

Quartz Spectrum (USD)

Overall Morningstar Rating™ Standard Index **Category Index** **Morningstar Category™**
 ★★★★★ Morningstar Mod Morningstar Tactical Allocation
 Tgt Risk TR USD Mod Agg Tgt Risk TR USD

Customization	
Exclude securities	By Req
Modify sector weightings	By Req
Consult with portfolio manager	Proactive
Consult with portfolio administrator	Proactive
Tax Lot Harvest Rpt to Financial Professional	By Req
Access daily portfolio holdings	By Req
Access daily performance	By Req
Access daily risk/MPT stats	By Req
Annual tax document	By Req

Tax-Efficiency	
Use of tax-optimization software	By Req
Use of tax-lot trading strategies	By Req
Ability to harvest tax losses	By Req
Trades analyzed by holding period	By Req
Lg-term cap gain use in position chgs	By Req
Analysis of taxable income streams	By Req
Sell high cost positions first	By Req
Short-term gain flag before trade	By Req
Analysis of loss candidates	By Req

Portfolio Manager(s)
 Joseph Arena Since 03-02-2015, Kyle Webber Since 03-02-2015

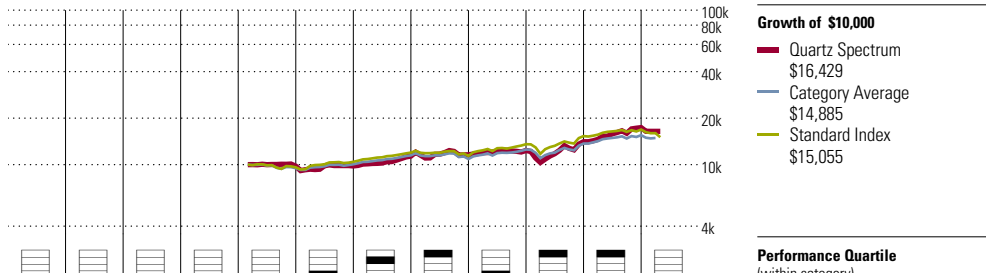
Rating and Risk			
Time Period	Morningstar Rtn vs Cat	Morningstar Risk vs Cat	Morningstar Rating
3 Yr	+Avg	+Avg	4★
5 Yr	+Avg	+Avg	4★
10 Yr	—	—	—

Gross Performance 04-30-2022					
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
2018	-2.85	5.93	4.13	-4.90	1.91
2019	3.27	1.89	0.61	0.73	6.63
2020	-16.36	13.97	8.35	10.27	13.89
2021	3.60	8.67	0.76	8.83	23.45
2022	-5.39	—	—	—	-5.40

Trailing	Total Return %	+/- Std Index	% Rank Cat	Growth of \$10,000
1 Mo	-0.01	—	—	9999
3 Mo	-0.11	—	—	9989
1 Yr	7.54	—	—	10754
3 Yr	11.12	—	—	13721
5 Yr	10.04	—	—	16135

Risk and Return Profile		
	Standard Index	Best Fit Index Morningstar US Large-Mid TR USD
Alpha	5.52	2.92
Beta	0.89	0.57
R-Squared	62.34	67.11
Standard Deviation	13.16	
Mean	11.12	
Sharpe Ratio	0.82	
12-Month Yield	—	

Operations	
Product Focus:	Both
Investment Minimum(\$mil):	—
% Portfolios Customized:	—
% Portfolio Tax-Managed:	—



Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	04-22	History
Total Return %	—	—	—	—	—	0.29	15.90	1.91	6.63	13.89	23.45	-5.40	Total Return %
+/- Standard Index	—	—	—	—	—	-8.28	1.24	6.67	-12.39	1.07	13.26	—	+/- Standard Index
+/- Category Index	—	—	—	—	—	-9.93	-2.99	8.65	-16.31	0.38	9.41	—	+/- Category Index
Total Rtn % Rank Cat	—	—	—	—	—	88	38	4	91	25	11	—	Total Rtn % Rank Cat
Dispersion	High												
Std Dev of Accounts	—												
Product Assets \$mil	—												

Portfolio Analysis 03-31-2022									
Composition %	Net %	Long %	Short %	Share Chg since 12-2021	Share Amount	Holdings :	102 Total Stocks , 45 Total Fixed-Income, — Turnover Ratio	Net Assets %	
Cash	1.19	1.19	0.00	—	—	—	—	—	
US Stocks	96.62	96.62	0.00	⊕	96,132	Invesco NASDAQ 100 ETF	—	98.82	
Non-US Stocks	2.19	2.19	0.00	⊖	0	Invesco Optm Yd Dvrs Cdy Stra No	—	0.00	
Bonds	0.00	0.00	0.00	⊖	0	iShares Core S&P 500 ETF	—	0.00	
Other/Not Clsfd	0.00	0.00	0.00	⊖	0	iShares MSCI USA Quality Factor ETF	—	0.00	
Total	100.00	100.00	0.00	⊖	0	Schwab US REIT ETF™	—	0.00	
				⊖	0	Schwab US TIPS ETF™	—	0.00	
				⊖	0	Vanguard Financials ETF	—	0.00	
				⊖	0	Vanguard Mid-Cap Growth ETF	—	0.00	

Equity Style		
Market Cap	Rel	
Giant	62.1	⊖
Large	32.5	⊖
Medium	5.5	⊖
Small	0.0	⊖
Micro	0.0	⊖
Geo Avg Cap(\$mil)	413,125.6	

Value Grades	%	Growth Grades	%
Price/Earnings	28.34	Projected Erngs	14.28
Price/Book	7.78	Book Value	14.19
Price/Sales	5.06	Sales	15.20
Price/Cash Flow	20.78	Cash Flow	19.83
Dividend Yield	0.75	Trailing Earnings	24.21

Fixed-Income Style		
	High	Low
Avg Eff Duration	—	—
Avg Eff Maturity	—	—
Avg Wtd Coupon	—	—
Avg Wtd Price	—	—

Account Size Breakdown	Total Account Value(\$mil)	Number of Accounts
Less than \$250,000	—	—
\$250,000 - \$1 million	—	—
\$1 million - \$10 million	—	—
More than \$10 million	—	—

Sector Weightings	Stocks %	Rel Std Index
Cyclical	18.0	0.46
Basic Materials	0.0	0.00
Consumer Cyclical	17.0	1.68
Financial Services	1.0	0.06
Real Estate	0.0	0.00
Sensitive	69.3	1.82
Communication Services	17.0	2.73
Energy	0.0	0.00
Industrials	3.9	0.36
Technology	48.3	3.00
Defensive	12.8	0.56
Consumer Defensive	5.5	0.83
Healthcare	6.2	0.50
Utilities	1.1	0.30

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The Separate Account Investment Detail report is supplemental sales material, and therefore must be preceded or accompanied by the separate account disclosure statement, or equivalent. Please read this information carefully. In all cases, this disclosure statement should accompany this report. Morningstar is not itself a FINRA-member firm. All data is based on the most recent information available to Morningstar.

If a separate account data element is populated with the characters "DNP" this means the separate account firm "does not participate" to Morningstar for that set of data.

Customization

Morningstar surveys the separate account firms for the items in this section each month. If the money manager can do something by request it is denoted with "by req" and if the money manager does something on a standard basis, or proactive, it is denoted by "proact."

Exclude Securities indicates the willingness and/or ability to allow a client (either the actual investor, a broker or financial professional representing the end investor, or a program sponsor with whom the money manager is providing this separate account product) to exclude certain securities from being held in a particular account in this product.

Modify Sector Weightings indicates the willingness and/or ability to allow a client (either the actual investor, a broker or financial professional representing the end investor, or a program sponsor with whom the money manager is providing this separate account product) to modify sector weightings.

Consult with Portfolio Manager or Administrator indicates the willingness and/or ability to allow a client (either the actual investor, a broker or financial professional representing the end investor, or a program sponsor with whom the money manager is providing this separate account product) to consult with the portfolio manager and administrator on a regular basis. This communication may take the form of quarterly phone calls, emails, or visits with the portfolio administrator or manager.

Tax Lot Harvest Report to Financial Professional indicates the willingness and/or ability to provide a client (either the actual investor, a broker or financial professional representing the end investor, or a program sponsor with whom the money manager is providing this separate account product) with a regular statement detailing trades that were made in a particular client's account to take advantage of tax lot harvesting.

Access Daily Information indicates the willingness and/or ability to provide a client (either the actual investor, a broker or financial professional representing the end investor, or a program sponsor with whom the money manager is providing this separate account product) with access to the daily holdings, risk, MPT, and performance information in their particular account. This would normally be accomplished via online account access.

Annual Tax Document indicates the willingness and/or ability to provide a client (either the actual investor, a broker or financial professional representing the end investor, or a program sponsor with whom the money manager is providing this separate account product) with a regular statement detailing trades that were made in a particular client's account to take

advantage of tax lot harvesting and that can be filed directly with the IRS.

Tax Efficiency

Tax efficiency features reflect the investment manager's control and monitoring of taxable events on behalf of the actual investor in a separate account, broker or financial professional representing the end investor, or a program sponsor with whom the money manager is providing a separate account. Each month, Morningstar surveys investment managers and asks them if their management of the separate account strategies they offer to investors includes:

- Analyzing trades (buy or sell transactions) by holding period
- Providing access to tax reports
- Completing investors' applicable year-end tax returns
- Using specialized tax optimization software
- Employing tax-aware trading strategies
- Harvesting tax losses
- Using long-term capital gains in position changes
- Offering multiple reinvestment options for dividend cash flows
- Offering investors the option to sell high cost positions first
- Monitoring short-term gains before trading
- Analyzing potential candidates for capital losses.

Rating and Risk

The Morningstar Rating is calculated on a quarterly basis for separate accounts with at least a three-year history. It is calculated based on a Morningstar Risk-Adjusted Return measure that accounts for variation in a separate account's monthly performance, placing more emphasis on downward variations and rewarding consistent performance. The top 10% of separate accounts in each category receive 5 stars, the next 22.5% receive 4 stars, the next 35% receive 3 stars, the next 22.5% receive 2 stars and the bottom 10% receive 1 star. The Overall Morningstar Rating for a separate account is derived from a weighted average of the performance figures associated with its three-, five- and 10-year (if applicable) Morningstar Rating metrics. Morningstar will not calculate ratings for categories or time periods that contain fewer than five separate accounts.

Performance

The performance data given represents past performance and should not be considered indicative of future results. Principal value and investment return will fluctuate, so that an investor's shares, when redeemed, may be worth more or less than the original investment. The separate account is not FDIC-insured, may lose value and is not guaranteed by a bank or other financial institution.

All separate account performance data is reported as a "composite" of similarly managed portfolios. As such, investors in the same separate account may have slightly different portfolio holdings because each investor has customized account needs, tax considerations and security preferences. The method for calculating composite returns can vary.

The composite performance for each separate account manager may differ from actual returns in specific client accounts during the same period for a number of reasons. Different separate account managers may use different methods in

constructing or computing performance figures. Thus, performance and risk figures for different separate account managers may not be fully comparable to each other. Likewise, performance and risk information of certain separate account managers may include only composites of larger accounts, which may or may not have more holdings, different diversification, different trading patterns and different performance than smaller accounts with the same strategy. Finally, composite performance of the separate account offered by the money manager may or may not reflect the reinvestment of dividends and capital gains.

Gross returns are collected on a monthly and quarterly basis for separate accounts and commingled pools. This information is collected directly from the asset management firm running the product(s). Morningstar calculates total returns, using the raw data (gross monthly and quarterly returns), collected from these asset management firms.

The performance data reported by the separate account managers will not represent actual performance net of management fees, brokerage commissions or other expenses. Management fees as well as other expenses a client may incur will reduce individual returns for that client. Because fees are deducted regularly, the compounding effect will increase the impact of the fee deduction on gross account performance by a greater percentage than that of the annual fee charged. For example, if an account is charged a 1% management fee per year and has gross performance of 12% during that same period, the compounding effect of the quarterly fee assessments will result in an actual return of approximately 10.9%. Clients should refer to the disclosure document of the separate account manager and their financial professional for specific information regarding fees and expenses.

The analysis in this report may be based, in part, on adjusted historical returns for periods prior to an insurance group separate account's (IGSA's) actual inception. When pre-inception data are presented in the report, the header at the top of the report will indicate this and the affected data elements will be displayed in italics. These calculated returns reflect the historical performance of the oldest share class of the underlying fund, adjusted to reflect the management fees of the current IGSA. While the inclusion of pre-inception data provides valuable insight into the probable long-term behavior of an IGSA based on the underlying fund's performance, investors should be aware that an adjusted historical return can only provide an approximation of that behavior. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the IGSA itself.

Morningstar % Rank within Morningstar Category does not account for a separate account's sales charge (if applicable).

Risk Analysis

The risk measures below are calculated for separate accounts with at least a three-year history.

Alpha measures the difference between a separate account's actual returns and its expected performance, given its level of risk (as measured by beta). Alpha is often seen as a measure of the value added or subtracted by a portfolio manager.

Beta is a measure of a separate account's sensitivity to market movements (i.e. the S&P 500). A portfolio with a beta greater than 1 is more volatile than the market, and a portfolio with a beta less than 1 is less volatile than the market.

R-squared reflects the percentage of a separate account's movements that is explained by movements in its benchmark index, showing the degree of correlation between the separate account and the benchmark. This figure is also

helpful in assessing how likely it is that alpha and beta are statistically significant.

Standard deviation is a statistical measure of the volatility of the separate account's returns.

Mean represents the annualized geometric return for the period shown.

The Sharpe ratio uses standard deviation and excess return to determine reward per unit of risk.

Best fit index: Alpha, beta, and R-squared statistics are presented for a broad market index and a "Best fit" index. The Best-Fit index identified in this report was determined by Morningstar by calculating R-squared for the fund against approximately 100 indexes tracked by Morningstar. The index representing the highest R-squared is identified as the best-fit index. The best-fit index may not be the fund's benchmark, nor does it necessarily contain the types of securities that may be held by the fund.

Asset Allocation

The weighting of the portfolio in various asset classes, including "Other" is shown in the table. "Other" includes security types that are not neatly classified in the other asset classes, such as convertible bonds and preferred stocks.

In the table, allocation to the classes is shown for long positions, short positions, and net (long positions net of short) positions. These statistics summarize what the managers are buying and how they are positioning the portfolio. When short positions are captured in these portfolio statistics, investors get a more robust description of the funds' exposure and risk.

Most managed product portfolios hold fairly conventional securities, such as long positions in stocks and bonds. Other portfolios use other investment strategies or securities, such as short positions or derivatives, to reduce transaction costs, enhance returns, or reduce risk. Some of these securities and strategies behave like conventional securities, while others have unique return and risk characteristics.

Most portfolios take long positions in securities. Long positions involve buying the security outright and then selling it later, with the hope that the security price rises over time. In contrast, short positions are taken to benefit from anticipated price declines. In this type of transaction, the investor borrows the security from another investor, sells it and receives cash, and then is obligated to buy it back at some point in the future. If the price falls after the short sale, the investor will have sold high and can now buy low to close the short position and lock in a profit. However, if the price of the security increases after the short sale, the investor will experience losses by buying it at a higher price than the sale price.

The strategy of selling securities short is prevalent in specialized portfolios, such as long-short, market-neutral, bear-market, and hedge funds. Most conventional portfolios do not typically short securities, although they may reserve the right to do so under special circumstances. Funds may also short derivatives, and this is sometimes more efficient than shorting individual securities. Short positions produce negative exposure to the security that is being shorted. This means that when the security rises in value, the short position will fall in value and vice versa. Morningstar's portfolio statistics will capture this negative exposure. For example, if a fund has many short stock positions, the percent of assets in stocks in the asset allocation breakdown may be negative. Funds must provide their broker with cash collateral for the short position, so funds that short often have a large cash position, sometimes even exceeding 100% cash.

Note that all other portfolio statistics presented in this report are based on the long holdings of the fund only.

Growth of 10,000

The graph compares the growth of \$10,000 in a separate account with that of an index and with that of the average for all separate accounts in its Morningstar category. The total returns are calculated from the gross returns provided by the asset management firm and are not adjusted for fees or the effects of taxation. If adjusted, sales charges would reduce the performance quoted. The index is an unmanaged portfolio of specified securities and cannot be invested in directly. The index and the category average do not reflect any initial or ongoing expenses. A separate account's portfolio may differ significantly from the securities in the index. The index is chosen by Morningstar.

There are some differences between the separate account rating methodology and the rating methodologies of other investments. All separate account performance data is reported to Morningstar as a "composite" of similarly managed portfolios. Separate accounts are based on total returns that have not been adjusted for investment management fees, and the returns are not tax-adjusted for accounts that invest in municipal bonds. A "DNP" in the rating section means that the firm did not participate in submitting their returns to Morningstar.

To ensure that ratings are fairly assigned, ratings are calculated only for firms that indicate its composites according to Global Investment Performance Standards (GIPS) (approximately 90% of the firms in our database submit composites that are depicted as GIPS-compliant).

Morningstar Return rates a separate account's performance relative to other separate accounts in its Morningstar Category. It is an assessment of a separate account's excess return over a risk-free rate (the return of the 90-day Treasury Bill), after adjusting for all applicable loads and sales charges, in comparison with the separate accounts in its Morningstar Category. In each Morningstar Category, the top 10% of separate accounts earn a High Morningstar Return (HIGH), the next 22.5% Above Average (+AVG), the middle 35% Average (AVG), the next 22.5% Below Average (-AVG), and the bottom 10% Low (LOW). Morningstar Return is measured for up to three time periods (three-, five-, and 10 years). These separate measures are then weighted and averaged to produce an overall measure for the separate account. Separate accounts with less than three years of performance history are not rated.

Morningstar Risk evaluates a separate account's downside volatility relative to that of other separate accounts in its Morningstar Category. It is an assessment of the variations in a separate account's quarterly returns, with an emphasis on downside variations, in comparison with the separate accounts in its Morningstar Category. In each Morningstar Category, the 10% of separate accounts with the lowest measured risk are described as Low Risk (LOW), the next 22.5% Below Average (-AVG), the middle 35% Average (AVG), the next 22.5% Above Average (+AVG), and the top 10% High (HIGH). Morningstar Risk is measured for up to three time periods (three-, five-, and 10 years). These separate measures are then weighted and averaged to produce an overall measure for the separate account. Separate accounts with less than three years of performance history are not rated.

Style Analysis

The Morningstar Style Box reveals a fund's investment style as of the date noted on this report.

For equity funds, the vertical axis shows the market capitalization of the long stocks owned, and the horizontal axis shows the investment style (value, blend, or growth.) A darkened cell in the style box matrix indicates the weighted

average style of the portfolio.

For portfolios holding fixed-income investments, a Fixed Income Style Box is calculated. The vertical axis shows the credit quality based on credit ratings and the horizontal axis shows interest-rate sensitivity as measured by effective duration. There are three credit categories- "High", "Medium", and "Low; and there are three interest rate sensitivity categories- "Limited", "Moderate", and "Extensive" resulting in nine possible combinations. As in the equity Style Box the combination of credit and interest rate sensitivity for a portfolio is represented by a darkened cell in the matrix.

Morningstar uses credit rating information from credit rating agencies (CRA's) that have been designated Nationally Recognized Statistical Rating Organizations (NRSRO's) by the Securities and Exchange Commission (SEC) in the United States. For a list of all NRSROs, please visit <https://www.sec.gov/ocr/ocr-learn-nrsros.html>. Additionally, Morningstar will use credit ratings from CRA's which have been recognized by foreign regulatory institutions that are deemed the equivalent of the NRSRO designation.

To determine the rating applicable to a holding and the subsequent holding weighted value of a portfolio two methods may be employed. First is a common methodology approach where if a case exists such that two rating organizations/ agencies have rated a holding, the lower rating of the two should be applied; if three or more CRA's have rated a holding the median rating should be applied, and in cases where there are more than two ratings and a median rating cannot be determined the lower of the two middle ratings should be applied. Alternatively, if there is more than one rating available an average can be calculated from all and applied. Please Note: Morningstar, Inc. is not an NRSRO nor does it issue a credit rating on the fund. Credit ratings for any security held in a portfolio may change over time.

Morningstar uses the credit rating information to calculate a weighted-average credit quality value for the portfolio. This value is based only upon those holdings which are considered to be classified as "fixed_income", such as government, corporate, or securitized issues. Other types of holdings such as equities and many, though not all, types of derivatives are excluded. The weighted-average credit quality value is represented by a rating symbol which corresponds to the long-term rating symbol schemas employed by most CRA's. Note that this value is not explicitly published but instead serves as an input in Style Box calculation. This symbol is then used to map to a Style Box credit quality category of "low," "medium," or "high". Funds with a "low" credit quality category are those whose weighted-average credit quality is determined to be equivalent to the commonly used High Yield classification, meaning a rating below "BBB", portfolios assigned to the "high" credit category have either a "AAA" or "AA+" average credit quality value, while "medium" are those with an average rating of "AA" inclusive to "BBB-". It is expected and intended that the majority of portfolios will be assigned a credit category of "medium".

For assignment to an interest-rate sensitivity category Morningstar uses the average effective duration of the portfolio. From this value there are three distinct methodologies employed to determine assignment to category. Portfolios which are assigned to Morningstar municipal-bond categories employ static breakpoints between categories. These breakpoints are "Limited" equal to 4.5 years or less.; (ii) "Moderate" equal to 4.5 years to less than 7 years, and "Extensive" equal to more than 7 years. For portfolios assigned to Morningstar categories other than U.S. Taxable, including all domiciled outside the United States, static duration breakpoints are also used. The values differ from the municipal category values, : "Limited" equals less than or equal to 3.5 years, "Moderate" equals greater than 3.5 years but less than or equal to 6 years, "Extensive" is assigned to portfolios with effective durations of more than 6 years. Note: Interest-rate sensitivity for non-U.S. domiciled portfolios (excluding those in Morningstar convertible categories) may be assigned using

average modified duration when average effective duration is not available.

For portfolios Morningstar classifies as U.S Taxable Fixed-Income, interest-rate sensitivity category assignment is based on the effective duration of the Morningstar Core Bond Index (MCBI). The classification assignment is dynamically determined relative to the benchmark index value. A "Limited" category will be assigned to portfolios whose average effective duration is between 25% to 75% of MCBI average effective duration, where the average effective duration is between 75% to 125% of the MCBI the portfolio will be classified as "Moderate", and those portfolios with an average effective duration value 125% or greater of the average effective duration of the MCBI will be classified as "Extensive".

Value and Growth Grades

The referenced data elements below are a weighted average of the equity holdings in the portfolio.

Value Grades

The Price/Projected Earnings ratio is a weighted average of the price/projected earnings ratios of the stocks in the underlying separate account's portfolio. The P/E ratio of a stock is calculated by dividing the current price of the stock by its trailing 12-months' earnings per share. In computing the average, Morningstar weights each portfolio holding by the percentage of equity assets it represents.

The Price/Book ratio is a weighted average of the price/book ratios of all the stocks in the underlying separate account's portfolio. The P/B ratio of a company is calculated by dividing the market price of its stock by the company's per-share book value. Stocks with negative book values are excluded from this calculation.

The Price/Sales ratio is a weighted average of the price/sales ratios of the stocks in a separate account's portfolio. Price/sales represents the amount an investor is willing to pay for a dollar generated from a particular company's operations.

The Price/Cash Flow ratio is a weighted average of the price/cash-flow ratios of the stocks in a separate account's portfolio. Price/cash-flow shows the ability of a business to generate cash and acts as a gauge of liquidity and solvency.

Dividend Yield is the annual percentage of return earned and is determined by dividing the amount of annual dividends per share by the current market price per share.

The geometric average market capitalization of a separate account's equity portfolio offers a measure of the size of the companies in which the separate account invests.

Growth Grades

The Long-term Projected Earnings Growth rate is the average of the available third-party analysts' estimates for three- to five-year EPS growth. For portfolios, this data point is the share-weighted average of the projected earnings growth estimates for all the stocks in the portfolio.

Book value growth rate is a measure of how the book value per share (BVPS) has grown over the last five years. For portfolios, this data point is the shareweighted collective book value growth for all stocks in the current portfolio.

Sales growth rate is a measure of how the sales per share (SPS) has grown over the last five years. For portfolios, this data point is the share-weighted collective

sales growth for all stocks in the current portfolio.

Cash Flow growth rate is a measure of how the cash flow per share (CFPS) has grown over the last three to five years. For portfolios, this data point is the share-weighted collective cash flow growth for all stocks in the current portfolio.

Trailing earnings growth rate is a measure of how the earnings per share (EPS) has grown over the last five years. Morningstar uses EPS from continuing operations to calculate this growth rate. For portfolios, this data point is the share-weighted collective earnings growth for all stocks in the current portfolio.

Fixed-Income Portfolio Statistics

The referenced data elements below are a weighted average of the long fixed income holdings in the portfolio.

Average effective duration is a time measure of a bond's interest rate sensitivity. Average effective duration is a weighted average of the duration of the underlying fixed income securities within the portfolio.

Average effective maturity is a weighted average of all the maturities of the bonds in a portfolio, computed by weighting each maturity date by the market value of the security.

Average weighted coupon is generated from the separate account's portfolio by weighting the coupon of each bond by its relative size in the portfolio. Coupons are fixed percentages paid out on a fixed-income security on an annual basis.

Account Size Breakdown

This is the number of total accounts, the aggregate value of these accounts, and their respective number of holdings as run by the asset manager in the separate account product, broken down by account size. This information is provided by the asset management firm running the separate account.

Global Investment Performance Standards (GIPS®)

Global Investment Performance Standards (GIPS®) are ethical standards set by the Investment Performance Council of the CFA Institute to be used by investment managers for creating performance presentations that ensure fair representation and full disclosure. Compliance with the GIPS is voluntary, but all of the standards must be adhered to in order for a money manager to claim compliance.

Morningstar Quantitative Rating™

Morningstar's quantitative fund ratings consist of: (i) Morningstar Quantitative Rating (overall score), (ii) Quantitative Parent pillar, (iii) Quantitative People pillar, and (iv) Quantitative Process pillar (collectively the "Quantitative Fund Ratings"). The Quantitative Ratings are calculated monthly and derived from the analyst-driven ratings of a fund's peers as determined by statistical algorithms. Morningstar, Inc. calculates Quantitative Ratings when a Morningstar Analyst Rating does not exist as part of its qualitative coverage.

- **Morningstar Quantitative Rating:** Intended to be comparable to the Morningstar Analyst Rating, which is the summary expression of Morningstar's forward-looking analysis of an investment product. The Morningstar Analyst Rating is based on an analyst's conviction in an investment product's ability to outperform its peer group and/or relevant benchmark on a risk-adjusted basis over a full market cycle of at least five years. Ratings are assigned on a five-tier scale with three positive ratings of Gold, Silver, and Bronze, a Neutral rating, and a Negative rating. Morningstar calculates the Morningstar Quantitative Rating using a statistical model derived from the Morningstar Analyst Rating that our manager research analysts assign to investment products. Please go to <https://shareholders.morningstar.com/investor->

[relations/governance/Compliance--Disclosure/default.aspx](#) for information about the Morningstar Analyst Rating.

- **Quantitative Parent pillar:** Intended to be comparable to Morningstar's Parent Pillar ratings, which provide Morningstar's analysts' opinion on the stewardship quality of a firm. Morningstar calculates the Quantitative Parent Pillar using an algorithm designed to predict the Parent Pillar rating our manager research analysts would assign to a firm. The quantitative pillar rating is expressed in both a rating and a numerical value as High (5), Above Average (4), Average (3), Below Average (2), and Low (1).

- **Quantitative People pillar:** Intended to be comparable to Morningstar's People Pillar ratings, which provide Morningstar's analysts' opinion on an investment product manager's talent, tenure, and resources. Morningstar calculates the Quantitative People Pillar using an algorithm designed to predict the People Pillar rating our manager research analysts would assign to investment product manager. The quantitative pillar rating is expressed in both a rating and a numerical value as High (5), Above Average (4), Average (3), Below Average (2), and Low (1).

- **Quantitative Process Pillar:** Intended to be comparable to Morningstar's Process Pillar ratings, which provide Morningstar's analysts' opinion on an investment product's strategy and whether the management has a competitive advantage enabling it to execute the process consistently over time. Morningstar calculates the Quantitative Process Pillar using an algorithm designed to predict the Process Pillar rating our manager research analysts would assign to an investment product. The quantitative pillar rating is expressed in both a rating and numerical value as High (5), Above Average (4), Average (3), Below Average (2), and Low (1).

Morningstar Quantitative Ratings **have not been made available** to the issuer of the security or sponsor of the investment product prior to publication.

Risk Warning

The quantitative ratings are not statements of fact. Morningstar does not guarantee the completeness or accuracy of the assumptions or models used in determining the quantitative ratings. In addition, there is the risk that the return target will not be met due to such things as unforeseen changes in changes in management, technology, economic development, interest-rate development, operating and/or material costs, competitive pressure, supervisory law, exchange rate, and tax rate. For investments in foreign markets, there are further risks, generally based on exchange-rate changes or changes in political and social conditions. A change in the fundamental factors underlying the quantitative ratings can mean that the recommendation is subsequently no longer accurate.

For more information about Morningstar's quantitative methodology, please visit <https://shareholders.morningstar.com/investor-relations/governance/Compliance--Disclosure/default.aspx>

Investment Risks

International/Emerging Market Equities: Investing in international securities involves special additional risks. These risks include, but are not limited to, currency risk, political risk, and risk associated with varying accounting standards. Investing in emerging markets may accentuate these risks.

Sector Strategies: Portfolios that invest exclusively in one sector or industry involve additional risks. The lack of industry diversification subjects the investor to increased industry-specific risks.

Non-Diversified Strategies: Portfolios that invest a significant percentage of assets in a single issuer involve additional risks, including share price fluctuations, because of the increased concentration of investments.

Small Cap Equities: Portfolios that invest in stocks of small companies involve additional risks. Smaller companies typically have a higher risk of failure, and are not as well established as larger blue-chip companies. Historically, smaller-company stocks have experienced a greater degree of market volatility than the overall market average.

Mid Cap Equities: Portfolios that invest in companies with market capitalization below \$10 billion involve additional risks. The securities of these companies may be more volatile and less liquid than the securities of larger companies.

High-Yield Bonds: Portfolios that invest in lower-rated debt securities (commonly referred to as junk bonds) involve additional risks because of the lower credit quality of the securities in the portfolio. The investor should be aware of the possible higher level of volatility, and increased risk of default.

Tax-Free Municipal Bonds: The investor should note that the income from tax-free municipal bond funds may be subject to state and local taxation and the Alternative Minimum Tax.

Bonds: Bonds are subject to interest rate risk. As the prevailing level of bond interest rates rise, the value of bonds already held in a portfolio declines. Portfolios that hold bonds are subject to declines and increases in value due to general changes in interest rates.

HOLDERS: The investor should note that these are narrow industry-focused products that, if the industry is hit by hard times, will lack diversification and possible loss of investment would be likely. These securities can trade at a discount to market price, ownership is of a fractional share interest, the underlying investments may not be representative of the particular industry, the HOLDER might be delisted from the AMEX if the number of underlying companies drops below nine, and the investor may experience trading halts.

Hedge Funds: The investor should note that hedge fund investing involves specialized risks that are dependent upon the type of strategies undertaken by the manager. This can include distressed or event-driven strategies, long/short strategies, using arbitrage (exploiting price inefficiencies), international investing, and use of leverage, options and/or derivatives. Although the goal of hedge fund managers may be to reduce volatility and produce positive absolute return under a variety of market conditions, hedge funds may involve a high degree of risk and are suitable only for investors of substantial financial means who could bear the entire loss of their investment.

Bank Loan/Senior Debt: Bank loans and senior loans are impacted by the risks associated with fixed income in general, including interest rate risk and default risk. They are often non-investment grade; therefore, the risk of default is high. These securities are also relatively illiquid. Managed products that invest in bank loans/senior debt are often highly leveraged, producing a high risk of return volatility.

Exchange Traded Notes (ETNs): ETNs are unsecured debt obligations. Any repayment of notes is subject to the issuer's ability to repay its obligations. ETNs do not typically pay interest.

Leveraged ETFs: Leveraged investments are designed to meet multiples of the return performance of the index they track and seek to meet their fund objectives on a daily basis (or other time period stated within the prospectus objective). The leverage/gearing ratio is the amount of excess return that a leveraged investment is designed to achieve in comparison to its index performance (i.e. 200%, 300%, -200%, or -300% or 2X, 3X, -2X, -3X). Compounding has the ability to affect the performance of the fund to be either greater or less than the index performance multiplied by the multiple stated within the funds objective over a stated time period.

Short Positions: When a short position moves in an unfavorable way, the losses are theoretically unlimited. The broker may demand more collateral and a manager might have to close out a short position at an inopportune time to limit further losses.

Long-Short: Due to the strategies used by long-short funds, which may include but are not limited to leverage, short selling, short-term trading, and investing in derivatives, these funds may have greater risk, volatility, and expenses than those focusing on traditional investment strategies.

Liquidity Risk: Closed-end fund, ETF, and HOLDR trading may be halted due to market conditions, impacting an investor's ability to sell a fund.

Market Price Risk: The market price of ETFs, HOLDRs, and closed-end funds traded on the secondary market is subject to the forces of supply and demand and thus independent of the NAV. This can result in the market price trading at a premium or discount to the NAV, which will affect an investor's value.

Market Risk: The market prices of ETFs and HOLDRs can fluctuate as a result of several factors, such as security-specific factors or general investor sentiment. Therefore, investors should be aware of the prospect of market fluctuations and the impact it may have on the market price.

Target-Date Funds: Target-date funds typically invest in other mutual funds and are designed for investors who are planning to retire during the target date year. The fund's target date is the approximate date when investors expect to begin withdrawing their money. A target-date fund's investment objective/strategy typically becomes more conservative over time, primarily by reducing its allocation to equity mutual funds and increasing its allocations in fixed-income mutual funds. An investor's principal value in a target-date fund is not guaranteed at any time, including at the fund's target date.

High double- and triple-digit returns: High double- and triple-digit returns were the result of extremely favorable market conditions, which may not continue to be the case. High returns for short time periods must not be a major factor when making investment decisions.

portfolios tend to invest across the spectrum of U.S. industries, and owing to their broad exposure, the portfolios' returns are often similar to those of the S&P 500 Index.

Money Market-Taxable

These funds invest in short-term money market securities in order to provide a level of current income that is consistent with the preservation of capital.

Morningstar Mod Agg Tgt Risk TR USD

The Morningstar Moderately Aggressive Target Risk Index represents a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in a static allocation appropriate for U.S. investors who seek a slightly above-average exposure to equity market risk and returns.

Morningstar Mod Tgt Risk TR USD

The Morningstar Moderate Target Risk Index represents a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in a static allocation appropriate for U.S. investors who seek average exposure to equity market risk and returns.

Morningstar US Large-Mid TR USD

The index provides a comprehensive depiction of the performance and fundamental characteristics of the Large-Mid Cap segment of U.S. equity markets. This Index does not incorporate Environmental, Social, or Governance (ESG) criteria.

Benchmark Disclosure

Foreign Large Blend

These funds seek capital appreciation by investing in a variety of large international stocks. Large-cap foreign stocks have market capitalizations greater than \$5 billion. The blend style is assigned to funds where neither growth nor value characteristics predominate. These funds typically will have less than 20% of assets invested in U.S. stocks.

Intermediate Core Bond

Intermediate-term core bond portfolios invest primarily in investment-grade U.S. fixed-income issues including government, corporate, and securitized debt, and hold less than 5% in below-investment-grade exposures. Their durations (a measure of interest-rate sensitivity) typically range between 75% and 125% of the three-year average of the effective duration of the Morningstar Core Bond Index.

Large Blend

Large-blend portfolios are fairly representative of the overall U.S. stock market in size, growth rates, and price. Stocks in the top 70% of the capitalization of the U.S. equity market are defined as large cap. The blend style is assigned to portfolios where neither growth nor value characteristics predominate. These