

## Mellon Investments Corporation

One Boston Place, 201 Washington Street  
Boston, Massachusetts 02108

Style: US Large Cap Value  
Sub-Style: Traditional Value  
Firm AUM: \$3.5 billion  
Firm Strategy AUM: \$4.8 billion

Year Founded: 1983  
GIMA Status: Approved  
Firm Ownership: Mellon Investments Corporation  
Professional-Staff: 500

### PRODUCT OVERVIEW

We believe successful investing can be achieved through a philosophy that is value oriented, research driven and risk managed. Our investment objective is focused on identifying attractively valued equities with strong fundamentals and catalyst-driven business improvement. The process seeks to add value through fundamental research primarily and bottom up security and industry research. This process combined with a well-resourced team of expert sector/industry analysts, and a stable, tenured portfolio management team has generated alpha over our investment horizon. While past performance cannot guarantee future results, we believe that this process and team will continue to generate the potential for strong risk-adjusted returns in the future.

### TARGET PORTFOLIO CHARACTERISTICS

Number of stock holdings:	65 to 100
P/E ratio:	Below the S&P 500
Cash level over market cycle:	0 to 1%
Risk (standard deviation):	Above the S&P 500
Average turnover rate:	50 to 100%
Use ADRs:	No
Capitalization:	Mega, Large and Medium companies

### PORTFOLIO'S EQUITY SECTOR WEIGHTINGS \*

Sector	-----06/20-----		12/19
	BNY Mellon	Index***	BNY Mellon
Energy	6.62	5.28	10.70
Materials	8.11	4.48	9.70
Industrials	10.21	12.34	8.70
Consumer Discretionary	5.68	6.98	3.60
Consumer Staples	4.33	8.12	4.20
Health Care	15.64	14.08	10.70
Financials	26.71	18.52	32.10
Information Technology	13.72	10.22	9.20
Communication Services	2.31	9.33	4.80
Utilities	3.81	5.91	4.10
Real Estate/REITs	0.49	4.75	0.00
Cash/Cash Equivalents	2.36	0.00	2.30

### PORTFOLIO STATISTICS

	-----06/20-----		12/19
	BNY Mellon	Index***	BNY Mellon
Number of stock holdings	76	839	76
Dividend Yield	2.3%	2.6%	2.1%
Distribution Rate	—	—	—
Wtd avg P/E ratio <sup>1</sup>	23.10x	16.70x	18.50x
Wtd avg portfolio beta	—	—	1.10
Mega capitalization <sup>+</sup>	0.0%	38.2%	0.0%
Large capitalization <sup>+</sup>	0.0%	47.2%	0.0%
Medium capitalization <sup>+</sup>	0.0%	13.9%	0.0%
Small capitalization <sup>+</sup>	0.0%	0.6%	0.0%
Micro capitalization <sup>+</sup>	0.0%	0.0%	0.0%

### PORTFOLIO'S TOP FIVE EQUITY HOLDINGS

	%
JPMorgan Chase & Co.	4.0
Berkshire Hathaway Inc. Class B	3.8
Goldman Sachs Group, Inc.	3.4
Medtronic Plc	3.0
Morgan Stanley	3.0

### % PROCESS BASED ON

0	Asset allocation - cash vs. stock
0	Industry or sector weighting
100	Stock Selection

### MANAGER'S INVESTMENT STRATEGY

- Top-down / portfolio structures based on economic trends  
 Bottom-up / portfolio structure based on individual securities

<sup>1</sup>The P/E used here is calculated by the harmonic mean.

<sup>+</sup>Total may not equal 100% due to rounding.

<sup>\*\*\*</sup>Index : Russell 1000 VI

**MANAGER'S INVESTMENT PROCESS**

- In order to identify a manageable number of names for inclusion on a fundamental working list, we use quantitative and qualitative screens.
- The goal of the qualitative or fundamental screen is to help uncover alpha opportunities not yet reflected in quantitative data (e.g. management changes, beneficial supply/demand, product cycles, etc.). Either method can identify a security for potential consideration.
- The dedicated team takes responsibility for conducting fundamental research on those names consistent with assigned sector coverage. A large number of research inputs are utilized, including our proprietary Global Research team, but there is no one-size-fits-all approach to the work.
- Ultimately, the team analyst makes a buy/pass recommendation, supported by up/down price targets, investment thesis factors (valuation, fundamentals, and business improvement) and potential risks.
- The lead portfolio manager makes the final determination on whether a security is added to the portfolio and what the specific security weightings need to be. Importantly during this final step, decisions are made in the context of the portfolio's overall risk profile. The result is a large-cap value portfolio that is attractive from a risk/reward standpoint and consistent with the client's overall investment objective and related guidelines

**RISK CONSIDERATIONS**

Equity securities prices may fluctuate in response to specific situations for each company, industry, market conditions and general economic environment. Companies paying dividends can reduce or cut payouts at any time. Strategies that invest a large percentage of assets in only one industry sector (or in only a few sectors) are more vulnerable to price fluctuation than portfolios that diversify among a broad range of sectors. Investing in securities entails risks, including: When investing in value securities, the market may not necessarily have the same value assessment as the manager, and, therefore, the performance of the securities may decline. Value investing involves the risk that the market may not recognize that securities are undervalued and they may not appreciate as anticipated. 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 ALLOCATION HISTORY (%)<sup>+</sup>**

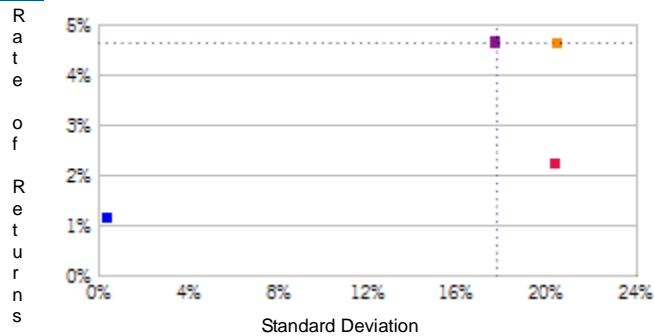
	06/20	03/20	12/19	09/19
U.S. Stocks	98	97	98	98
Cash/Cash Equivalents	2	3	2	2

<sup>1</sup>The P/E used here is calculated by the harmonic mean.

<sup>+</sup>Total may not equal 100% due to rounding.

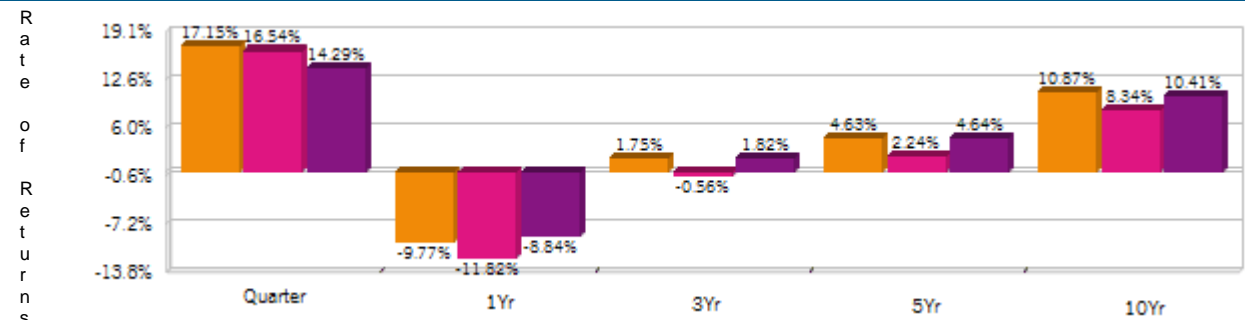
<sup>\*\*\*</sup>Index : Russell 1000 VI

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



	STD	ROR
BNY Mellon (Gross)	20.50	4.63
BNY Mellon (Net)	20.42	2.24
Russell 1000 VI	17.75	4.64
90-Day T-Bills	0.43	1.15

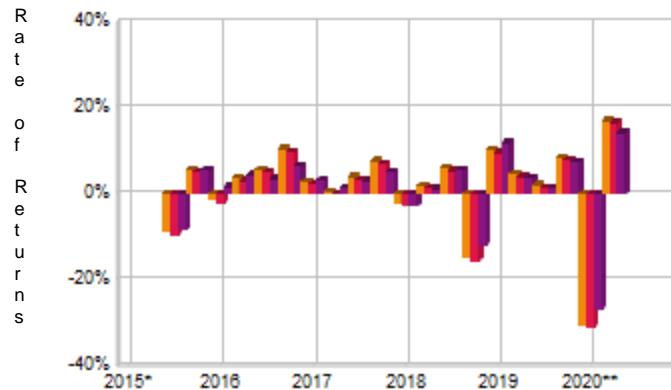
## AVERAGE ANNUAL TOTAL RETURN (%) - PERIODS ENDING 06/30/20



## 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.
BNY Mellon (Gross)	15.65	-5.28	19.17	39.15	11.43	-1.31	19.47	15.99	-9.81	27.94	10.87	18.55
BNY Mellon (Net)	13.01	-7.41	16.43	36.05	8.80	-3.58	16.68	13.32	-11.90	25.07	8.34	18.47
Russell 1000 VI	15.51	0.39	17.50	32.54	13.46	-3.84	17.33	13.66	-8.27	26.54	10.41	15.77

## RISK VOLATILITY (%)



\*07/01/15-12/31/15      \*\*01/01/20-06/30/20

	Number Of	Up Qtrs.	Down Qtrs.
BNY Mellon (Gross)	15	5	5
BNY Mellon (Net)	14	6	6
Russell 1000 VI	16	4	4

## PORTFOLIO'S QUARTERLY RETURNS (%)

	Quarter1		Quarter2		Quarter3		Quarter4	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
2010	6.30	5.65	-12.86	-13.36	10.34	9.73	13.15	12.50
2011	6.34	5.73	-0.51	-1.08	-21.95	-22.43	14.72	14.13
2012	12.41	11.79	-5.97	-6.53	8.64	8.01	3.78	3.17
2013	12.30	11.68	5.36	4.75	5.63	5.04	11.34	10.71
2014	2.62	1.99	3.13	2.52	0.88	0.27	4.37	3.77
2015	1.88	1.26	0.57	-0.02	-8.88	-9.41	5.70	5.13
2016	-1.45	-2.07	3.69	3.10	5.74	5.14	10.58	9.92
2017	2.88	2.28	0.53	-0.06	4.07	3.47	7.76	7.13
2018	-2.14	-2.69	2.07	1.48	6.11	5.51	-14.91	-15.45
2019	10.25	9.65	4.70	4.12	2.14	1.55	8.51	7.88
2020	-30.51	-30.93	17.15	16.54				

Related      Select UMA

## PORTFOLIO'S RISK STATISTICS -€<sup>1</sup> PERIODS ENDING 06/30/20 <sup>1 2</sup>

	3 Year	5 Year
Standard Deviation	25.26%	20.50%
Standard Deviation of Primary Benchmark	22.04%	17.75%
Sharpe Ratio	0.00	0.17
Sharpe Ratio of Primary Benchmark	0.00	0.20
Alpha	0.42%	-0.14%
Beta	1.14	1.14
Downside Risk	3.15%	2.85%
R-Squared	0.99	0.98
Tracking Error	4.08%	4.04%
Information Ratio	-0.02	0.00

## PORTFOLIO DIVERSIFICATION - R<sup>2</sup>(INCEPTION THROUGH 12/14)+

	R <sup>2</sup>
BNY Mellon vs. Russell 1000 VI	0.97

+Statistics are calculated using gross of fee performance only.

1. Statistics are calculated using gross of fee performance only.
2. Russell 1000 VI was used as the primary benchmark and the 90-Day T-Bills Index as the risk-free benchmark.

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.

## 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 Mellon Investments Corporation includes The US Dynamic Large Cap Value composite measures the total return of all fee-paying, discretionary, equity portfolios that primarily invest in large capitalization U.S. value companies. Large capitalization companies are those with a market capitalization within the same general range as the issuers included in the benchmark. The strategy can invest in American Depositary Receipts. Prior to January 1, 2010 the composite excluded accounts domiciled outside of the U.S. Minimum portfolio size for inclusion is \$1 million. Effective November 1, 2015, this composite adopted a significant cash flow policy where portfolios will be removed temporarily from the composite for the month in which there is a client-initiated cash flow (on a net daily basis) of 30% or more of the portfolio's prior day ending market value. The portfolio is returned to the composite the next month. From January 1, 2006 through October 31, 2015 any portfolio that experienced a client-initiated cash flow (on a net daily basis) that was 30% or more of the portfolio's beginning-of-month market value was removed temporarily from the composite. Additional information regarding the treatment of significant cash flows is available upon request. The Mellon Investments Corporation's composite performance is presented before and after the deduction of investment advisory fees and after the deduction of transaction costs.

**Morgan Stanley Performance:**

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

**Net Performance for all Periods:** Net performance results reflect a deduction of 0.5875% 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 0.07% quarterly SMA Manager Fees (being the fee currently charged by BNY Mellon 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](http://www.morganstanley.com/ADV) or on request from your Financial Advisor or Private Wealth Advisor.

Document approval date 09/2019. #CRC 2636010

**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](http://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](http://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](http://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*

Morgan Stanley is not acting as a fiduciary under either the Employee Retirement Income Security Act of 1974, as amended, or under section 4975 of the Internal Revenue Code of 1986, as amended, in providing the information in this profile.

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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.

##### Russell 1000 VI

The Russell 1000 Value Index is representative of the U.S. market for large capitalization stocks containing those companies in the Russell 1000 Index with lower price-to-book ratios and lower forecasted growth.

**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' 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.