

Segall Bryant & Hamill

540 West Madison Street, Suite 1900
Chicago, Illinois 60661

Style: US Taxable Core
Sub-Style: Taxable Core
Firm AUM: \$19.7 billion
Firm Strategy AUM: \$3.0 billion

Year Founded: 1994
GIMA Status: Approved
Firm Ownership: 53% Employee Owned, 47% Owned by Thoma Bravo, LLC
Professional-Staff: 133

PRODUCT OVERVIEW

The Core Fixed Income strategy seeks to capitalize on bond market inefficiencies by identifying high-quality securities, defined as being assigned an investment grade rating by either Standard & Poors or Moodys, generally overlooked by other managers (e.g., small-issue corporates, taxable municipal bonds, and mortgages) that offer a measurable potential return advantage. The team utilizes fundamental analysis and disciplined risk controls with the goal of constructing, through bottom-up bond selection, diversified portfolios that can perform well in all periods, especially during times of economic stress and market uncertainty. Product Inception Date 04/23/2020.

TARGET PORTFOLIO CHARACTERISTICS

Number of bond holdings:	140 to 160
Average maturity:	7.6 to 8.0 years
Average duration:	5.8 to 5.9 years
Average coupon:	3.5 to 3.6%
Average turnover rate:	30 to 40%

PORTFOLIO STATISTICS

	-----06/20-----	12/19
	Segall	Index***
Number of bond holdings	175	160
Yield	2.9	—
Distribution Rate	—	—
Avg maturity	7.8 yrs.	7.9 yrs.
Avg duration	6 yrs.	5.9 yrs.
Avg coupon	3.2%	3.5%

FIXED INCOME SECTOR DISTRIBUTION (%)⁺

	06/20	03/20	12/19	09/19
Mortgage-Backed Securities	22.00	32.20	29.80	30.00
Financials ¹	1.60	4.00	25.40	27.40
U.S. Treasury	17.60	19.20	16.90	18.60
Medium capitalization ¹	8.00	5.80	5.80	6.50
Municipals	6.90	6.80	7.70	4.10
Industrials ¹	34.10	24.30	5.10	3.90
U.S. Agencies	0.50	3.30	3.20	3.80
Asset-Backed Securities	2.30	2.70	3.80	3.30
Cash/Cash Equivalents	1.50	1.60	1.70	1.80
Collateralized Mortgage Obligations	5.50	0.10	0.60	0.60
Convertibles	0.00	0.00	0.00	0.00
Foreign Bonds				
Emerging Debt				

¹High Grade Corporates

⁺Total may not equal 100% due to rounding.

^{***}Index : BC Aggregate

MANAGER'S INVESTMENT PROCESS

- The Fixed Income team employs a multi-step screening process in an effort to identify the highest quality securities in our investable universe. First, companies are ranked according to credit metrics which vary by industry. Next, we screen for eligibility (investment grade, SEC-registered and dollar denominated). Finally, members of the Fixed Income team apply tertiary screens that vary by industry; i.e., screens for leveraged buyout (LBO) risk, reserve replacement efficiency and recovery value.
- Further quantitative screening is then conducted before purchase, including break-even analysis and portfolio impact stress testing. The firm uses multiple data services to screen securities, which include FactSet, Bloomberg and MarketAxess.
- Models are built for companies making it through the screening process and have three notable characteristics: SBH utilizes only SEC and company sourced data rather than sell-side or third-party research. The team builds models by hand in order to enhance our understanding of company-specific information. Models are dynamic, which allows members of the Fixed Income team to stress test balance sheets under a variety of scenarios.
- Portfolio managers direct client portfolio investment decisions and ensure adherence with client and portfolio guidelines. They have the latitude to exclude a security from a portfolio if it is not consistent with client guidelines; however, if a sell decision is made by the recommending SBH analyst, portfolio managers must sell the security from all client portfolios. Portfolio managers do not have the latitude to include a security in the portfolio that has not been approved by an analyst for purchase.
- Selling begins with an SBH analyst making a sell recommendation to the entire team. After a thorough team discussion, the analyst makes the final sell decision. A bond is sold if 1) the fundamental research process identifies a deteriorating financial situation, 2) debt is found to be fairly valued and a more attractive candidate for purchase can be identified, or 3) the team identifies a change versus the original investment thesis.

RISK CONSIDERATIONS

Investing in securities entails risks, including: Fixed Income securities may be sensitive to changes in prevailing interest rates. When rates rise the value generally declines. There is no assurance that the private guarantors or insurers will meet their obligations. U.S. Treasuries are guaranteed by the U.S. government and, if held to maturity, offer a fixed rate of return and fixed principal value. Growth investing does not guarantee a profit or eliminate risk. The stocks of these companies can have relatively high valuations. Because of these high valuations, an investment in a growth stock can be more risky than an investment in a company with more modest growth expectations. Value investing does not guarantee a profit or eliminate risk. Not all companies whose stocks are considered to be value stocks are able to turn their business around or successfully employ corrective strategies which would result in stock prices that do not rise as initially expected. Bonds rated below investment grade may have speculative characteristics and present significant risks beyond those of other securities, including greater credit risk and price volatility in the secondary market. Investors should be careful to consider these risks alongside their individual circumstances, objectives and risk tolerance before investing in high-yield bonds. If a strategy expects to hold a concentrated portfolio of a limited number of securities, it should be noted that a decline in the value of these investments would cause the portfolio's overall value to decline to a greater degree than that of a less concentrated portfolio.

PORTFOLIO'S MATURITY STRUCTURE (%) *

	06/20	03/20	12/19	09/19
0 to 2 Years	10.30	14.90	17.50	19.80
2 to 4 Years	13.80	17.10	13.00	15.50
4 to 6 Years	30.80	27.80	14.60	17.10
6 to 8 Years	13.60	13.80	30.50	21.10
8 to 12 Years	14.30	8.60	7.00	5.60
12 to 17 Years	7.60	7.50	6.20	7.90
Over 17 Years	8.10	8.70	11.20	13.00
Cash/Cash Equivalents	1.50	1.60	0.00	0.00

PORTFOLIO'S CREDIT QUALITY STRUCTURE (%) *

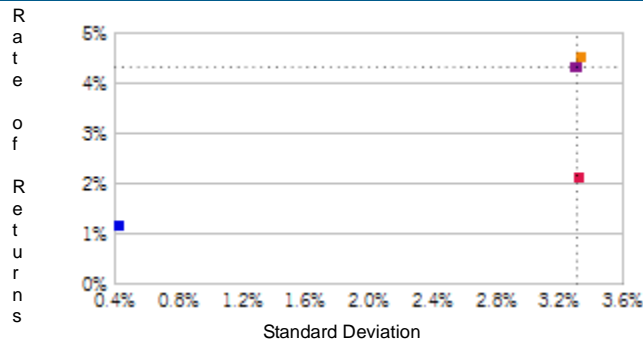
Investment Grade	06/20	03/20	12/19	09/19
AAA	51.80	60.10	58.90	59.90
AA	7.60	6.00	6.70	4.40
A	24.20	19.00	19.70	19.00
BBB	14.90	13.30	14.70	16.70

Below Investment Grade

BB	0.00	0.00	0.00	0.00
B	0.00	0.00	0.00	0.00
Below B	0.00	0.00	0.00	0.00
Not Rated	0.00	0.00	0.00	0.00
Cash/Cash Equivalents	1.50	1.60	0.00	0.00

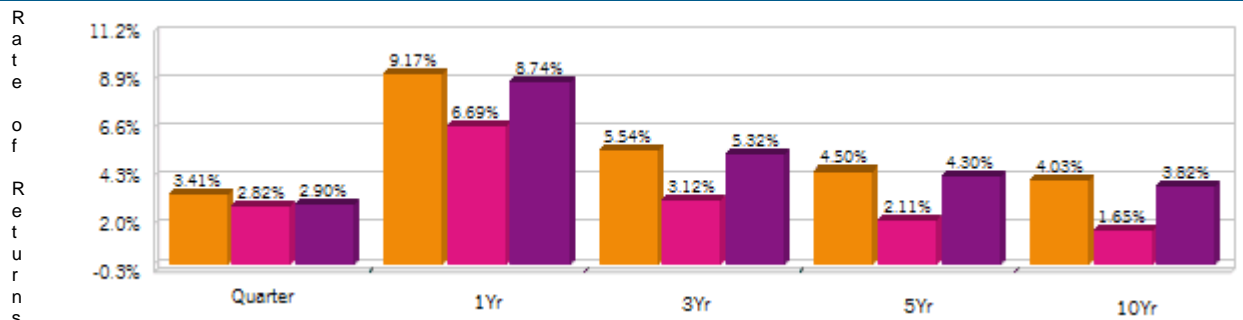
See important notes and disclosures pages for a discussion of the sources of the performance data used to calculate the performance results and related analyses shown above.

RISK/RETURN ANALYSIS - 5 YEARS ENDING 06/30/20



	STD	ROR
Segall (Gross)	3.34	4.50
Segall (Net)	3.33	2.11
BC Aggregate	3.31	4.30
90-Day T-Bills	0.43	1.15

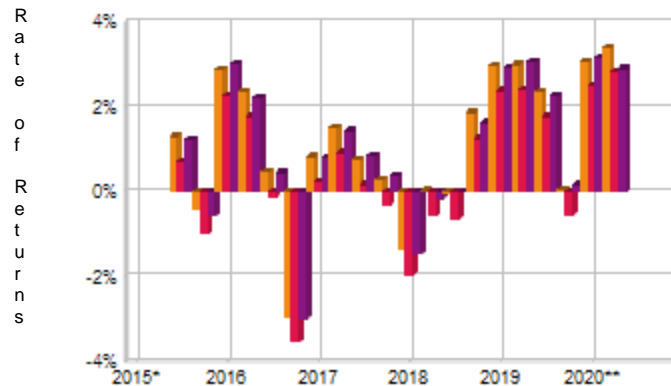
AVERAGE ANNUAL TOTAL RETURN (%) - PERIODS ENDING 06/30/20



INVESTMENT RESULTS

	Annual Rates of Return (%)										10 Year - Ending 06/30/20	
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Annual	Std. Dev.
Segall (Gross)	6.26	8.58	4.37	-1.98	6.57	0.79	2.65	3.43	0.46	8.64	4.03	3.27
Segall (Net)	3.84	6.10	1.99	-4.23	4.13	-1.51	0.30	1.06	-1.87	6.15	1.65	3.26
BC Aggregate	6.54	7.84	4.22	-2.02	5.96	0.55	2.65	3.54	0.01	8.72	3.82	3.15

RISK VOLATILITY (%)



*07/01/15-12/31/15

**01/01/20-06/30/20

	Number Of	Up Qtrs.	Down
Segall (Gross)		16	4
Segall (Net)		12	8
BC Aggregate		16	4

PORTFOLIO'S QUARTERLY RETURNS (%)

	Quarter1		Quarter2		Quarter3		Quarter4	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
2010	1.91	1.33	3.53	2.94	2.42	1.83	-1.68	-2.25
2011	0.67	0.09	2.21	1.62	4.38	3.79	1.10	0.51
2012	0.36	-0.22	2.13	1.54	1.56	0.98	0.26	-0.32
2013	0.04	-0.55	-2.47	-3.03	0.50	-0.09	-0.03	-0.61
2014	2.02	1.43	2.15	1.56	0.35	-0.23	1.90	1.31
2015	1.69	1.12	-1.78	-2.35	1.30	0.72	-0.39	-0.97
2016	2.87	2.28	2.36	1.77	0.47	-0.11	-2.97	-3.53
2017	0.83	0.25	1.52	0.93	0.76	0.17	0.29	-0.29
2018	-1.37	-1.95	0.03	-0.55	-0.04	-0.62	1.86	1.26
2019	2.98	2.39	3.00	2.40	2.37	1.78	0.05	-0.53
2020	3.07	2.49	3.41	2.82				

Related

Select UMA

PORTFOLIO'S RISK STATISTICS -€" PERIODS ENDING 06/30/20 ^{1 2}

	3 Year	5 Year
Standard Deviation	3.20%	3.34%
Standard Deviation of Primary Benchmark	3.11%	3.31%
Sharpe Ratio	1.19	1.00
Sharpe Ratio of Primary Benchmark	1.16	0.95
Alpha	0.11%	0.17%
Beta	1.03	1.01
Downside Risk	0.14%	0.13%
R-Squared	0.99	0.99
Tracking Error	0.38%	0.31%
Information Ratio	0.57	0.63

PORTFOLIO DIVERSIFICATION - R²(INCEPTION THROUGH 12/14)+

	R ²
Segall vs. BC Aggregate	0.99

+Statistics are calculated using gross of fee performance only.

1. Statistics are calculated using gross of fee performance only.
2. BC Aggregate was used as the primary benchmark and the 90-Day T-Bills Index as the risk-free benchmark.

IMPORTANT NOTES AND DISCLOSURES

COMPOSITE DISCLOSURES

The disclosures provided below apply to performance information in this profile, if any. Past performance is not a guarantee of future results. Actual individual account results may differ from the performance shown in this profile. There is no guarantee that this investment strategy will achieve its intended results under all market conditions. Do not rely upon this profile as the sole basis for your investment decisions.

Performance results in this profile are calculated assuming reinvestment of dividends and income. Returns for more than one calendar year are annualized and based on quarterly data. Returns for periods of less than a calendar year show the total return for the period and are not annualized. No representation is being made that any portfolio will or is likely to achieve profits or losses similar to those shown. Returns will fluctuate and an investment upon redemption may be worth more or less than its original value. Performance shown does not reflect the impact of fees and expenses of the underlying mutual fund and ETFs, as applicable.

Sources of Performance Results and Other Data: The performance data and certain other information for this strategy (including the data on page 1 of this profile) may include one or more of the following: (i) the performance results of a composite of Morgan Stanley accounts managed by the third party investment manager, (ii) the performance results for accounts and investment products managed by the third party investment manager, in the same or a substantially similar investment strategy outside of the applicable Morgan Stanley program, and/or (iii) in the case of Model Portfolio Strategies, the Model Portfolio Provider's results in managing accounts outside of the Morgan Stanley Select UMA program prior to Model Portfolio Strategy's inception in the Morgan Stanley Select UMA program. For periods through June 2012, the Fiduciary Services program operated through two channels – the Morgan Stanley channel and the Smith Barney channel and any performance and other data relating to Fiduciary Services accounts shown here for these periods is calculated using accounts in only one of the these channels.) Please note that the Fiduciary Services program was closed on January 2, 2018. Although the Fiduciary Services and Select UMA programs are both Morgan Stanley managed account programs, the performance results and other features of similar investment strategies in the two programs may differ due to investment and operational differences. Performance in one program is not indicative of potential performance in the other. For example, the individual investment strategies in Select UMA program accounts may contain fewer securities, which would lead to a more concentrated portfolio. The automatic rebalancing, wash sale loss and tax harvesting features of the Select UMA program, which are not available in Fiduciary Services, also could cause differences in performance. In addition, any performance results included in this profile that are based on a third party investment manager's accounts that are not part of the Morgan Stanley program accounts or institutional accounts that are part of the Model Portfolio strategy may differ due to investment and operational differences as well. As such, performance results of the third party investment manager's composites and the third party Model Portfolio Strategies may differ from those of Select UMA accounts managed in the same or a substantially similar investment strategy. For example, in the case of Model Portfolio Strategies, Morgan Stanley, as the investment manager, may deviate from the Third Party Model Portfolios.

With respect to those accounts that are subject to the Employee Retirement Income Security Act of 1974 and/or Section 4975 of the Internal Revenue Code of 1986, as amended, and are invested in an investment strategy managed by a Sub-Manager that is an affiliate of MSSB, the Sub-Manager fees will be reduced to 0.00%

Related Performance:

The performance composite calculated by Segall Bryant & Hamill includes the Core Fixed composite was created in October, 1994. The Core Fixed composite is a fixed income strategy which consists of domestic investment grade fixed income securities, the majority of which have a maturity of 10 years or less. Accordingly, the composite is benchmarked against the Barclays Capital Aggregate Bond Index. The Barclays Capital Aggregate Bond Index is a broad-based benchmark that measures the investment grade, US dollar-denominated, fixed-rate taxable bond market, including Treasuries, government-related and corporate securities, MBS (agency fixed-rate and hybrid ARM passthroughs), ABS, and CMBS. The Barclays Capital Aggregate Bond Index has a duration of 5.92 years and a maturity of 7.97 years. The Core Fixed composite is comprised of all fee paying, discretionary, tax-exempt, institutional accounts managed to this investment approach which have assets greater than \$1 million and one full quarter of returns. Accounts falling below the \$1 million threshold are not eligible for inclusion in the composite. In addition, accounts that have a significant cash flow, defined as 25% of the market value prior to 10/1/2012 and 10% of the market value beginning 10/1/2012, will be removed from the composite until the next reconciliation and calculation period. Prior to January 1, 2010, SBH carved out the fixed income segments and the equity segments of balanced portfolios by adjusting end-of-period cash according to target allocations. Due to new GIPS guidelines effective 1/1/2010, Balanced portfolio segments are no longer included which resulted in several accounts leaving the composite. Gross results are shown net of trading costs and include the reinvestment of all dividends and interest. Net results are shown net of management fees as well as trading costs and include the reinvestment of all dividends and interest. Net results reflect actual fees paid. Prior to October 1994, performance results reflect returns generated by the investment manager using this investment strategy at another firm. All information is based on US dollar values. Returns are calculated on a capitalization and time weighted basis and linked quarterly. Dispersion of returns is measured by an equal weighted standard deviation of all the accounts in the composite for a full year period. Neither the composite nor the benchmark returns reflect the withholding of any taxes for ordinary income or capital gains.

Morgan Stanley Performance:

Gross Performance: Segall's gross results do not reflect a deduction of any investment advisory fees or program fees, charged by Segall or Morgan Stanley, but are net of commissions charged on securities transactions.

Net Performance for all Periods: Net performance results reflect a deduction of 0.58% quarterly. This consists of three components: 0.5% maximum quarterly MS Advisory Fee and 0.0175% maximum quarterly Program Overlay Fee (which, together cover the services provided by Morgan Stanley), plus 0.0625% quarterly SMA Manager Fees (being the fee currently charged by Segall to new clients for managing their assets in the Select UMA program). The SMA Manager Fees may differ from manager to manager, and managers may change their fee to new clients from time to time. If you select this manager for your account, check the SMA Manager Fees specified in the written client agreement, in case these have changed since you received this profile. Historical net fees reflect the Advisory Fee Schedule as of October 1, 2018.

Morgan Stanley program fees are usually deducted quarterly, and have a compounding effect on performance. The Morgan Stanley program fee, which differs among programs and clients, is described in the applicable Morgan Stanley ADV brochure, which is available at www.morganstanley.com/ADV or on request from your Financial Advisor or Private Wealth Advisor.

Document approval date 04/2020. #CRC 3025936

Focus List, Approved List, and Watch Status:

Global Investment Manager Analysis ("GIMA") uses two methods to evaluate investment products in applicable advisory programs. In general, strategies that have passed a more thorough evaluation may be placed on the "Focus List", while strategies that have passed through a different and less comprehensive evaluation process may be placed on the "Approved List". Sometimes an investment product may be evaluated using the Focus List process but then placed on the Approved List instead of the Focus List.

Investment products may move from the Focus List to the Approved List, or vice versa. GIMA may also determine that an investment product no longer meets the criteria under either evaluation process and will no longer be recommended in investment advisory programs (in which case the investment product is given a "Not Approved" status).

GIMA has a "Watch" policy and may describe a Focus List or Approved List investment product as being on "Watch" if GIMA identifies specific areas that (a) merit further evaluation by GIMA and (b) may, but are not certain to, result in the investment product becoming "Not Approved". The Watch period depends on the length of time needed for GIMA to conduct its evaluation and for the investment manager to address any concerns. GIMA may, but is not obligated to, note the Watch status in this report with a "W" or "Watch" on the cover page.

For more information on the Focus List, Approved List, and Watch processes, please see the applicable Morgan Stanley ADV brochure (www.ms.com/adv). Your Financial Advisor or Private Wealth Advisor can provide on request a copy of a paper entitled "GIMA: At A Glance".

ADDITIONAL DISCLOSURES

The information about a representative account is for illustrative purposes only. Actual account holdings, performance and other data will vary depending on the size of an account, cash flows within an account, and restrictions on an account. Holdings are subject to change daily. The information in this profile is not a recommendation to buy, hold or sell securities.

Actual portfolio statistics may vary from target portfolio characteristics.

The Model Portfolio Provider or Investment Manager may use the same or substantially similar investment strategies, and may hold similar portfolios of investments, in other portfolios or products it manages (including mutual funds). These may be available at Morgan Stanley or elsewhere, and may cost an investor more or less than this strategy in Morgan Stanley's Select UMA program.

Overlay Managers or Executing Sub-Managers ("managers") in some of Morgan Stanley's Separately Managed Account ("SMA") programs may affect transactions through broker-dealers other than Morgan Stanley or our affiliates. If your manager trades with another firm, you may be assessed costs by the other firm in addition to Morgan Stanley's fees. Those costs will be included in the net price of the security, not separately reported on trade confirmations or account statements. Certain managers have historically directed most, if not all, of their trades to outside firms. Information provided by managers concerning trade execution away from Morgan Stanley is summarized at: www.morganstanley.com/wealth/investmentsolutions/pdfs/adv/sotresponse.pdf. For more information on trading and costs, please refer to the ADV Brochure for your program(s), available at www.morganstanley.com/ADV, or contact your Financial Advisor/Private Wealth Advisor.

The portfolio may, at times, invest in exchange-traded funds (ETFs), which are a form of equity security in seeking to maintain continued full exposure to the broad equity market.

Morgan Stanley investment advisory programs may require a minimum asset level and, depending on your specific investment objectives and financial position, may not be suitable for you. Investment advisory program accounts are opened pursuant to a written client agreement.

The investment manager acts independently of, and is not an affiliate of, Morgan Stanley Smith Barney LLC.

Diversification does not guarantee a profit or protect against a loss.

No obligation to notify

Morgan Stanley has no obligation to notify you when information in this profile changes.

Sources of information

Material in this profile has been obtained from sources that we believe to be reliable, but we do not guarantee its accuracy, completeness or timeliness. Third party data providers make no warranties or representations relating to the accuracy, completeness or timeliness of the data they provide and are not liable for any damages relating to this data.

No tax advice

Morgan Stanley and its affiliates do not render advice on legal, tax and/or tax accounting matters to clients. Each client should consult his/her personal tax and/or legal advisor to learn about any potential tax or other implications that may result from acting on a particular recommendation.

Not an ERISA fiduciary

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INDEX DESCRIPTIONS

90-Day T-Bills

The 90-Day Treasury Bill is a short-term obligation issued by the United States government. T-bills are purchased at a discount to the full face value, and the investor receives the full value when they mature. The difference of discount is the interest earned. T-bills are issued in denominations of \$10,000 auction and \$1,000 increments thereafter.

BC Aggregate

The Barclays Aggregate Index is composed of securities from the Barclays Government/Corporate Bond Index, Mortgage-Backed Securities Index and Asset-Backed Securities Index.

S&P 500

The S&P 500 Total Return has been widely regarded as the best single gauge of the large cap U.S. equities market since the index was first published in 1957. The index has over \$5.58 trillion benchmarked, with index assets comprising approximately \$1.31 trillion of this total. The index includes 500 leading companies in leading industries of the U.S. economy, capturing 75% coverage of U.S. equities. This index includes dividend reinvestment.

Indices are unmanaged and have no expenses. You cannot invest directly in an index.

GLOSSARY OF TERMS

Alpha is a mathematical estimate of risk-adjusted return expected from a portfolio above and beyond the benchmark return at any point in time.

American Depositary Receipts (ADRs) are receipts for shares of a foreign-based corporation held in the vault of a U.S. bank.

Average Portfolio Beta is a measure of the sensitivity of a benchmark or portfolio's rates of return to changes against a market return. The market return is the S&P 500 Index. It is the coefficient measuring a stock or a portfolio's relative volatility.

Beta is a measure of the sensitivity of a portfolio's rates of return to changes in the market return. It is the coefficient measuring a stock or a portfolio's relative volatility.

Bottom-Up Stock Selection Emphasis primarily on individual stock selection. Considerations of economic and industry factors are of secondary importance in the investment decision-making process.

Capitalization is defined as the following: Mega (Above \$100 billion), Large (\$12 to \$100 billion), Medium (\$2.5 - \$12 billion), Small (\$.50 - \$2.5 billion) and Micro (below \$.50 billion).

Distribution Rate is defined as the most recent distribution paid, annualized, and then divided by the current market price. Distribution rate may consist of investment income, short-term capital gains, long-term capital gains, and /or returns of capital.

Dividend a portion of a company's profit paid to common and preferred shareholders.

Dividend Yield annual dividend per share divided by price per share. Dividend Yield for the portfolio is a weighted average of the results for the individual stocks in the portfolio.

Downside Risk is a measure of the risk associated with achieving a specific target return. This statistic separates portfolio volatility into downside risk and upside uncertainty. The downside considers all returns below the target return, while the upside considers all returns equal to or above the target return.

Duration is a measure of price sensitivity expressed in years.

High Grade Corporate Bonds corporate bonds from issuers with credit ratings of AA or AAA.

Information Ratio is a measure of the investment manager's skill to add active value against a given benchmark relative to how stable that active return has been. Essentially, the information ratio explains how significant a manager's alpha is. Therefore, the higher the information ratio, the more significant the alpha.

Investment Grade Bonds are those rated by Standard & Poor's AAA (highest rated), AA, A or BBB (or equivalent rating by other rating agencies or, in the case of securities not rated, by the investment manager).

Price/Book Ratio (P/B) weighted average of the stocks' price divided by book value per share. Book value per share is defined as common equity, including intangibles, divided by shares outstanding times the adjustment factor.

Price/Cash Flow Ratio a ratio used to compare a company's market value to its cash flow. It is calculated by dividing the company's market cap by the company's operating cash flow in the most recent fiscal year (or the most recent four fiscal quarters); or, equivalently, divide the per-share stock price by the per-share operating cash flow.

Price/Earnings Ratio (P/E Ratio) shows the multiple of earnings at which a stock sells. Determined by dividing current stock price by current earnings per share (adjusted for stock splits). Earnings per share for the P/E ratio are determined by dividing earnings for past 12 months by the number of common shares outstanding. The P/E ratio shown here is calculated by the harmonic mean.

Price/Sales Ratio determined by dividing current stock price by revenue per share (adjusted for stock splits). Revenue per share for the P/S ratio is determined by dividing revenue for past 12 months by number of shares outstanding.

R2 (R-Squared)/Portfolio Diversification indicates the proportion of a security's total variance that is benchmark-related or is explained by variations in the benchmark.

Sharpe Ratio measures the efficiency, or excess return per unit of volatility, of a manager's returns. It evaluates managers' performance on a volatility-adjusted basis.

Standard Deviation is a statistical measure of historical variability or spread of returns around a mathematical average return that was produced by the investment manager over a given measurement period. The higher the standard deviation, the greater the variability in the investment manager's returns relative to its average return.

Top-Down/Economic Analysis Emphasis primarily on macroeconomic trends as opposed to bottom-up stock selection.

Tracking Error represents the standard deviation of the difference between the performance of the investment strategy and the benchmark. This provides a historical measure of the variability of the investment strategy's returns relative to its benchmark.

U.S. Treasury Bonds a marketable, fixed interest U.S. government debt security with a maturity of more than 10 years. Treasury bonds make interest payments semi-annually and the income that holders receive is only taxed at the federal level.

Volatility a measure of risk based on the standard deviation of the asset return. Volatility is a variable that appears in option pricing formulas, where it denotes the volatility of the underlying asset return from now to the expiration of the option. There are volatility indexes. Such as a scale of 1-9; a higher rating means higher risk.