y+ | 8.50 |
| (0) 111: 1:4 | IG | iBoxx \$ Corporates | iBoxx \$ Liquid Investment Grade | 1.55 |
| (3) Illiquidity HY | | iBoxx USD High Yield Developed Markets | iBoxx \$ Liquid High Yield | 0.29 |

Source: S&P Dow Jones Indices LLC. Data as of Dec. 31, 2024. IG stands for investment grade. HY stands for high yield. Past performance is no guarantee of future results. Charts are provided for illustrative purposes.

2024 was similar to 2023 in a lot of respects: double-digit gains for the S&P 500, mega-cap dominance and relatively high sector dispersion. However, there were some notable differences, including the mid-year rotation toward smaller stocks that subsequently reversed, a rise in U.S. Treasury yields and associated disinversion of the yield curve, all amid the backdrop of a Presidential election and the uncertainty associated with it. As a result, active equity manager underperformance rates were relatively consistent with the prior year. Despite this, it was an overall better year for fixed income managers, particularly those situated within the investment grade space.

A Unique Scorecard for the Active versus Passive Debate

Since its first publication in 2002, the SPIVA Scorecard has served as the de facto scorekeeper of the long-standing active versus passive debate. Beyond the SPIVA Scorecard's widely cited headline numbers is a rich data set that addresses issues—often far more fascinating though far less discussed—about measurement techniques, universe composition and fund survivorship. These data sets are rooted in the following fundamental principles of the SPIVA Scorecard, with which regular readers will be familiar.

- Survivorship Bias Correction: Many funds might be liquidated or merged during a
 period of study. However, for someone making an investment decision at the beginning
 of the period, these funds are part of the opportunity set. Unlike other commonly
 available comparison reports, SPIVA Scorecards account for the entire opportunity set—
 not just the survivors—thereby eliminating survivorship bias.
- Apples-to-Apples Comparison: Fund returns are often compared to popular benchmarks such as the S&P 500, regardless of size or style classification. SPIVA Scorecards avoid this pitfall by measuring a fund's returns against the returns of a benchmark appropriate for that particular investment category.
- Asset-Weighted Returns: Average returns for a fund group are often calculated using only equal weighting, which results in the returns of a USD 10 billion fund affecting the average in the same manner as the returns of a USD 10 million fund. A more accurate representation of how market participants fared in a particular period is found by calculating weighted average returns where each fund's return is weighted by net assets. SPIVA Scorecards show both equal- and asset-weighted averages.
- Style Consistency: SPIVA Scorecards measure style consistency for each style
 category across different time horizons. Style consistency is an important metric because
 style drift (the tendency of funds to diverge from their initial investment categorization)
 can have an impact on asset allocation decisions.
- Data Cleaning: SPIVA Scorecards avoid double-counting multiple share classes in all count-based calculations, using only the share class with greater assets. Since this is meant to be a scorecard for active managers, it excludes index funds, leveraged and inverse funds, and other index-linked products.

Historical View

To provide context for the relative performance of active funds, we compile annual league tables across the U.S. and select international equity categories. The tables show how active funds performed against their benchmarks in each calendar year. Owing to the 2022 change in fixed income categories and benchmarks and mid-year 2024 change in benchmarks for the Global Equity and International Equity categories, equivalent year-over-year comparisons for fixed income along with global and international equity funds would not provide "apples-to-apples" comparisons.⁹

Exhibit 8: Percentage of U.S. Equity and International Funds Underperforming Benchmarks Each Year

| Delicilliarks Lacii | Deficilitatiks Each Teat | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--------------------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Fund Category | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
| Domestic Equity Funds (| (%) | | | | | | | | | | | | | | | | | | | | | | |
| All Domestic Funds | 58 | 48 | 51 | 42 | 68 | 49 | 65 | 41 | 48 | 85 | 65 | 43 | 87 | 74 | 61 | 63 | 69 | 70 | 57 | 80 | 50 | 75 | 79 |
| All Large-Cap Funds | 68 | 75 | 69 | 49 | 68 | 45 | 56 | 48 | 66 | 82 | 63 | 55 | 87 | 65 | 66 | 63 | 65 | 71 | 60 | 85 | 51 | 60 | 65 |
| All Mid-Cap Funds | 74 | 52 | 65 | 74 | 45 | 46 | 76 | 56 | 73 | 69 | 80 | 37 | 66 | 57 | 89 | 44 | 46 | 32 | 51 | 62 | 63 | 50 | 62 |
| All Small-Cap Funds | 68 | 35 | 84 | 61 | 63 | 46 | 83 | 31 | 54 | 86 | 66 | 68 | 72 | 72 | 86 | 48 | 69 | 39 | 46 | 71 | 57 | 48 | 30 |
| All Multi-Cap Funds | 54 | 49 | 49 | 37 | 69 | 46 | 70 | 39 | 60 | 84 | 65 | 47 | 82 | 70 | 75 | 57 | 67 | 69 | 56 | 80 | 51 | 72 | 78 |
| Large-Cap Growth Funds | 83 | 48 | 44 | 38 | 94 | 27 | 91 | 37 | 51 | 96 | 46 | 41 | 96 | 48 | 90 | 33 | 60 | 33 | 38 | 99 | 74 | 10 | 92 |
| Large-Cap Core Funds | 67 | 85 | 83 | 56 | 81 | 44 | 52 | 51 | 77 | 83 | 67 | 58 | 80 | 74 | 75 | 69 | 76 | 70 | 66 | 79 | 54 | 73 | 76 |
| Large-Cap Value Funds | 35 | 86 | 87 | 54 | 80 | 46 | 25 | 46 | 71 | 54 | 85 | 65 | 78 | 62 | 78 | 47 | 46 | 97 | 33 | 39 | 59 | 91 | 39 |
| Mid-Cap Growth Funds | 86 | 36 | 64 | 80 | 28 | 42 | 91 | 54 | 84 | 77 | 87 | 35 | 55 | 80 | 95 | 18 | 15 | 9 | 17 | 83 | 91 | 24 | 63 |
| Mid-Cap Core Funds | 70 | 55 | 57 | 66 | 32 | 61 | 60 | 71 | 87 | 66 | 79 | 43 | 59 | 68 | 91 | 62 | 62 | 41 | 80 | 45 | 54 | 12 | 67 |
| Mid-Cap Value Funds | 64 | 68 | 53 | 69 | 37 | 58 | 68 | 47 | 57 | 68 | 74 | 41 | 71 | 34 | 97 | 43 | 72 | 65 | 53 | 63 | 73 | 75 | 68 |
| Small-Cap Growth Funds | 97 | 27 | 95 | 78 | 51 | 41 | 95 | 31 | 62 | 94 | 63 | 55 | 64 | 88 | 96 | 15 | 62 | 14 | 14 | 87 | 80 | 55 | 23 |
| Small-Cap Core Funds | 67 | 35 | 80 | 58 | 56 | 56 | 82 | 33 | 59 | 86 | 69 | 78 | 67 | 78 | 90 | 59 | 88 | 41 | 62 | 61 | 40 | 52 | 33 |
| Small-Cap Value Funds | 30 | 48 | 72 | 45 | 71 | 39 | 72 | 25 | 42 | 82 | 62 | 79 | 94 | 45 | 89 | 74 | 83 | 80 | 44 | 51 | 41 | 37 | 43 |
| Multi-Cap Growth Funds | 62 | 34 | 51 | 18 | 73 | 30 | 88 | 42 | 46 | 95 | 52 | 39 | 87 | 66 | 85 | 46 | 66 | 45 | 47 | 93 | 56 | 42 | 78 |
| Multi-Cap Core Funds | 49 | 55 | 61 | 38 | 77 | 45 | 66 | 39 | 66 | 83 | 68 | 53 | 84 | 84 | 75 | 69 | 82 | 74 | 62 | 80 | 58 | 76 | 80 |
| Multi-Cap Value Funds | 61 | 57 | 79 | 72 | 84 | 58 | 48 | 36 | 68 | 67 | 73 | 48 | 67 | 56 | 71 | 50 | 75 | 92 | 50 | 51 | 58 | 91 | 38 |
| Real Estate Funds | 48 | 57 | 43 | 44 | 68 | 45 | 73 | 38 | 67 | 66 | 62 | 65 | 68 | 43 | 84 | 37 | 89 | 27 | 25 | 70 | 88 | 87 | 81 |
| International Equity Fund | ds (% | %) | | | | | | | | | | | | | | | | | | | | | |
| International Small-Cap Funds | 68 | 56 | 56 | 60 | 65 | 37 | 53 | 49 | 45 | 60 | 25 | 48 | 69 | 49 | 72 | 44 | 91 | 61 | 52 | 31 | 60 | 54 | 43 |
| Emerging Markets Funds | 63 | 65 | 79 | 65 | 78 | 70 | 65 | 71 | 65 | 53 | 46 | 55 | 71 | 66 | 64 | 65 | 62 | 36 | 52 | 65 | 76 | 63 | 71 |

Sources: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. See reports 1a and 6a for the indices used as benchmarks for each category. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

⁹ The interested reader may find the as-reported historical outperformance rates for fixed income categories in prior scorecards, available at spglobal.com/spiva.

Reports

Report 1a: Percentage of U.S. Equity Funds Underperforming Their Benchmarks

(Based on Absolute Return)

| Fund Category | Comparison Index | 1-Year (%) | 3-Year (%) | 5-Year (%) | 10-Year (%) | 15-Year (%) | 20-Year (%) |
|------------------------|---------------------------|---------------|---------------|---------------|----------------|----------------|----------------|
| All Domestic Funds | S&P Composite 1500® | 78.65 | 87.65 | 84.69 | 89.70 | 93.23 | 94.11 |
| All Large-Cap Funds | S&P 500 | 65.24 | 84.96 | 76.26 | 84.34 | 89.50 | 91.99 |
| All Mid-Cap Funds | S&P MidCap 400 | 62.00 | 74.64 | 80.00 | 77.32 | 87.50 | 90.93 |
| All Small-Cap Funds | S&P SmallCap 600 | 29.69 | 53.03 | 60.37 | 82.22 | 90.68 | 90.80 |
| All Multi-Cap Funds | S&P Composite 1500 | 78.45 | 86.13 | 82.93 | 87.44 | 91.52 | 93.41 |
| Large-Cap Growth Funds | S&P 500 Growth | 92.03 | 57.02 | 80.18 | 84.84 | 95.91 | 96.90 |
| Large-Cap Core Funds | S&P 500 | 75.89 | 82.30 | 80.37 | 96.62 | 97.07 | 93.27 |
| Large-Cap Value Funds | S&P 500 Value | 38.58 | 89.89 | 78.91 | 89.61 | 95.08 | 87.78 |
| Mid-Cap Growth Funds | S&P MidCap 400 Growth | 63.08 | 85.95 | 74.26 | 65.12 | 82.49 | 88.30 |
| Mid-Cap Core Funds | S&P MidCap 400 | 66.67 | 65.88 | 81.48 | 88.80 | 92.81 | 96.75 |
| Mid-Cap Value Funds | S&P MidCap 400 Value | 68.00 | 78.57 | 80.36 | 92.75 | 92.16 | 94.19 |
| Small-Cap Growth Funds | S&P SmallCap 600 Growth | 23.12 | 68.14 | 66.17 | 77.34 | 87.34 | 91.46 |
| Small-Cap Core Funds | S&P SmallCap 600 | 33.22 | 39.58 | 56.49 | 86.54 | 94.10 | 92.48 |
| Small-Cap Value Funds | S&P SmallCap 600 Value | 42.55 | 35.82 | 48.05 | 81.15 | 93.38 | 92.78 |
| Multi-Cap Growth Funds | S&P Composite 1500 Growth | 78.08 | 75.28 | 83.25 | 90.00 | 91.24 | 92.50 |
| Multi-Cap Core Funds | S&P Composite 1500 | 80.00 | 86.22 | 88.16 | 95.53 | 95.50 | 94.69 |
| Multi-Cap Value Funds | S&P Composite 1500 Value | 38.16 | 88.10 | 80.00 | 92.98 | 95.63 | 90.76 |
| Real Estate Funds | S&P United States REIT | 80.52 | 85.19 | 82.93 | 82.42 | 88.00 | 90.12 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 1b: Percentage of U.S. Equity Funds Underperforming Their Benchmarks (Based on Risk-Adjusted Return)

| Fund Category | Comparison Index | 3-Year (%) | 5-Year (%) | 10-Year (%) | 15-Year (%) | 20-Year (%) |
|------------------------|---------------------------|---------------|---------------|----------------|----------------|----------------|
| All Domestic Funds | S&P Composite 1500 | 88.96 | 90.04 | 93.36 | 97.99 | 97.26 |
| All Large-Cap Funds | S&P 500 | 84.96 | 86.21 | 91.54 | 98.13 | 95.48 |
| All Mid-Cap Funds | S&P MidCap 400 | 71.01 | 75.00 | 76.50 | 84.75 | 90.68 |
| All Small-Cap Funds | S&P SmallCap 600 | 54.40 | 57.78 | 79.32 | 87.89 | 89.08 |
| All Multi-Cap Funds | S&P Composite 1500 | 88.25 | 88.15 | 92.40 | 96.42 | 96.63 |
| Large-Cap Growth Funds | S&P 500 Growth | 64.26 | 83.33 | 92.78 | 99.18 | 100.00 |
| Large-Cap Core Funds | S&P 500 | 76.11 | 79.45 | 94.77 | 98.40 | 96.33 |
| Large-Cap Value Funds | S&P 500 Value | 88.45 | 77.32 | 88.20 | 90.77 | 83.26 |
| Mid-Cap Growth Funds | S&P MidCap 400 Growth | 85.12 | 75.00 | 72.67 | 85.71 | 89.89 |
| Mid-Cap Core Funds | S&P MidCap 400 | 58.82 | 74.07 | 87.20 | 86.27 | 94.31 |
| Mid-Cap Value Funds | S&P MidCap 400 Value | 62.86 | 60.71 | 76.81 | 79.41 | 83.72 |
| Small-Cap Growth Funds | S&P SmallCap 600 Growth | 68.14 | 63.68 | 81.28 | 90.72 | 93.97 |
| Small-Cap Core Funds | S&P SmallCap 600 | 41.25 | 56.87 | 81.92 | 87.82 | 88.50 |
| Small-Cap Value Funds | S&P SmallCap 600 Value | 29.85 | 41.56 | 72.95 | 80.88 | 85.57 |
| Multi-Cap Growth Funds | S&P Composite 1500 Growth | 78.09 | 86.91 | 93.00 | 97.24 | 96.88 |
| Multi-Cap Core Funds | S&P Composite 1500 | 85.78 | 89.04 | 97.59 | 99.21 | 96.76 |
| Multi-Cap Value Funds | S&P Composite 1500 Value | 89.05 | 89.03 | 92.11 | 93.75 | 87.50 |
| Real Estate Funds | S&P United States REIT | - | 76.83 | 72.53 | 81.00 | 86.42 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 2: Survivorship and Style Consistency of U.S. Equity Funds

| Fund Category | Number of Funds at Start | Survivorship (%) | Style Consistency |
|------------------------|--------------------------|------------------|-------------------|
| 1-Year | | | |
| All Domestic Funds | 2187 | 96.89 | 93.78 |
| All Large-Cap Funds | 771 | 97.67 | 96.11 |
| All Mid-Cap Funds | 300 | 97.67 | 89.33 |
| All Small-Cap Funds | 522 | 96.55 | 95.40 |
| All Multi-Cap Funds | 594 | 95.79 | 91.58 |
| Large-Cap Growth Funds | 251 | 96.81 | 98.01 |
| Large-Cap Core Funds | 253 | 98.02 | 94.47 |
| Large-Cap Value Funds | 267 | 98.13 | 95.88 |
| Mid-Cap Growth Funds | 130 | 96.92 | 93.85 |
| Mid-Cap Core Funds | 120 | 98.33 | 85.83 |
| Mid-Cap Value Funds | 50 | 98.00 | 86.00 |
| Small-Cap Growth Funds | 186 | 96.24 | 93.55 |
| Small-Cap Core Funds | 289 | 96.89 | 97.92 |
| Small-Cap Value Funds | 47 | 95.74 | 87.23 |
| Multi-Cap Growth Funds | 146 | 93.84 | 85.62 |
| Multi-Cap Core Funds | 220 | 96.36 | 94.09 |
| Multi-Cap Value Funds | 228 | 96.49 | 92.98 |
| Real Estate Funds | 77 | 88.31 | 100.00 |
| 3-Year | | | |
| All Domestic Funds | 2138 | 91.16 | 80.31 |
| All Large-Cap Funds | 738 | 91.87 | 84.69 |
| All Mid-Cap Funds | 276 | 92.39 | 71.74 |
| All Small-Cap Funds | 511 | 91.59 | 86.11 |
| All Multi-Cap Funds | 613 | 89.40 | 74.06 |
| Large-Cap Growth Funds | 235 | 91.91 | 91.06 |
| Large-Cap Core Funds | 226 | 91.59 | 80.97 |
| Large-Cap Value Funds | 277 | 92.06 | 82.31 |
| Mid-Cap Growth Funds | 121 | 92.56 | 84.30 |
| Mid-Cap Core Funds | 85 | 94.12 | 72.94 |
| Mid-Cap Value Funds | 70 | 90.00 | 48.57 |
| Small-Cap Growth Funds | 204 | 91.18 | 83.33 |
| Small-Cap Core Funds | 240 | 91.67 | 96.25 |
| Small-Cap Value Funds | 67 | 92.54 | 58.21 |
| Multi-Cap Growth Funds | 178 | 87.64 | 60.67 |
| Multi-Cap Core Funds | 225 | 86.22 | 75.56 |
| Multi-Cap Value Funds | 210 | 94.29 | 83.81 |
| Real Estate Funds | 81 | 79.01 | 100.00 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 2: Survivorship and Style Consistency of U.S. Equity Funds (cont.)

| Fund Category | Number of Funds at Start | Survivorship (%) | Style Consistency |
|------------------------|--------------------------|------------------|-------------------|
| 5-Year | | | |
| All Domestic Funds | 2168 | 83.76 | 70.71 |
| All Large-Cap Funds | 754 | 86.87 | 73.74 |
| All Mid-Cap Funds | 300 | 84.00 | 61.67 |
| All Small-Cap Funds | 540 | 81.48 | 81.11 |
| All Multi-Cap Funds | 574 | 81.71 | 61.67 |
| Large-Cap Growth Funds | 222 | 89.19 | 85.59 |
| Large-Cap Core Funds | 219 | 88.13 | 70.32 |
| Large-Cap Value Funds | 313 | 84.35 | 67.73 |
| Mid-Cap Growth Funds | 136 | 85.29 | 69.85 |
| Mid-Cap Core Funds | 108 | 81.48 | 55.56 |
| Mid-Cap Value Funds | 56 | 85.71 | 53.57 |
| Small-Cap Growth Funds | 201 | 83.58 | 84.08 |
| Small-Cap Core Funds | 262 | 80.53 | 86.64 |
| Small-Cap Value Funds | 77 | 79.22 | 54.55 |
| Multi-Cap Growth Funds | 191 | 84.29 | 48.17 |
| Multi-Cap Core Funds | 228 | 81.58 | 64.04 |
| Multi-Cap Value Funds | 155 | 78.71 | 74.84 |
| Real Estate Funds | 82 | 73.17 | 100.00 |
| 10-Year | | | |
| All Domestic Funds | 2514 | 63.92 | 56.25 |
| All Large-Cap Funds | 958 | 65.14 | 62.21 |
| All Mid-Cap Funds | 366 | 60.66 | 46.72 |
| All Small-Cap Funds | 585 | 63.42 | 68.55 |
| All Multi-Cap Funds | 605 | 64.46 | 40.66 |
| Large-Cap Growth Funds | 277 | 65.70 | 74.37 |
| Large-Cap Core Funds | 325 | 65.54 | 55.08 |
| Large-Cap Value Funds | 356 | 64.33 | 59.27 |
| Mid-Cap Growth Funds | 172 | 65.12 | 54.65 |
| Mid-Cap Core Funds | 125 | 51.20 | 42.40 |
| Mid-Cap Value Funds | 69 | 66.67 | 34.78 |
| Small-Cap Growth Funds | 203 | 65.02 | 82.76 |
| Small-Cap Core Funds | 260 | 61.15 | 70.77 |
| Small-Cap Value Funds | 122 | 65.57 | 40.16 |
| Multi-Cap Growth Funds | 200 | 67.00 | 37.00 |
| Multi-Cap Core Funds | 291 | 63.57 | 39.52 |
| Multi-Cap Value Funds | 114 | 62.28 | 50.00 |
| Real Estate Funds | 91 | 62.64 | 96.70 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 2: Survivorship and Style Consistency of U.S. Equity Funds (cont.)

| Fund Category | Number of Funds at Start | Survivorship (%) | Style Consistency |
|------------------------|--------------------------|------------------|-------------------|
| 15-Year | | | |
| All Domestic Funds | 2938 | 49.49 | 44.83 |
| All Large-Cap Funds | 1067 | 48.17 | 56.61 |
| All Mid-Cap Funds | 472 | 48.09 | 36.65 |
| All Small-Cap Funds | 644 | 51.86 | 52.95 |
| All Multi-Cap Funds | 755 | 50.20 | 26.36 |
| Large-Cap Growth Funds | 367 | 44.41 | 63.76 |
| Large-Cap Core Funds | 375 | 48.53 | 55.73 |
| Large-Cap Value Funds | 325 | 52.00 | 49.54 |
| Mid-Cap Growth Funds | 217 | 45.16 | 47.93 |
| Mid-Cap Core Funds | 153 | 47.71 | 32.68 |
| Mid-Cap Value Funds | 102 | 54.90 | 18.63 |
| Small-Cap Growth Funds | 237 | 48.95 | 70.46 |
| Small-Cap Core Funds | 271 | 53.14 | 51.29 |
| Small-Cap Value Funds | 136 | 54.41 | 25.74 |
| Multi-Cap Growth Funds | 217 | 49.31 | 27.65 |
| Multi-Cap Core Funds | 378 | 53.17 | 26.98 |
| Multi-Cap Value Funds | 160 | 44.38 | 23.13 |
| Real Estate Funds | 100 | 61.00 | 79.00 |
| 20-Year | | | |
| All Domestic Funds | 2376 | 36.41 | 48.53 |
| All Large-Cap Funds | 774 | 32.95 | 59.30 |
| All Mid-Cap Funds | 397 | 37.03 | 41.81 |
| All Small-Cap Funds | 522 | 38.51 | 56.13 |
| All Multi-Cap Funds | 683 | 38.36 | 34.41 |
| Large-Cap Growth Funds | 226 | 26.11 | 68.58 |
| Large-Cap Core Funds | 327 | 30.89 | 57.19 |
| Large-Cap Value Funds | 221 | 42.99 | 52.94 |
| Mid-Cap Growth Funds | 188 | 33.51 | 53.19 |
| Mid-Cap Core Funds | 123 | 33.33 | 40.65 |
| Mid-Cap Value Funds | 86 | 50.00 | 18.60 |
| Small-Cap Growth Funds | 199 | 34.17 | 74.37 |
| Small-Cap Core Funds | 226 | 39.82 | 52.21 |
| Small-Cap Value Funds | 97 | 44.33 | 27.84 |
| Multi-Cap Growth Funds | 160 | 32.50 | 43.13 |
| Multi-Cap Core Funds | 339 | 40.71 | 32.15 |
| Multi-Cap Value Funds | 184 | 39.13 | 30.98 |
| Real Estate Funds | 81 | 43.21 | 80.25 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 3: Average U.S. Equity Fund Performance (Equal-Weighted)

| report 3. Average 0 | .o. Equity i a | ila i citotili | arice (Equai | weighted) | | |
|------------------------|----------------|----------------|--------------|-------------|-------------|-------------|
| Index/Fund Category | 1-Year (%) | 3-Year (%) | 5-Year (%) | 10-Year (%) | 15-Year (%) | 20-Year (%) |
| S&P Composite 1500 | 23.95 | 8.54 | 14.13 | 12.79 | 13.72 | 10.32 |
| All Domestic Funds | 17.24 | 4.42 | 10.42 | 9.47 | 10.68 | 8.04 |
| S&P 500 | 25.02 | 8.94 | 14.53 | 13.10 | 13.88 | 10.35 |
| All Large-Cap Funds | 21.32 | 6.38 | 11.72 | 10.38 | 11.16 | 8.48 |
| S&P MidCap 400 | 13.93 | 4.87 | 10.34 | 9.68 | 11.92 | 9.69 |
| All Mid-Cap Funds | 13.16 | 2.05 | 9.06 | 8.62 | 10.43 | 8.17 |
| S&P SmallCap 600 | 8.70 | 1.91 | 8.36 | 8.96 | 11.66 | 8.99 |
| All Small-Cap Funds | 11.74 | 1.38 | 8.18 | 7.82 | 9.98 | 7.41 |
| S&P Composite 1500 | 23.95 | 8.54 | 14.13 | 12.79 | 13.72 | 10.32 |
| All Multi-Cap Funds | 18.52 | 5.30 | 10.94 | 9.77 | 10.53 | 7.79 |
| Large-Cap | | | | | | |
| S&P 500 Growth | 36.07 | 7.70 | 17.09 | 15.29 | 15.54 | 11.87 |
| Large-Cap Growth Funds | 29.16 | 6.56 | 14.85 | 13.28 | 12.97 | 9.88 |
| S&P 500 | 25.02 | 8.94 | 14.53 | 13.10 | 13.88 | 10.35 |
| Large-Cap Core Funds | 21.13 | 6.57 | 12.03 | 10.26 | 11.10 | 8.66 |
| S&P 500 Value | 12.29 | 9.16 | 10.49 | 10.01 | 11.60 | 8.36 |
| Large-Cap Value Funds | 14.39 | 5.87 | 9.02 | 8.20 | 9.58 | 7.14 |
| Mid-Cap | | | | | | |
| S&P MidCap 400 Growth | 15.94 | 3.35 | 10.01 | 9.86 | 12.10 | 9.95 |
| Mid-Cap Growth Funds | 14.84 | -0.88 | 9.09 | 9.54 | 10.91 | 8.68 |
| S&P MidCap 400 | 13.93 | 4.87 | 10.34 | 9.68 | 11.92 | 9.69 |
| Mid-Cap Core Funds | 12.35 | 3.61 | 8.78 | 7.99 | 10.16 | 7.85 |
| S&P MidCap 400 Value | 11.71 | 6.26 | 10.21 | 9.13 | 11.50 | 9.23 |
| Mid-Cap Value Funds | 10.79 | 5.10 | 8.99 | 7.51 | 9.80 | 7.67 |
| | | | | | | |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Returns shown are annualized for periods greater than one year. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 3: Average U.S. Equity Fund Performance (Equal-Weighted) (cont.)

| Index/Fund Category | 1-Year (%) | 3-Year (%) | 5-Year (%) | 10-Year (%) | 15-Year (%) | 20-Year (%) |
|------------------------------|------------|------------|------------|-------------|-------------|-------------|
| Small-Cap | | | | | | |
| S&P SmallCap 600 Growth | 9.63 | 0.44 | 8.24 | 9.55 | 12.18 | 9.51 |
| Small-Cap Growth Funds | 14.38 | -1.39 | 7.70 | 8.84 | 10.72 | 7.81 |
| S&P SmallCap 600 | 8.70 | 1.91 | 8.36 | 8.96 | 11.66 | 8.99 |
| Small-Cap Core Funds | 10.47 | 2.57 | 8.12 | 7.18 | 9.57 | 7.20 |
| S&P SmallCap 600 Value | 7.56 | 3.21 | 8.10 | 8.18 | 11.03 | 8.37 |
| Small-Cap Value Funds | 8.97 | 5.09 | 9.00 | 7.25 | 9.49 | 7.14 |
| Multi-Cap | | | | | | |
| S&P Composite 1500 Growth | 34.15 | 7.28 | 16.48 | 14.83 | 15.28 | 11.60 |
| Multi-Cap Growth Funds | 26.39 | 4.10 | 12.47 | 11.81 | 11.81 | 9.04 |
| S&P Composite 1500 | 23.95 | 8.54 | 14.13 | 12.79 | 13.72 | 10.32 |
| Multi-Cap Core Funds | 18.40 | 5.39 | 10.74 | 8.95 | 10.10 | 7.39 |
| S&P Composite 1500 Value | 12.15 | 8.85 | 10.44 | 9.91 | 11.60 | 8.58 |
| Multi-Cap Value Funds | 13.70 | 5.93 | 9.18 | 8.09 | 9.62 | 7.16 |
| Real Estate | | | | | | |
| S&P United States REIT | 8.44 | -2.28 | 4.30 | 5.55 | 9.24 | 6.89 |
| Real Estate Funds | 6.58 | -4.27 | 3.16 | 4.61 | 7.58 | 5.09 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Returns shown are annualized for periods greater than one year. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 4: Average U.S. Equity Fund Performance (Asset-Weighted)

| Index/Fund Category | 1-Year (%) | 3-Year (%) | 5-Year (%) | 10-Year (%) | 15-Year (%) | 20-Year (%) |
|-------------------------|------------|------------|------------|-------------|-------------|-------------|
| S&P Composite 1500 | 23.95 | 8.54 | 14.13 | 12.79 | 13.72 | 10.32 |
| All Domestic Funds | 21.34 | 6.32 | 12.37 | 11.26 | 12.00 | 8.95 |
| S&P 500 | 25.02 | 8.94 | 14.53 | 13.10 | 13.88 | 10.35 |
| All Large-Cap Funds | 24.24 | 7.41 | 13.22 | 11.89 | 12.35 | 9.09 |
| S&P MidCap 400 | 13.93 | 4.87 | 10.34 | 9.68 | 11.92 | 9.69 |
| All Mid-Cap Funds | 12.12 | 1.55 | 8.92 | 9.04 | 10.65 | 8.37 |
| S&P SmallCap 600 | 8.70 | 1.91 | 8.36 | 8.96 | 11.66 | 8.99 |
| All Small-Cap Funds | 11.22 | 1.36 | 8.29 | 8.65 | 10.63 | 8.30 |
| S&P Composite 1500 | 23.95 | 8.54 | 14.13 | 12.79 | 13.72 | 10.32 |
| All Multi-Cap Funds | 19.11 | 6.38 | 12.20 | 11.16 | 12.09 | 9.05 |
| Large-Cap | | | | | | |
| S&P 500 Growth | 36.07 | 7.70 | 17.09 | 15.29 | 15.54 | 11.87 |
| Large-Cap Growth Funds | 31.42 | 7.75 | 16.03 | 14.52 | 14.30 | 10.67 |
| S&P 500 | 25.02 | 8.94 | 14.53 | 13.10 | 13.88 | 10.35 |
| Large-Cap Core Funds | 24.00 | 8.12 | 12.65 | 11.49 | 11.87 | 9.15 |
| S&P 500 Value | 12.29 | 9.16 | 10.49 | 10.01 | 11.60 | 8.36 |
| Large-Cap Value Funds | 15.27 | 6.55 | 10.05 | 9.30 | 10.98 | 8.36 |
| Mid-Cap | | | | | | |
| S&P MidCap 400 Growth | 15.94 | 3.35 | 10.01 | 9.86 | 12.10 | 9.95 |
| Mid-Cap Growth Funds | 12.72 | -1.50 | 8.61 | 9.94 | 11.60 | 9.12 |
| S&P MidCap 400 | 13.93 | 4.87 | 10.34 | 9.68 | 11.92 | 9.69 |
| Mid-Cap Core Funds | 13.04 | 3.78 | 9.44 | 8.06 | 10.20 | 7.73 |
| S&P MidCap 400 Value | 11.71 | 6.26 | 10.21 | 9.13 | 11.50 | 9.23 |
| Mid-Cap Value Funds | 9.93 | 4.80 | 8.95 | 8.12 | 9.88 | 7.92 |
| Small-Cap | | | | | | |
| S&P SmallCap 600 Growth | 9.63 | 0.44 | 8.24 | 9.55 | 12.18 | 9.51 |
| Small-Cap Growth Funds | 12.71 | -0.68 | 7.59 | 9.47 | 11.81 | 8.85 |
| S&P SmallCap 600 | 8.70 | 1.91 | 8.36 | 8.96 | 11.66 | 8.99 |
| Small-Cap Core Funds | 10.49 | 3.00 | 8.82 | 7.91 | 10.08 | 7.94 |
| S&P SmallCap 600 Value | 7.56 | 3.21 | 8.10 | 8.18 | 11.03 | 8.37 |
| Small-Cap Value Funds | 8.71 | 5.99 | 9.38 | 7.86 | 9.87 | 7.96 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Returns shown are annualized for periods greater than one year. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 4: Average U.S. Equity Fund Performance (Asset-Weighted) (cont.)

| Index/Fund Category | 1-Year (%) | 3-Year (%) | 5-Year (%) | 10-Year (%) | 15-Year (%) | 20-Year (%) |
|---------------------------|------------|------------|------------|-------------|-------------|-------------|
| Multi-Cap | | | | | | |
| S&P Composite 1500 Growth | 34.15 | 7.28 | 16.48 | 14.83 | 15.28 | 11.60 |
| Multi-Cap Growth Funds | 26.06 | 5.59 | 14.39 | 13.66 | 13.90 | 11.06 |
| S&P Composite 1500 | 23.95 | 8.54 | 14.13 | 12.79 | 13.72 | 10.32 |
| Multi-Cap Core Funds | 18.37 | 6.31 | 11.42 | 9.79 | 11.24 | 8.15 |
| S&P Composite 1500 Value | 12.15 | 8.85 | 10.44 | 9.91 | 11.60 | 8.58 |
| Multi-Cap Value Funds | 14.07 | 6.93 | 9.65 | 8.22 | 10.37 | 7.90 |
| Real Estate | | | | | | |
| S&P United States REIT | 8.44 | -2.28 | 4.30 | 5.55 | 9.24 | 6.89 |
| Real Estate Funds | 5.96 | -3.88 | 2.97 | 4.73 | 7.80 | 5.61 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Returns shown are annualized for periods greater than one year. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 5: Quartile Breakpoints of U.S. Equity Funds

| Fund Category | Third Quartile (%) | Second Quartile (%) | First Quartile (%) |
|------------------------|--------------------|---------------------|--------------------|
| 1-Year | | | |
| All Domestic Funds | 10.98 | 15.54 | 23.24 |
| All Large-Cap Funds | 14.89 | 21.68 | 27.63 |
| All Mid-Cap Funds | 9.12 | 12.07 | 16.04 |
| All Small-Cap Funds | 8.48 | 11.30 | 14.56 |
| All Multi-Cap Funds | 12.83 | 17.29 | 23.38 |
| Large-Cap Growth Funds | 26.32 | 30.28 | 33.24 |
| Large-Cap Core Funds | 18.18 | 22.62 | 24.96 |
| Large-Cap Value Funds | 11.33 | 14.44 | 17.23 |
| Mid-Cap Growth Funds | 9.23 | 14.10 | 19.48 |
| Mid-Cap Core Funds | 9.79 | 11.88 | 14.88 |
| Mid-Cap Value Funds | 8.49 | 9.12 | 13.42 |
| Small-Cap Growth Funds | 10.42 | 13.71 | 18.41 |
| Small-Cap Core Funds | 7.67 | 10.38 | 13.20 |
| Small-Cap Value Funds | 5.40 | 8.64 | 11.67 |
| Multi-Cap Growth Funds | 19.31 | 25.25 | 33.84 |
| Multi-Cap Core Funds | 13.62 | 19.84 | 23.14 |
| Multi-Cap Value Funds | 10.94 | 13.52 | 16.75 |
| Real Estate Funds | 4.98 | 6.40 | 7.69 |
| 3-Year | | | |
| All Domestic Funds | 2.09 | 5.01 | 7.43 |
| All Large-Cap Funds | 4.81 | 6.90 | 8.41 |
| All Mid-Cap Funds | -0.28 | 2.58 | 5.12 |
| All Small-Cap Funds | -0.60 | 1.96 | 4.11 |
| All Multi-Cap Funds | 3.28 | 5.87 | 7.76 |
| Large-Cap Growth Funds | 5.88 | 7.56 | 8.64 |
| Large-Cap Core Funds | 5.29 | 7.53 | 8.71 |
| Large-Cap Value Funds | 4.19 | 5.89 | 7.21 |
| Mid-Cap Growth Funds | -3.02 | -0.30 | 1.92 |
| Mid-Cap Core Funds | 1.37 | 3.93 | 5.35 |
| Mid-Cap Value Funds | 3.68 | 5.20 | 6.11 |
| Small-Cap Growth Funds | -4.19 | -0.62 | 1.21 |
| Small-Cap Core Funds | 1.13 | 2.91 | 4.62 |
| Small-Cap Value Funds | 2.90 | 4.59 | 6.61 |
| Multi-Cap Growth Funds | 1.07 | 4.22 | 7.63 |
| Multi-Cap Core Funds | 3.74 | 6.21 | 7.90 |
| Multi-Cap Value Funds | 4.31 | 6.25 | 7.76 |
| Real Estate Funds | -5.36 | -4.06 | -3.17 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Returns shown are annualized for periods greater than one year. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 5: Quartile Breakpoints of U.S. Equity Funds (cont.)

| Fund Category | Third Quartile (%) | Second Quartile (%) | First Quartile (%) |
|------------------------|--------------------|---------------------|--------------------|
| 5-Year | | | |
| All Domestic Funds | 7.93 | 10.06 | 12.96 |
| All Large-Cap Funds | 9.24 | 12.06 | 14.77 |
| All Mid-Cap Funds | 7.50 | 9.01 | 10.21 |
| All Small-Cap Funds | 6.89 | 8.30 | 10.06 |
| All Multi-Cap Funds | 8.94 | 10.96 | 13.63 |
| Large-Cap Growth Funds | 13.93 | 15.51 | 16.76 |
| Large-Cap Core Funds | 11.15 | 12.58 | 14.35 |
| Large-Cap Value Funds | 7.71 | 9.06 | 10.43 |
| Mid-Cap Growth Funds | 7.62 | 8.80 | 10.31 |
| Mid-Cap Core Funds | 7.38 | 9.07 | 10.12 |
| Mid-Cap Value Funds | 7.56 | 8.77 | 9.85 |
| Small-Cap Growth Funds | 6.12 | 7.68 | 9.79 |
| Small-Cap Core Funds | 6.98 | 8.58 | 10.06 |
| Small-Cap Value Funds | 7.68 | 8.68 | 10.79 |
| Multi-Cap Growth Funds | 10.55 | 13.42 | 16.08 |
| Multi-Cap Core Funds | 9.14 | 11.57 | 13.34 |
| Multi-Cap Value Funds | 7.36 | 9.24 | 10.56 |
| Real Estate Funds | 2.62 | 3.34 | 4.19 |
| 10-Year | | | |
| All Domestic Funds | 7.89 | 9.31 | 11.78 |
| All Large-Cap Funds | 8.68 | 10.87 | 12.99 |
| All Mid-Cap Funds | 7.68 | 9.03 | 10.28 |
| All Small-Cap Funds | 7.01 | 8.10 | 9.18 |
| All Multi-Cap Funds | 8.01 | 9.80 | 12.25 |
| Large-Cap Growth Funds | 13.20 | 14.45 | 15.25 |
| Large-Cap Core Funds | 9.92 | 11.40 | 12.13 |
| Large-Cap Value Funds | 7.52 | 8.52 | 9.36 |
| Mid-Cap Growth Funds | 9.18 | 9.93 | 10.98 |
| Mid-Cap Core Funds | 7.48 | 8.02 | 9.09 |
| Mid-Cap Value Funds | 6.92 | 7.95 | 8.66 |
| Small-Cap Growth Funds | 7.92 | 8.69 | 10.11 |
| Small-Cap Core Funds | 6.91 | 7.82 | 8.70 |
| Small-Cap Value Funds | 6.53 | 7.36 | 8.27 |
| Multi-Cap Growth Funds | 10.81 | 12.68 | 14.43 |
| Multi-Cap Core Funds | 7.93 | 9.24 | 11.22 |
| Multi-Cap Value Funds | 7.39 | 8.15 | 8.93 |
| Real Estate Funds | 4.35 | 4.98 | 5.71 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Returns shown are annualized for periods greater than one year. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 5: Quartile Breakpoints of U.S. Equity Funds (cont.)

| Fund Category | Third Quartile (%) | Second Quartile (%) | First Quartile (%) |
|------------------------|--------------------|---------------------|--------------------|
| 15-Year | | | |
| All Domestic Funds | 9.84 | 11.05 | 12.59 |
| All Large-Cap Funds | 10.17 | 11.87 | 13.59 |
| All Mid-Cap Funds | 10.01 | 10.91 | 11.97 |
| All Small-Cap Funds | 9.52 | 10.48 | 11.39 |
| All Multi-Cap Funds | 9.47 | 11.17 | 13.12 |
| Large-Cap Growth Funds | 13.08 | 14.29 | 14.93 |
| Large-Cap Core Funds | 10.61 | 12.09 | 12.95 |
| Large-Cap Value Funds | 9.38 | 10.17 | 10.90 |
| Mid-Cap Growth Funds | 10.75 | 11.80 | 12.43 |
| Mid-Cap Core Funds | 9.94 | 10.42 | 11.18 |
| Mid-Cap Value Funds | 9.24 | 10.29 | 11.19 |
| Small-Cap Growth Funds | 10.11 | 11.17 | 12.19 |
| Small-Cap Core Funds | 9.16 | 10.18 | 11.29 |
| Small-Cap Value Funds | 9.45 | 10.15 | 10.76 |
| Multi-Cap Growth Funds | 11.35 | 13.44 | 15.08 |
| Multi-Cap Core Funds | 8.99 | 10.77 | 12.51 |
| Multi-Cap Value Funds | 8.95 | 10.18 | 10.96 |
| Real Estate Funds | 6.57 | 8.30 | 8.92 |
| 20-Year | | | |
| All Domestic Funds | 7.36 | 8.48 | 9.64 |
| All Large-Cap Funds | 7.58 | 9.04 | 10.34 |
| All Mid-Cap Funds | 7.79 | 8.58 | 9.64 |
| All Small-Cap Funds | 7.36 | 8.15 | 8.96 |
| All Multi-Cap Funds | 6.93 | 8.14 | 9.74 |
| Large-Cap Growth Funds | 9.65 | 10.80 | 11.27 |
| Large-Cap Core Funds | 8.39 | 9.33 | 10.15 |
| Large-Cap Value Funds | 6.86 | 7.63 | 8.59 |
| Mid-Cap Growth Funds | 8.27 | 9.36 | 10.31 |
| Mid-Cap Core Funds | 7.33 | 8.52 | 8.85 |
| Mid-Cap Value Funds | 7.53 | 8.01 | 8.66 |
| Small-Cap Growth Funds | 8.24 | 8.89 | 9.46 |
| Small-Cap Core Funds | 7.27 | 7.91 | 8.56 |
| Small-Cap Value Funds | 7.09 | 7.61 | 8.05 |
| Multi-Cap Growth Funds | 8.87 | 10.44 | 11.29 |
| Multi-Cap Core Funds | 6.71 | 7.95 | 9.63 |
| Multi-Cap Value Funds | 6.80 | 7.59 | 8.53 |
| Real Estate Funds | 4.35 | 5.94 | 6.62 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Returns shown are annualized for periods greater than one year. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 6a: Percentage of International Equity Funds Underperforming Their Benchmarks (Based on Absolute Return)

| | (= 0.000 0.00 | | | | | | |
|-------------------------------------|---|------------|------------|------------|-------------|-------------|-------------|
| Fund Category | Comparison Index | 1-Year (%) | 3-Year (%) | 5-Year (%) | 10-Year (%) | 15-Year (%) | 20-Year (%) |
| Global Funds | S&P World | 83.94 | 90.64 | 88.28 | 90.00 | 92.50 | n/a |
| International Funds | S&P World Ex-U.S. | 69.02 | 78.09 | 81.50 | 85.29 | 88.25 | n/a |
| International Small-Cap Funds | S&P Developed Ex-U.S. SmallCap | 43.42 | 63.75 | 51.72 | 72.50 | 67.35 | 73.17 |
| Emerging Markets Funds | S&P/IFCI Composite | 71.50 | 77.23 | 75.24 | 87.39 | 88.24 | 95.38 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 6b: Percentage of International Equity Funds Underperforming Their Benchmarks (Based on Risk-Adjusted Return)

| Fund Category | Comparison Index | 3-Year (%) | 5-Year (%) | 10-Year (%) | 15-Year (%) | 20-Year (%) |
|-------------------------------------|-----------------------------------|------------|------------|-------------|-------------|-------------|
| Global Funds | S&P World | 90.21 | 93.72 | 92.31 | 97.50 | n/a |
| International Funds | S&P World Ex-U.S. | 79.60 | 86.75 | 87.01 | 89.21 | n/a |
| International Small-Cap Funds | S&P Developed Ex-U.S. SmallCap | - | 52.87 | 72.50 | 67.35 | 75.61 |
| Emerging Markets Funds | S&P/IFCI Composite | - | 76.70 | 88.66 | 90.44 | 96.92 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 7: Survivorship of International Equity Funds

| Fund Category | Number of Funds at Start | Survivorship (%) | Style Consistency (%) |
|-------------------------------|--------------------------|------------------|-----------------------|
| 1-Year | | | |
| Global Funds | 249 | 92.77 | 87.55 |
| International Funds | 410 | 93.90 | 88.54 |
| International Small-Cap Funds | 76 | 98.68 | 93.42 |
| Emerging Markets Funds | 214 | 94.86 | 100.00 |
| 3-Year | | | |
| Global Funds | 235 | 86.81 | 70.21 |
| International Funds | 397 | 86.90 | 66.50 |
| International Small-Cap Funds | 80 | 88.75 | 80.00 |
| Emerging Markets Funds | 202 | 85.15 | 100.00 |
| 5-Year | | | |
| Global Funds | 239 | 77.82 | 57.32 |
| International Funds | 400 | 80.00 | 52.00 |
| International Small-Cap Funds | 87 | 77.01 | 70.11 |
| Emerging Markets Funds | 206 | 72.82 | 99.03 |
| 10-Year | | | |
| Global Funds | 260 | 59.23 | 36.54 |
| International Funds | 408 | 63.73 | 39.46 |
| International Small-Cap Funds | 80 | 58.75 | 62.50 |
| Emerging Markets Funds | 238 | 53.78 | 92.86 |
| 15-Year | | | |
| Global Funds | 160 | 42.50 | 21.88 |
| International Funds | 315 | 47.30 | 25.40 |
| International Small-Cap Funds | 49 | 61.22 | 46.94 |
| Emerging Markets Funds | 136 | 56.62 | 89.71 |
| 20-Year | | | |
| Global Funds | 112 | 39.29 | 21.43 |
| International Funds | 270 | 35.93 | 28.52 |
| International Small-Cap Funds | 41 | 51.22 | 43.90 |
| Emerging Markets Funds | 65 | 52.31 | 92.31 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Returns shown are annualized for periods greater than one year. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 8: Average International Equity Fund Performance (Equal-Weighted)

| Index/Fund Category | 1-Year (%) | 3-Year (%) | 5-Year (%) | 10-Year (%) | 15-Year (%) | 20-Year (%) |
|--------------------------------|------------|------------|------------|-------------|-------------|-------------|
| S&P World | 19.46 | 6.82 | 11.62 | 10.46 | 10.56 | n/a |
| Global Funds | 13.31 | 2.66 | 8.23 | 7.73 | 7.96 | 6.61 |
| S&P World Ex-U.S. | 5.80 | 2.39 | 5.69 | 5.86 | 5.82 | n/a |
| International Funds | 4.54 | -0.09 | 3.99 | 4.71 | 4.70 | 4.38 |
| S&P Developed Ex-U.S. SmallCap | 0.39 | -3.45 | 2.42 | 5.25 | 6.33 | 6.04 |
| International Small-Cap Funds | 1.77 | -4.02 | 2.70 | 4.87 | 6.08 | 5.82 |
| S&P/IFCI Composite | 7.86 | -0.82 | 2.88 | 4.57 | 3.94 | 6.94 |
| Emerging Markets Funds | 5.83 | -3.03 | 1.57 | 3.03 | 2.58 | 5.15 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Returns shown are annualized for periods greater than one year. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 9: Average International Equity Fund Performance (Asset-Weighted)

| toport or Avorago international Equity i and i orior manoo (Accout ivelginou) | | | | | | |
|---|------------|------------|------------|-------------|-------------|-------------|
| Index/Fund Category | 1-Year (%) | 3-Year (%) | 5-Year (%) | 10-Year (%) | 15-Year (%) | 20-Year (%) |
| S&P World | 19.46 | 6.82 | 11.62 | 10.46 | 10.56 | n/a |
| Global Funds | 15.41 | 3.62 | 9.08 | 8.56 | 8.93 | 7.59 |
| S&P World Ex-U.S. | 5.80 | 2.39 | 5.69 | 5.86 | 5.82 | n/a |
| International Funds | 4.89 | -0.32 | 4.39 | 5.03 | 5.50 | 5.26 |
| S&P Developed Ex-U.S. SmallCap | 0.39 | -3.45 | 2.42 | 5.25 | 6.33 | 6.04 |
| International Small-Cap Funds | 3.36 | -3.34 | 3.77 | 5.80 | 6.80 | 6.34 |
| S&P/IFCI Composite | 7.86 | -0.82 | 2.88 | 4.57 | 3.94 | 6.94 |
| Emerging Markets Funds | 6.17 | -2.93 | 1.89 | 3.99 | 3.70 | 6.05 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Returns shown are annualized for periods greater than one year. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 10: Quartile Breakpoints of International Equity Funds

| Fund Category | Third Quartile (%) | Second Quartile (%) | First Quartile (%) |
|-------------------------------|--------------------|---------------------|--------------------|
| 1-Year | | | |
| Global Funds | 8.98 | 13.37 | 17.09 |
| International Funds | 2.45 | 4.49 | 6.68 |
| International Small-Cap Funds | -2.33 | 1.45 | 4.49 |
| Emerging Markets Funds | 3.42 | 6.46 | 8.66 |
| 3-Year | | | |
| Global Funds | 1.22 | 3.34 | 5.46 |
| International Funds | -1.71 | 0.31 | 2.40 |
| International Small-Cap Funds | -7.38 | -3.91 | -0.86 |
| Emerging Markets Funds | -5.52 | -2.75 | -0.45 |
| 5-Year | | | |
| Global Funds | 7.00 | 8.87 | 10.42 |
| International Funds | 3.13 | 4.22 | 5.53 |
| International Small-Cap Funds | 1.08 | 3.13 | 4.26 |
| Emerging Markets Funds | -0.20 | 1.68 | 3.75 |
| 10-Year | | | |
| Global Funds | 6.43 | 8.23 | 9.89 |
| International Funds | 4.08 | 4.74 | 5.73 |
| International Small-Cap Funds | 4.37 | 5.12 | 6.29 |
| Emerging Markets Funds | 2.34 | 3.26 | 4.32 |
| 15-Year | | | |
| Global Funds | 7.29 | 8.82 | 10.04 |
| International Funds | 4.36 | 5.12 | 5.81 |
| International Small-Cap Funds | 5.69 | 6.43 | 7.47 |
| Emerging Markets Funds | 2.06 | 2.72 | 3.38 |
| 20-Year | | | |
| Global Funds | 5.83 | 7.32 | 8.44 |
| International Funds | 4.02 | 4.79 | 5.60 |
| International Small-Cap Funds | 5.37 | 6.08 | 6.68 |
| Emerging Markets Funds | 4.76 | 5.27 | 6.30 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Returns shown are annualized for periods greater than one year. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 11a: Percentage of Fixed Income Funds Underperforming Their Benchmarks (Based on Absolute Return)

| (Dased Oil Absolute | Ketuiii) | 4. 7/ | 0.1/ | 5 W | 40 W | 45 W | 00.1/ |
|--|--|---------------|---------------|---------------|----------------|----------------|----------------|
| Fund Category | Comparison Index | 1-Year (%) | 3-Year (%) | 5-Year (%) | 10-Year (%) | 15-Year (%) | 20-Year (%) |
| General Government Funds | iBoxx \$ Domestic Sovereign & Sub-Sovereigns | 72.50 | 86.11 | 88.89 | 98.31 | 77.91 | - |
| Government Intermediate Funds | iBoxx \$ Domestic Sovereigns & Sub- Sovereigns 1-10Y | 94.74 | 95.00 | 95.45 | 94.12 | 90.91 | - |
| Government Short & Short-Intermediate Funds | iBoxx \$ Domestic Sovereigns & Sub-Sovereigns 1-5Y | 41.38 | 60.71 | 70.59 | 90.24 | 96.36 | - |
| General Investment- Grade Funds | iBoxx \$ Liquid Investment Grade | 30.38 | 34.44 | 57.89 | 81.63 | 90.08 | 95.04 |
| Investment-Grade Intermediate Funds | Bloomberg U.S. Aggregate | 24.20 | 53.38 | 42.36 | 61.33 | 59.57 | 78.79 |
| Investment-Grade Short & Intermediate Funds | iBoxx \$ Overall 1-5Y | 11.83 | 20.99 | 28.93 | 51.97 | 73.38 | - |
| General Bond Funds | iBoxx \$ Overall | 23.08 | 33.33 | 29.41 | 54.39 | 68.66 | - |
| High Yield Funds | iBoxx \$ Liquid High Yield | 65.88 | 69.88 | 54.22 | 79.39 | 76.29 | 79.86 |
| Mortgage-Backed Securities Funds | Bloomberg U.S. Aggregate Securitized - MBS | 36.36 | 42.11 | 51.92 | 76.27 | 79.69 | 92.86 |
| Inflation-Linked Funds | iBoxx TIPS Inflation-Linked | 51.92 | 40.82 | 56.25 | 86.21 | 96.55 | 95.83 |
| Global Income Funds | Bloomberg Global Aggregate | 31.37 | 47.42 | 51.92 | 61.60 | 64.65 | 79.25 |
| Emerging Market Debt Funds | Bloomberg Emerging Markets \$ Aggregate | 41.07 | 40.00 | 59.68 | 85.25 | 100.00 | 88.24 |
| General Municipal Debt Funds | S&P National AMT-Free Municipal Bond | 13.33 | 83.53 | 70.93 | 66.67 | 59.14 | - |
| California Municipal Debt Funds | S&P California AMT-Free Municipal Bond | 8.57 | 72.73 | 58.33 | 56.10 | 51.16 | - |
| New York Municipal Debt Funds | S&P New York AMT-Free Municipal Bond | 15.38 | 88.89 | 82.14 | 78.13 | 72.97 | - |
| Loan Participation Funds | Markit iBoxx \$ Leveraged Loans | 88.73 | 93.44 | 98.39 | 94.44 | 100.00 | - |

Source: S&P Dow Jones Indices LLC, CRSP, Bloomberg LLC. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 11b: Percentage of Fixed Income Funds Underperforming Their Benchmarks (Based on Risk-Adjusted Return)

| Fund Category | Comparison Index | 3-Year (%) | 5-Year (%) | 10-Year (%) | 15-Year (%) | 20-Year (%) |
|---|--|------------|------------|-------------|-------------|-------------|
| General Government Funds | iBoxx \$ Domestic Sovereign & Sub- Sovereigns | - | 88.89 | 96.61 | 95.35 | - |
| Government Intermediate Funds | iBoxx \$ Domestic Sovereigns & Sub- Sovereigns 1-10Y | 95.00 | 95.45 | 94.12 | 95.45 | - |
| Government Short & Short- Intermediate Funds | iBoxx \$ Domestic Sovereigns & Sub- Sovereigns 1-5Y | 60.71 | 58.82 | 87.80 | 89.09 | - |
| General Investment- Grade Funds | iBoxx \$ Liquid Investment Grade | - | - | 63.27 | 64.12 | 76.60 |
| Investment- Grade Intermediate Funds | Bloomberg U.S. Aggregate | - | - | 70.00 | 71.28 | 87.27 |
| Investment- Grade Short & Intermediate Funds | iBoxx \$ Overall 1-5Y | 22.22 | 37.74 | 55.92 | 74.82 | - |
| General Bond Funds | iBoxx \$ Overall | - | - | 54.39 | 65.67 | - |
| High Yield Funds | iBoxx \$ Liquid High Yield | 60.84 | 55.42 | 70.18 | 68.04 | - |
| Mortgage- Backed Securities Funds | Bloomberg U.S. Aggregate Securitized - MBS | - | - | 72.88 | 76.56 | 87.50 |
| Inflation-Linked Funds | iBoxx TIPS Inflation- Linked | - | 58.33 | 75.86 | 93.10 | 100.00 |
| Global Income Funds | Bloomberg Global Aggregate | - | - | 64.00 | 68.69 | 77.36 |
| Emerging Market Debt Funds | Bloomberg Emerging Markets \$ Aggregate | - | 67.74 | 91.80 | 100.00 | 100.00 |
| General Municipal Debt Funds | S&P National AMT- Free Municipal Bond | - | 81.40 | 87.78 | 84.95 | - |
| California Municipal Debt Funds | S&P California AMT- Free Municipal Bond | - | 72.22 | 92.68 | 95.35 | - |
| New York Municipal Debt Funds | S&P New York AMT-Free Municipal Bond | - | 100.00 | 93.75 | 100.00 | - |
| Loan Participation Funds | Markit iBoxx \$ Leveraged Loans | 93.44 | 79.03 | 90.74 | 100.00 | - |

Source: S&P Dow Jones Indices LLC, CRSP, Bloomberg LLC. Data as of Dec. 31, 2024. Results not shown for periods in which the benchmark return was negative. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 12: Survivorship and Style Consistency of Fixed Income Funds

| Fund Category | Number of Funds at Start | Survivorship (%) | Style Consistency (%) |
|---|--------------------------|------------------|-----------------------|
| 1-Year | | | |
| General Government Funds | 40 | 95.00 | 97.50 |
| Government Intermediate Funds | 19 | 100.00 | 100.00 |
| Government Short & Short-Intermediate Funds | 29 | 100.00 | 93.10 |
| General Investment-Grade Funds | 79 | 92.41 | 98.73 |
| Investment-Grade Intermediate Funds | 157 | 98.09 | 100.00 |
| Investment-Grade Short & Intermediate Funds | 169 | 95.27 | 99.41 |
| General Bond Funds | 39 | 94.87 | 87.18 |
| High Yield Funds | 170 | 96.47 | 98.82 |
| Mortgage-Backed Securities Funds | 66 | 98.48 | 100.00 |
| Inflation-Linked Funds | 52 | 98.08 | 100.00 |
| Global Income Funds | 102 | 95.10 | 98.04 |
| Emerging Market Debt Funds | 56 | 94.64 | 100.00 |
| General Municipal Debt Funds | 90 | 96.67 | 97.78 |
| California Municipal Debt Funds | 35 | 100.00 | 100.00 |
| New York Municipal Debt Funds | 26 | 96.15 | 100.00 |
| Loan Participation Funds | 71 | 98.59 | 97.18 |
| 3-Year | | | |
| General Government Funds | 36 | 83.33 | 97.22 |
| Government Intermediate Funds | 20 | 95.00 | 95.00 |
| Government Short & Short-Intermediate Funds | 28 | 92.86 | 92.86 |
| General Investment-Grade Funds | 90 | 78.89 | 93.33 |
| Investment-Grade Intermediate Funds | 148 | 89.19 | 99.32 |
| Investment-Grade Short & Intermediate Funds | 162 | 87.04 | 98.77 |
| General Bond Funds | 42 | 83.33 | 69.05 |
| High Yield Funds | 166 | 93.37 | 96.39 |
| Mortgage-Backed Securities Funds | 57 | 92.98 | 100.00 |
| Inflation-Linked Funds | 49 | 97.96 | 100.00 |
| Global Income Funds | 97 | 79.38 | 95.88 |
| Emerging Market Debt Funds | 65 | 76.92 | 100.00 |
| General Municipal Debt Funds | 85 | 91.76 | 100.00 |
| California Municipal Debt Funds | | | |
| California Muriicipai Debt i urius | 33 | 100.00 | 100.00 |
| New York Municipal Debt Funds | 33 27 | 100.00 92.59 | 100.00 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 12: Survivorship and Style Consistency of Fixed Income Funds (cont.)

| Fund Category | Number of Funds at Start | Survivorship (%) | Style Consistency (%) |
|---|-----------------------------|------------------|-----------------------|
| 5-Year | | | |
| General Government Funds | 36 | 75.00 | 97.22 |
| Government Intermediate Funds | 22 | 86.36 | 95.45 |
| Government Short & Short-Intermediate Funds | 34 | 82.35 | 82.35 |
| General Investment-Grade Funds | 95 | 70.53 | 90.53 |
| Investment-Grade Intermediate Funds | 144 | 85.42 | 96.53 |
| Investment-Grade Short & Intermediate Funds | 159 | 81.76 | 96.23 |
| General Bond Funds | 34 | 82.35 | 61.76 |
| High Yield Funds | 166 | 87.35 | 96.39 |
| Mortgage-Backed Securities Funds | 52 | 92.31 | 98.08 |
| Inflation-Linked Funds | 48 | 91.67 | 97.92 |
| Global Income Funds | 104 | 71.15 | 93.27 |
| Emerging Market Debt Funds | 62 | 72.58 | 100.00 |
| General Municipal Debt Funds | 86 | 84.88 | 96.51 |
| California Municipal Debt Funds | 36 | 91.67 | 97.22 |
| New York Municipal Debt Funds | 28 | 85.71 | 100.00 |
| Loan Participation Funds | 62 | 88.71 | 95.16 |
| 10-Year | | | |
| General Government Funds | 59 | 59.32 | 79.66 |
| Government Intermediate Funds | 17 | 47.06 | 88.24 |
| Government Short & Short-Intermediate Funds | 41 | 65.85 | 87.80 |
| General Investment-Grade Funds | 98 | 66.33 | 77.55 |
| Investment-Grade Intermediate Funds | 150 | 66.67 | 89.33 |
| Investment-Grade Short & Intermediate Funds | 152 | 73.68 | 90.13 |
| General Bond Funds | 57 | 56.14 | 40.35 |
| High Yield Funds | 228 | 69.30 | 77.19 |
| Mortgage-Backed Securities Funds | 59 | 71.19 | 88.14 |
| Inflation-Linked Funds | 58 | 63.79 | 96.55 |
| Global Income Funds | 125 | 55.20 | 80.80 |
| Emerging Market Debt Funds | 61 | 52.46 | 91.80 |
| General Municipal Debt Funds | 90 | 68.89 | 90.00 |
| California Municipal Debt Funds | 41 | 73.17 | 95.12 |
| | | | |
| New York Municipal Debt Funds | 32 | 68.75 | 96.88 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 12: Survivorship and Style Consistency of Fixed Income Funds (cont.)

| Fund Category | Number of Funds at Start | Survivorship (%) | Style Consistency (%) |
|---|-----------------------------|------------------|-----------------------|
| 15-Year | | | |
| General Government Funds | 86 | 54.65 | 62.79 |
| Government Intermediate Funds | 22 | 40.91 | 77.27 |
| Government Short & Short-Intermediate Funds | 55 | 45.45 | 74.55 |
| General Investment-Grade Funds | 131 | 58.78 | 58.02 |
| Investment-Grade Intermediate Funds | 188 | 52.13 | 65.96 |
| Investment-Grade Short & Intermediate Funds | 139 | 51.08 | 74.10 |
| General Bond Funds | 67 | 46.27 | 38.81 |
| High Yield Funds | 194 | 62.89 | 85.05 |
| Mortgage-Backed Securities Funds | 64 | 54.69 | 87.50 |
| Inflation-Linked Funds | 29 | 44.83 | 82.76 |
| Global Income Funds | 99 | 50.51 | 68.69 |
| Emerging Market Debt Funds | 26 | 61.54 | 57.69 |
| General Municipal Debt Funds | 93 | 56.99 | 81.72 |
| California Municipal Debt Funds | 43 | 67.44 | 90.70 |
| New York Municipal Debt Funds | 37 | 56.76 | 91.89 |
| Loan Participation Funds | 20 | 90.00 | 95.00 |
| 20-Year | | | |
| General Investment-Grade Funds | 141 | 33.33 | 60.99 |
| Investment-Grade Intermediate Funds | 165 | 36.97 | 72.73 |
| High Yield Funds | 144 | 46.53 | 83.33 |
| Mortgage-Backed Securities Funds | 56 | 42.86 | 83.93 |
| Inflation-Linked Funds | 24 | 45.83 | 91.67 |
| Global Income Funds | 53 | 37.74 | 69.81 |
| Emerging Market Debt Funds | 17 | 64.71 | 88.24 |
| General Municipal Debt Funds | 115 | 41.74 | 88.70 |
| California Municipal Debt Funds | 52 | 53.85 | 92.31 |
| New York Municipal Debt Funds | 45 | 48.89 | 86.67 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 13: Average Fixed Income Fund Performance (Equal-Weighted)

| Index/Fund Category | 1-Year (%) | 3-Year (%) | 5-Year (%) | 10-Year (%) | 15-Year (%) | 20-Year (%) |
|---|---------------|---------------|---------------|----------------|----------------|----------------|
| iBoxx \$ Domestic Sovereign & Sub-Sovereigns | 1.69 | -1.07 | 0.12 | 1.46 | 2.10 | - |
| General Government Funds | -0.85 | -4.62 | -1.93 | 0.04 | 1.56 | - |
| iBoxx \$ Domestic Sovereigns & Sub-Sovereigns 1-10Y | 2.93 | 0.07 | 0.76 | 1.52 | 1.91 | - |
| Government Intermediate Funds | 1.09 | -2.09 | -0.42 | 0.65 | 1.26 | - |
| iBoxx \$ Domestic Sovereigns & Sub-Sovereigns 1-5Y | 3.74 | 0.96 | 1.21 | 1.56 | 1.69 | - |
| Government Short & Short-Intermediate Funds | 3.75 | 0.82 | 0.96 | 1.05 | 1.21 | - |
| iBoxx \$ Liquid Investment Grade | 1.15 | -3.14 | -0.07 | 2.46 | 4.02 | 4.12 |
| General Investment-Grade Funds | 2.10 | -0.98 | 1.02 | 2.25 | 3.11 | 3.13 |
| Bloomberg U.S. Aggregate | 1.25 | -2.41 | -0.33 | 1.35 | 2.37 | 3.01 |
| Investment-Grade Intermediate Funds | 1.68 | -2.40 | -0.19 | 1.32 | 2.44 | 2.66 |
| iBoxx \$ Overall 1-5Y | 3.93 | 0.99 | 1.35 | 1.71 | 1.88 | - |
| Investment-Grade Short & Intermediate Funds | 5.10 | 1.92 | 1.90 | 1.83 | 2.03 | - |
| iBoxx \$ Overall | 1.35 | -2.55 | -0.26 | 1.44 | 2.46 | - |
| General Bond Funds | 3.17 | -0.95 | 0.51 | 1.88 | 2.86 | - |
| iBoxx \$ Liquid High Yield | 7.95 | 2.84 | 3.53 | 4.58 | 5.72 | - |
| High Yield Funds | 7.41 | 2.44 | 3.54 | 3.98 | 5.13 | 4.69 |
| Bloomberg U.S. Aggregate Securitized - MBS | 1.20 | -2.13 | -0.74 | 0.91 | 1.84 | 2.81 |
| Mortgage-Backed Securities Funds | 3.18 | -1.57 | -0.45 | 0.92 | 1.88 | 2.45 |
| iBoxx TIPS Inflation-Linked | 1.87 | -2.57 | 1.78 | 2.21 | 2.89 | 3.33 |
| Inflation-Linked Funds | 0.77 | -1.78 | 1.70 | 1.86 | 2.15 | 2.51 |
| Bloomberg Global Aggregate | -1.69 | -4.52 | -1.96 | 0.15 | 0.98 | 1.86 |
| Global Income Funds | 0.79 | -2.46 | -0.82 | 0.87 | 1.75 | 2.31 |
| Bloomberg Emerging Markets \$ Aggregate | 6.58 | -0.49 | 0.63 | 3.20 | 4.59 | 5.49 |
| Emerging Market Debt Funds | 6.55 | 0.02 | 0.37 | 2.19 | 2.42 | 3.59 |
| S&P National AMT-Free Municipal Bond | 1.32 | -0.36 | 1.07 | 2.23 | 3.12 | - |
| General Municipal Debt Funds | 2.14 | -1.13 | 0.67 | 1.88 | 2.79 | - |
| S&P California AMT-Free Municipal Bond | 1.42 | -0.39 | 0.95 | 2.15 | 3.46 | - |
| California Municipal Debt Funds | 2.33 | -1.09 | 0.59 | 1.93 | 3.30 | - |
| S&P New York AMT-Free Municipal Bond | 1.24 | -0.24 | 1.05 | 2.13 | 3.06 | - |
| New York Municipal Debt Funds | 1.58 | -1.12 | 0.61 | 1.86 | 2.79 | - |
| Markit iBoxx \$ Leveraged Loans | 9.11 | 6.77 | 5.53 | 4.78 | 4.97 | _ |
| Maria Book & Loveragea Leane | | | | _ | | |

Source: S&P Dow Jones Indices LLC, CRSP, Bloomberg LLC. Data as of Dec. 31, 2024. Returns shown are annualized for periods greater than one year. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 14: Average Fixed Income Fund Performance (Asset-Weighted)

| Index/Fund Category | 1-Year (%) | 3-Year (%) | 5-Year (%) | 10-Year (%) | 15-Year (%) | 20-Year (%) |
|---|---------------|---------------|---------------|----------------|----------------|----------------|
| iBoxx \$ Domestic Sovereign & Sub-Sovereigns | 1.69 | -1.07 | 0.12 | 1.46 | 2.10 | - |
| General Government Funds | -0.14 | -3.87 | -1.05 | 0.58 | 2.03 | - |
| iBoxx \$ Domestic Sovereigns & Sub-Sovereigns 1-10Y | 2.93 | 0.07 | 0.76 | 1.52 | 1.91 | - |
| Government Intermediate Funds | 0.84 | -2.57 | -0.47 | 0.63 | 1.90 | - |
| iBoxx \$ Domestic Sovereigns & Sub-Sovereigns 1-5Y | 3.74 | 0.96 | 1.21 | 1.56 | 1.69 | - |
| Government Short & Short-Intermediate Funds | 4.11 | 1.03 | 1.26 | 1.31 | 1.39 | - |
| iBoxx \$ Liquid Investment Grade | 1.15 | -3.14 | -0.07 | 2.46 | 4.02 | 4.12 |
| General Investment-Grade Funds | 0.77 | -3.94 | -0.52 | 1.83 | 2.98 | 3.20 |
| Bloomberg U.S. Aggregate | 1.25 | -2.41 | -0.33 | 1.35 | 2.37 | 3.01 |
| Investment-Grade Intermediate Funds | 2.06 | -1.75 | 0.48 | 1.91 | 2.97 | 3.42 |
| iBoxx \$ Overall 1-5Y | 3.93 | 0.99 | 1.35 | 1.71 | 1.88 | - |
| Investment-Grade Short & Intermediate Funds | 4.93 | 1.74 | 1.81 | 1.98 | 2.19 | - |
| iBoxx \$ Overall | 1.35 | -2.55 | -0.26 | 1.44 | 2.46 | - |
| General Bond Funds | 2.87 | 0.43 | 1.31 | 2.09 | 2.82 | - |
| iBoxx \$ Liquid High Yield | 7.95 | 2.84 | 3.53 | 4.58 | 5.72 | - |
| High Yield Funds | 7.85 | 2.86 | 4.03 | 4.51 | 5.69 | 5.25 |
| Bloomberg U.S. Aggregate Securitized – MBS | 1.20 | -2.13 | -0.74 | 0.91 | 1.84 | 2.81 |
| Mortgage-Backed Securities Funds | 1.98 | -1.54 | -0.36 | 0.98 | 2.01 | 2.78 |
| iBoxx TIPS Inflation-Linked | 1.87 | -2.57 | 1.78 | 2.21 | 2.89 | 3.33 |
| Inflation-Linked Funds | 1.73 | -2.15 | 1.50 | 1.91 | 2.48 | 2.89 |
| Bloomberg Global Aggregate | -1.69 | -4.52 | -1.96 | 0.15 | 0.98 | 1.86 |
| Global Income Funds | -0.55 | -3.65 | -1.95 | 0.21 | 1.64 | 2.62 |
| Bloomberg Emerging Markets \$ Aggregate | 6.58 | -0.49 | 0.63 | 3.20 | 4.59 | 5.49 |
| Emerging Market Debt Funds | 6.92 | 0.53 | 0.42 | 2.82 | 3.45 | 4.87 |
| S&P National AMT-Free Municipal Bond | 1.32 | -0.36 | 1.07 | 2.23 | 3.12 | - |
| General Municipal Debt Funds | 2.49 | -0.78 | 1.04 | 2.29 | 3.37 | - |
| S&P California AMT-Free Municipal Bond | 1.42 | -0.39 | 0.95 | 2.15 | 3.46 | - |
| California Municipal Debt Funds | 2.37 | -0.81 | 0.89 | 2.33 | 3.69 | - |
| S&P New York AMT-Free Municipal Bond | 1.24 | -0.24 | 1.05 | 2.13 | 3.06 | - |
| New York Municipal Debt Funds | 1.85 | -1.01 | 0.98 | 2.41 | 3.24 | - |
| Markit iBoxx \$ Leveraged Loans | 9.11 | 6.77 | 5.53 | 4.78 | 4.97 | - |
| Loan Participation Funds | 8.18 | 5.70 | 4.50 | 4.02 | 4.25 | - |
| | | | | | | |

Source: S&P Dow Jones Indices LLC, CRSP, Bloomberg LLC. Data as of Dec. 31, 2024. Returns shown are annualized for periods greater than one year. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 15: Quartile Breakpoints of Fixed Income Funds

| Fund Category | Third Quartile (%) | Second Quartile (%) | First Quartile (%) |
|---|--------------------|---------------------|--------------------|
| 1-Year | | | |
| General Government Funds | -0.15 | 0.90 | 1.76 |
| Government Intermediate Funds | 0.64 | 1.14 | 1.72 |
| Government Short & Short-Intermediate Funds | 3.10 | 3.97 | 4.39 |
| General Investment-Grade Funds | 1.23 | 2.40 | 3.01 |
| Investment-Grade Intermediate Funds | 1.31 | 1.73 | 2.30 |
| Investment-Grade Short & Intermediate Funds | 4.67 | 5.06 | 5.57 |
| General Bond Funds | 1.81 | 3.21 | 4.95 |
| High Yield Funds | 6.68 | 7.58 | 8.28 |
| Mortgage-Backed Securities Funds | 0.96 | 1.82 | 4.44 |
| Inflation-Linked Funds | 1.53 | 1.86 | 2.53 |
| Global Income Funds | -2.10 | 2.43 | 4.07 |
| Emerging Market Debt Funds | 6.17 | 6.91 | 7.56 |
| General Municipal Debt Funds | 1.71 | 2.29 | 2.87 |
| California Municipal Debt Funds | 2.01 | 2.44 | 2.76 |
| New York Municipal Debt Funds | 1.71 | 1.90 | 2.11 |
| Loan Participation Funds | 7.56 | 8.20 | 8.80 |
| 3-Year | | | |
| General Government Funds | -4.96 | -2.85 | -1.90 |
| Government Intermediate Funds | -2.83 | -2.17 | -1.38 |
| Government Short & Short-Intermediate Funds | 0.40 | 0.86 | 1.30 |
| General Investment-Grade Funds | -3.01 | -2.41 | -2.03 |
| Investment-Grade Intermediate Funds | -2.79 | -2.38 | -2.02 |
| Investment-Grade Short & Intermediate Funds | 1.52 | 1.87 | 2.51 |
| General Bond Funds | -2.13 | -0.72 | 1.37 |
| High Yield Funds | 1.92 | 2.46 | 3.04 |
| Mortgage-Backed Securities Funds | -2.40 | -1.91 | -1.17 |
| Inflation-Linked Funds | -2.90 | -2.33 | -1.23 |
| Global Income Funds | -5.13 | -2.00 | -0.03 |
| Emerging Market Debt Funds | -0.33 | 0.18 | 0.92 |
| General Municipal Debt Funds | -1.19 | -0.83 | -0.49 |
| California Municipal Debt Funds | -1.12 | -0.81 | -0.38 |
| New York Municipal Debt Funds | -1.34 | -0.86 | -0.57 |
| Loan Participation Funds | 5.25 | 5.97 | 6.25 |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 15: Quartile Breakpoints of Fixed Income Funds (cont.)

| Fund Category | Third Quartile (%) | Second Quartile (%) | First Quartile (%) |
|---|--------------------|---------------------|--------------------|
| 5-Year | | | |
| General Government Funds | -2.03 | -0.89 | -0.05 |
| Government Intermediate Funds | -0.83 | -0.21 | 0.06 |
| Government Short & Short-Intermediate Funds | 0.61 | 1.02 | 1.32 |
| General Investment-Grade Funds | -0.47 | 0.23 | 0.51 |
| Investment-Grade Intermediate Funds | -0.41 | -0.05 | 0.28 |
| Investment-Grade Short & Intermediate Funds | 1.62 | 1.92 | 2.28 |
| General Bond Funds | -0.05 | 0.95 | 2.15 |
| High Yield Funds | 2.94 | 3.59 | 4.25 |
| Mortgage-Backed Securities Funds | -0.98 | -0.70 | -0.11 |
| Inflation-Linked Funds | 1.26 | 1.77 | 2.14 |
| Global Income Funds | -2.53 | -0.29 | 0.80 |
| Emerging Market Debt Funds | 0.15 | 0.80 | 1.22 |
| General Municipal Debt Funds | 0.66 | 0.90 | 1.16 |
| California Municipal Debt Funds | 0.52 | 0.91 | 1.28 |
| New York Municipal Debt Funds | 0.58 | 0.85 | 0.97 |
| Loan Participation Funds | 4.25 | 4.56 | 5.08 |
| 10-Year | | | |
| General Government Funds | 0.17 | 0.55 | 0.88 |
| Government Intermediate Funds | 0.54 | 0.68 | 0.93 |
| Government Short & Short-Intermediate Funds | 0.87 | 1.08 | 1.30 |
| General Investment-Grade Funds | 1.39 | 2.04 | 2.47 |
| Investment-Grade Intermediate Funds | 1.19 | 1.41 | 1.64 |
| Investment-Grade Short & Intermediate Funds | 1.59 | 1.90 | 2.24 |
| General Bond Funds | 1.98 | 2.39 | 2.94 |
| High Yield Funds | 3.93 | 4.33 | 4.62 |
| Mortgage-Backed Securities Funds | 0.48 | 0.78 | 1.18 |
| Inflation-Linked Funds | 1.73 | 1.95 | 2.15 |
| Global Income Funds | -0.09 | 1.07 | 1.97 |
| Emerging Market Debt Funds | 2.19 | 2.75 | 3.26 |
| General Municipal Debt Funds | 1.91 | 2.20 | 2.38 |
| California Municipal Debt Funds | 1.91 | 2.19 | 2.44 |
| New York Municipal Debt Funds | 1.94 | 2.06 | 2.17 |
| Loan Participation Funds | 3.64 | 4.03 | 4.30 |
| | | | |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 15: Quartile Breakpoints of Fixed Income Funds (cont.)

| Fund Category | Third Quartile (%) | Second Quartile (%) | First Quartile (%) |
|---|--------------------|---------------------|--------------------|
| 15-Year | | | |
| General Government Funds | 1.32 | 1.82 | 2.48 |
| Government Intermediate Funds | 1.22 | 1.42 | 1.59 |
| Government Short & Short-Intermediate Funds | 1.00 | 1.18 | 1.41 |
| General Investment-Grade Funds | 2.49 | 2.94 | 3.73 |
| Investment-Grade Intermediate Funds | 2.42 | 2.73 | 3.16 |
| Investment-Grade Short & Intermediate Funds | 1.71 | 1.92 | 2.36 |
| General Bond Funds | 2.33 | 2.93 | 4.27 |
| High Yield Funds | 5.23 | 5.57 | 5.83 |
| Mortgage-Backed Securities Funds | 1.50 | 1.72 | 2.05 |
| Inflation-Linked Funds | 2.11 | 2.38 | 2.49 |
| Global Income Funds | 0.90 | 1.70 | 2.73 |
| Emerging Market Debt Funds | 1.84 | 3.63 | 3.97 |
| General Municipal Debt Funds | 2.95 | 3.28 | 3.59 |
| California Municipal Debt Funds | 3.34 | 3.59 | 3.79 |
| New York Municipal Debt Funds | 2.85 | 3.03 | 3.35 |
| Loan Participation Funds | 3.90 | 4.31 | 4.58 |
| 20-Year | | | |
| General Investment-Grade Funds | 2.88 | 3.34 | 3.87 |
| Investment-Grade Intermediate Funds | 2.83 | 3.06 | 3.42 |
| High Yield Funds | 4.98 | 5.30 | 5.58 |
| Mortgage-Backed Securities Funds | 2.30 | 2.43 | 2.77 |
| Inflation-Linked Funds | 2.58 | 2.80 | 3.06 |
| Global Income Funds | 1.52 | 2.44 | 3.16 |
| Emerging Market Debt Funds | 4.77 | 5.14 | 5.30 |
| General Municipal Debt Funds | 3.05 | 3.29 | 3.42 |
| California Municipal Debt Funds | 3.22 | 3.45 | 3.59 |
| New York Municipal Debt Funds | 3.02 | 3.19 | 3.28 |
| | | | |

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Dec. 31, 2024. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Appendix A: Mapping

SPIVA Styles and Fund Classifications

The SPIVA Scorecard covers domestic equity, global equity and global fixed income categories. Fund returns are sourced from the CRSP Survivor-Bias-Free US Mutual Fund Database, a complete database of both active and liquidated or merged mutual funds and ETFs¹⁰ created in 1995 and containing fund data from December 1961. Fund classifications are based upon the Lipper fund classification system.

U.S. Equity

SPIVA covers major capitalization levels (large-, mid-, small- and multi-cap funds) and investment styles (growth, core and value). S&P Dow Jones Indices relies on the Lipper fund classifications, which determine a fund portfolio's capitalization and investment style assignments.

Lipper assigns a market capitalization to each fund based on the percentages of a fund's three-year weighted equity assets that fall into each of Lipper's three defined market capitalization slices. The market capitalization breakpoints are calculated using all common stocks, excluding all non-U.S. domiciled stocks and ADRs, trading on the NYSE, AMEX and NASDAQ. Funds are assigned to the capitalization level in which they have a 75% or higher weighting. Any fund that has less than 75% of its three-year weighted allocation in any of the three market capitalization ranges is classified as a multi-cap fund.

For investment style selection, the Lipper classification system uses three-year fundamental portfolio characteristics (price/earnings, price/book and three-year sales-per-share growth) and, if necessary, confirms secondary characteristics (price-to-sales and price-to-operating cash flow).

In some cases, S&P Dow Jones Indices combines closely related Lipper fund classifications in one SPIVA category. Exhibit A1 maps the SPIVA U.S. Equity fund categories to Lipper classifications.

¹⁰ The dataset encompasses retail mutual funds and all ETFs that are domiciled in the U.S.

Exhibit A1: U.S. Equity Category Mappings

| SPIVA Category | Lipper Fund Classification |
|-------------------------|----------------------------|
| Large-Cap Growth Equity | Large-Cap Growth Funds |
| Large-Cap Core Equity | Large-Cap Core Funds |
| Laura Oan Valua Fasita | Large-Cap Value Funds |
| Large-Cap Value Equity | Equity Income Funds |
| Mid-Cap Growth Equity | Mid-Cap Growth Funds |
| Mid-Cap Core Equity | Mid-Cap Core Funds |
| Mid-Cap Value Equity | Mid-Cap Value Funds |
| Small-Cap Growth Equity | Small-Cap Growth Funds |
| Small-Cap Core Equity | Small-Cap Core Funds |
| Small-Cap Value Equity | Small-Cap Value Funds |
| Multi-Cap Growth Equity | Multi-Cap Growth Funds |
| Multi-Cap Core Equity | Multi-Cap Core Funds |
| Multi-Cap Value Equity | Multi-Cap Value Funds |
| | <u> </u> |

Source: S&P Dow Jones Indices LLC, Lipper. Table is provided for illustrative purposes.

International Equity

For international equity, SPIVA reports on four major categories (global, international, international small-cap and emerging market) of interest to global asset allocators. These categories also include multiple Lipper capitalization and style classifications.

Exhibit A2: International Equity Category Mappings

| SPIVA Category | Lipper Funds Classification | |
|-------------------------------|---|--|
| Global Funds | Global Large-Cap Growth Funds | |
| | Global Large-Cap Core Funds | |
| | Global Large-Cap Value Funds | |
| | Global Multi-Cap Growth Funds | |
| | Global Multi-Cap Core Funds | |
| | Global Multi-Cap Value Funds | |
| | International Large-Cap Growth Funds | |
| | International Large-Cap Core Funds | |
| late median al Foreda | International Large-Cap Value Funds | |
| International Funds | International Multi-Cap Growth Funds | |
| | International Multi-Cap Core Funds | |
| | International Multi-Cap Value Funds | |
| | International Small-/Mid-Cap Growth Funds | |
| International Small-Cap Funds | International Small-/Mid-Cap Core Funds | |
| | International Small-/Mid-Cap Value Funds | |
| Emerging Market Funds | Emerging Markets Funds | |

Source: S&P Dow Jones Indices LLC, Lipper. Table is provided for illustrative purposes.

Fixed Income

SPIVA reports on 11 domestic, 2 global and 3 municipal fixed income categories. The Lipper domestic fixed income classifications are based on maturity and credit quality. For maturity, long is over 10 years, intermediate is 5-10 years, short/intermediate is 1-5 years and short is 1-3.5 years. For credit quality, bonds are assigned to U.S. Treasury, U.S. government (includes government and agency issues), A or BBB rated (according to Lipper fund rating methodology), loan participations and high yield classifications. Lipper also includes U.S. mortgages and Government National Mortgage Association (GNMA) classifications.

In global fixed income, Lipper differentiates between global (including the U.S.) and international (excluding the U.S.) objectives. For municipal debt funds, we include the general classification (invests in the top four credit ratings) plus two state funds (California and New York).

Exhibit A3: Fixed Income Category Mappings

| SPIVA Category | Lipper Funds Classification | | |
|---|--|--|--|
| General Government Funds | General U.S. Government Funds | | |
| Government Intermediate Funds | General U.S. Treasury Funds | | |
| Government intermediate Funds | Intermediate U.S. Government Funds | | |
| Government Short & Short-Intermediate Funds | Short-Intermediate U.S. Government Funds | | |
| Government Short & Short-Intermediate Funds | Short U.S. Government Funds | | |
| General Investment-Grade Funds | Short U.S. Treasury Funds | | |
| General investment-Grade Funds | Corporate Debt Funds A Rated | | |
| Investment-Grade Intermediate Funds | Corporate Debt Funds BBB-Rated | | |
| | Intermediate Investment Grade Debt Funds | | |
| Investment-Grade Short & Intermediate Funds | Short-Intermediate Investment Grade Debt Funds | | |
| investment-Grade Short & intermediate Funds | Short Investment Grade Debt Funds | | |
| General Bond Funds | General Bond Funds | | |
| High Yield Funds | High Current Yield Funds | | |
| Mortgage-Backed Securities Funds | U.S. Mortgage Funds | | |
| Wortgage-Backed Securities Funds | GNMA Funds | | |
| Inflation-Linked Funds | Inflation Protected Bond Funds | | |
| Global Income Funds | Global Income Funds | | |
| Global income i dids | International Income Funds | | |
| Emerging Market Debt Funds | Emerging Markets Debt Funds | | |
| General Municipal Debt Funds | General & Insured Municipal Debt Funds | | |
| California Municipal Debt Funds | California Municipal Debt Funds | | |
| New York Municipal Debt Funds | New York Municipal Debt Funds | | |
| Loan Participation Funds | Loan Participation Funds | | |
| | | | |

Source: S&P Dow Jones Indices LLC, Lipper. Table is provided for illustrative purposes.

Appendix B: Glossary

Percentage of Funds Underperforming the Index

To correct for survivorship bias, we use the opportunity set available at the beginning of the period as the denominator. We determine the count of funds that have survived and beat the index. We then report the index outperformance percentage.

Survivorship (%)

This measure represents the percentage of products in existence at the beginning of the time period that is still active at the end of the time period.

Style Consistency (%)

This calculation shows the percentage of funds that had the same style classification at the end of the time period as at the beginning of the time period.

Equal-Weighted Performance

Equal-weighted returns for a particular style category are determined by calculating a simple average return of all active managers in that category in a particular month.

Asset-Weighted Performance

Asset-weighted returns for a particular style category are determined by calculating a weighted average return of all funds in that category in a particular month, with each fund's return weighted by its total net assets.

Quartile Breakpoints

The pth percentile for a set of data is the value that is greater than or equal to p% of the data but is less than or equal to (100-p)% of the data. In other words, it is a value that divides the data into two parts: the lower p% of the values and the upper (100-p)% of the values. The first quartile is the 75th percentile, the value separating the elements of a population into the lower 75% and the upper 25%. The second quartile is the 50th percentile and the third quartile is the 25th percentile.

Survivorship Bias

Many funds might liquidate or merge during a period of study. This usually occurs due to continued poor performance by the fund. Therefore, if index returns were compared to fund returns using only surviving funds, the comparison would be biased in favor of the fund

category. These reports remove this bias by (a) using the entire investment opportunity set, made up of all funds in that particular category at the outset of the period, as the denominator for outperformance calculations, (b) explicitly showing the survivorship rate in each category and (c) constructing peer average return series for each category based on all available funds at the outset of the period.

Fees

The fund returns used are net of fees, excluding loads.

Indices

A benchmark index provides an investment vehicle against which fund performance can be measured.

U.S. Equity

S&P 500

Widely regarded as the best single gauge of the U.S. equities market, this market-capitalization-weighted index includes a representative sample of 500 leading companies in the foremost industries of the U.S. economy and provides over 80% coverage of U.S. equities.

S&P Midcap 400

This index consists of 400 mid-sized companies and covers approximately 7% of the U.S. equities market.

S&P SmallCap 600

This index consists of 600 small-cap companies and covers approximately 3% of the U.S. equities market.

S&P Composite 1500

This is a broad, market-capitalization-weighted index of 1500 companies formed by combining the S&P 500, S&P MidCap 400 and S&P SmallCap 600. The index represents approximately 90% of U.S. equities.

S&P 500 Growth and Value Indices

These indices form an exhaustive, multi-factor style series covering the entire market capitalization of the S&P 500. Constituents, weighted according to market capitalization, are classified as growth, value or a mix of growth and value.

S&P MidCap 400 Growth and Value Indices

These indices form an exhaustive, multi-factor style series covering the entire market capitalization of the S&P MidCap 400.

S&P SmallCap 600 Growth and Value Indices

These indices form an exhaustive, multi-factor style series covering the entire market capitalization of the S&P SmallCap 600.

S&P Composite 1500 Growth and Value Indices

These indices form an exhaustive, multi-factor style series covering the entire market capitalization of the S&P Composite 1500.

S&P United States REIT

This index measures the investable universe of publicly traded real estate investment trusts.

International Equity

S&P World Index

The S&P World Index, a subset of the S&P Global BMI, is an equity index that tracks the performance of large- and mid-cap stocks from 24 developed markets, representing approximately the top 85% of market capitalization in each country.

S&P World Ex-U.S. Index

The S&P World Ex-U.S. Index is designed to measure the performance of large- and mid-cap securities in developed markets, excluding the U.S. and Korea.

S&P Developed Ex-U.S. SmallCap

This index represents the small-cap segment—the bottom 15%—of the world's universe of institutionally investable securities, excluding the U.S.

S&P/IFCI Composite

This index is widely recognized as a comprehensive and reliable measure of the world's emerging markets. It is designed to measure the returns of stocks that are legally and practically available to foreign investors.

Fixed Income

iBoxx \$ Liquid High Yield Index

This index consists of USD-denominated corporate high yield debt from developed markets with maturities greater than 1 year and less than 15 years.

iBoxx \$ Liquid Investment Grade Index

This index consists of USD-denominated corporate investment grade debt from developed markets with maturities greater than three years.

iBoxx TIPS Inflation Linked Index

This index measures the performance of the U.S. Treasury Inflation Protected Securities (TIPS) market across all maturities.

iBoxx \$ Domestic Sovereigns & Sub-Sovereigns Index

This index comprises USD-denominated sovereign and sub-sovereign bonds that have an investment grade rating and are SEC registered. Eligible bonds must have maturities greater than one year.

iBoxx \$ Domestic Sovereigns & Sub-Sovereigns 1-10Y Index

This index comprises USD-denominated sovereign and sub-sovereign bonds that have an investment grade rating and are SEC registered. Eligible bonds must have maturities greater than 1 year and less than 10 years.

iBoxx \$ Domestic Sovereigns & Sub-Sovereigns 1-5Y Index

This index comprises USD-denominated sovereign and sub-sovereign bonds that are SEC registered. Eligible bonds must have maturities greater than one year and less than five years.

iBoxx \$ Overall Index

This index is a broad set of USD-denominated bonds, comprising U.S. treasuries, sovereigns, sub-sovereigns, corporates and covered bonds with an investment grade rating. It includes bonds from developed markets and emerging markets. Eligible bonds must have maturities greater than one year.

iBoxx \$ Overall 1-5Y Index

This index is a broad set of USD-denominated bonds, comprising U.S. treasuries, sovereigns, sub-sovereigns, corporates and covered bonds with an investment grade rating. It includes

bonds from developed markets and emerging markets. Eligible bonds must have maturities greater than one year and less than five years.

Markit iBoxx \$ Leveraged Loans Index

This index represents the main sections of the USD leveraged loan market. It comprises rated, non-rated and defaulted loans. Eligible rated loans must have a non-investment grade rating. The minimum initial time to maturity for loans is one year and the minimum amount outstanding is USD 100 million.

Bloomberg U.S. Aggregate Bond Index

This is a broad-based index covering investment grade, USD-denominated bonds, including treasuries, government-related and corporate securities, mortgage-backed securities (MBS) and asset-backed securities (ABS).

Bloomberg Mortgage-Backed Securities Index

This index includes 15- and 30-year fixed-rate securities backed by mortgage pools of the Government National Mortgage Association (GNMA), Federal Home Loan Mortgage Corporation (FHLMC) and Federal National Mortgage Association (FNMA).

Bloomberg Global Aggregate Bond Index

This index covers the most liquid portion of the global investment grade, fixed-rate bond market, including government, credit and collateralized securities.

Bloomberg Emerging Markets \$ Aggregate Index

This index includes fixed- and floating-rate USD-denominated debt from emerging markets.

S&P National AMT-Free Municipal Bond Index

This index is a broad, comprehensive, market-value-weighted index designed to measure the performance of investment grade U.S. municipal bonds that are exempt from the Alternative Minimum Tax.

S&P California AMT-Free Municipal Bond Index

This index is designed to measure the performance of investment grade California municipal bonds that are exempt from the alternative minimum tax.

S&P New York AMT-Free Municipal Bond Index

This index is designed to measure the performance of investment grade New York bonds that are exempt from the alternative minimum tax.

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