

APRIL 2023 – MARKET REVIEW

April 6, 2023

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AssetGrade Market Summary – April 2023 Review – Markets Improving While Economy Slows Down

- Investors enjoyed gains across both equities and fixed income in First Quarter 2023. International markets, specifically developed market equities as measured by the MSCI EAFE Index outperformed all other asset classes. Warmer weather in Europe coupled with the reopening of China has contributed to the growth overseas.
- After being the best performer by a wide margin in 2022, only Commodities posted a negative return in the First Quarter 2023. A slower economy and manufacturing activity has contributed to a slowdown in demand for metal commodities.
- International equities still look favorable in 2023, as their valuations are cheaper relative to their historical valuations than their US counterparts.
- The Federal Reserve raised its benchmark Fed Funds rate to a range of 4.75-5.00%, the highest level in more than 15 years. If the inflation rate continues to fall, we anticipate the Fed may stop raising rates over the next year.

Why is the Consumer so Important to the Economy?

- The consumer represents over 67% of GDP and consumer spending is a big driver of economic growth.
 Consumer spending was strong the past three years due to the stimulus and unemployment checks. We anticipate slower economic growth in 2023 due to a slow down in consumer spending.
- The consumers' personal savings rate is the difference between disposable income and consumer spending. The historical average personal savings rate was 8.9%. The personal savings rate fell to 2.4% in 2022, and in First Quarter 2023 it increased to 4.5%. As consumers save more and pay off their mounting credit card debt, they spend less, which could lead to a slow down in the economy.
- The inflation story is getting better. After inflation peaked in June 2022 at 9.0%, as measured by the Consumer Price Index, inflation has steadily declined and we anticipate it continuing to decline in 2023. Rents/shelter remain high, however according to recent surveys the rental crisis is easing as more supply is available.
- Staying diversified and taking a long-term approach matters. Many investors felt uneasy during last year's volatile markets. If you have financial plan that appropriately considers your goals and time horizon, do not overreact to market forces. Instead, look beyond the short term and focus on the long- term. If your financial plan and goals have not changed, then stay invested for your future success!

ASSET GRADE

AssetGrade Market Summary - Asset Class Returns

| | | | | | | | | | | | | | | | | 2008 - 2022 | | |
|------------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|------------------|-----------------|-------------------------|-----------------|------------------|----------------|----------------|-----------------|--|
| 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | YTD | Ann. | Vol. | |
| Fixed Income | EM Equity | REITs | REITs | RETs | Small Cap | REITs | REITs | Small Cap | EM Equity | Cash | Large Cap | Small Cap | REITs | Comdty. | DM Equity | Large Cap | REITs | |
| 5.2% | 79.0% | 27.9% | 8.3% | 19.7% | 38.8% | 28.0% | 2.8% | 21.3% | 37.8% | 1.8% | 31.5% | 20.0% | 41.3% | 16.1% | 8.6% | 8.8% | 23.4% s: | |
| Cash | High Yield | Small | Fixed | High Yield | Large | Large | Large | High Yield | DM | Fixed | REITs | EM Equity | Large Cap | Cash | Large Cap | Small | Small d | |
| 1.8% | 59.4% | Cap 26.9% | Income 7.8% | 19.6% | Cap 32.4% | Cap 13.7% | Cap 1.4% | 14.3% | Equity 25.6% | Income 0.0% | 28.7% | 18.7% | 28.7% | 1.5% | 7.5% | Cap 7.2% | 23.2% | |
| Asset | DM | EM | High | EM | DM | Fixed | Fixed | Large | Large | REITs | Small | Large | Comdty. | High | Asset | REITs | EM | |
| Alloc. -25,4% | Equity 32.5% | Equity 19.2% | Yield 3.1% | Equity 18.6% | Equity 23.3% | Income 6.0% | Income 0.5% | Cap 12.0% | Cap 21.8% | -4.0% | Cap 25.5% | Cap 18.4% | 27.1% | Yie ld -12.7% | Alloc. 4.3% | 6.6% | Equity 23.0% | |
| High | REITs | Comdty. | Large | DM | Asset | Asset | Cash | Comdty. | Small | High | DM | Asset | Small | Fixed | EM | Asset | Comdty. | |
| Yie ld -26.9% | 28.0% | 16.8% | Cap 2.1% | Equity 17.9% | Allec. 14/9% | —Allec. 5.2% | 0.0% | 11.8% | Cap 14.6% | Yield -4.1% | Equity 22.7% | A n oc. 10.6% | Cap 14.8% | Income -13.0% | Equity 4.0% | Alloc. 6.1% | 20.2% | |
| Small | Small | Large | Cash | Small | ligh | Small | DM | EM | Asset | Large | Asset | DM | Asset | Asset | High | High | DM | |
| Cap -33.8% | Cap 27.2% | Cap 15.1% | 0.1% | Cap 16.3% | Yield 7.3% | Cap 4.9% | Equity -0.4% | Equity 11.6% | Allos. 14.6% | Cap -4.4% | Alfoc. 19.5% | Equity 8.3% | Alloc. 13.5% | Alloc. -13.9% | Yield 3.1% | Yield 5.4% | Equity 20.0% | |
| | Large | High | Asset | Large | | | Asset | | High | Asset | EM | Fixed | DM | DM | Fixed | Fixed | Large | |
| Comdty. | Сар | Yield | Allec. | Cap / | RETs | Cash | Allec. | REITs | Yield | Alloc. | Equity | Income | Equity | Equity | Income | Income | Сар | |
| -35.6% | 26.5% | 14.8% | -0.7% | 16.0%/ | 2.9% | 0.0% | -2.0% | 8.6% | 10.4% | -5.8% | 18.9% | 7.5% | 11.8% | -14.0% | 3.0% | 2.7% | 17.7% | |
| Large Cap | Asset Alloc. | Asset Alløc. | Sm all Cap | Asset Alloc. | Cash | High Yield | High Yield | Asset Allec. | RETs | Small Cap | High Yield | High Yield | High Yield | Large Cap | Small Cap | DM Equity | High Yield | |
| -37.0% | 25.0% | 13.3% | -4.2% | 12.2% | 0.0% | 0.0% | -2.7% | 8.3% | 8.7% | -11.0% | 12.6% | 7.0% | 1.0% | -18.1% | 2.7% | 2.3% | 13.0% | |
| R⊟Ts | Comdty. | DM | DM | Fixed | Fixed | EM | Small | Fixed | Fixe d | Comdty. | Fixed | Cash | Cash | EM | REITs | EM | Asset | |
| -37.7% | 18.9% | Equity 8.2% | Equity -11.7% | Income 4.2% | Income -2.0% | Equity -1.8% | Cap -4.4% | Income 2.6% | Income 3.5% | -11.2% | Income 8.7% | 0.5% | 0.0% | Equity -19.7% | 1.7% | Equity 1.0% | Alloc. 12.4% | |
| DM | Fixed | Fixed | Comdty. | Cash | EM | DM | EM | DM | Com dty. | DM | Comdty. | Comdty. | Fixed | Small | Cash | Cash | Fixed | |
| Equity -43.1% | Income 5.9% | Income 6.5% | -13.3% | 0.1% | Equity -2.3% | Equity -4.5% | Equity -14.6% | Equity 1.5% | 1.7% | Equity -13.4% | 7.7% | -3.1% | Income -1.5% | Cap -20.4% | 1.1% | 0.6% | Income 4.2% | |
| EM | Cash | Cash | EM | Comdty. | Comdty. | Comdty. | Comdty. | Cash | Cash | EM | Cash | RETs | EM | RETs | Comdty. | Comdty. | Cash | |
| Equity | | | Equity | • | • | | • | | | Equity | | | Equity | | | • | | |
| -53.2% | 0.1% | 0.1% | -18.2% | -1.1% | -9.5% | -17.0% | -24.7% | 0.3% | 0.8% | -14.2% | 2.2% | -5.1% | -2.2% | -24.9% | -8.0% | -2.6% | 0.4% | |

Source: Bloomberg, FactSet, MSCI, NAREIT, Russell, Standard & Poor's, J.P. Morgan Asset Management.

Large cap: S&P 500, Small cap: Russell 2000, EM Equity: MSCI EME, DM Equ



AssetGrade Market Summary – S&P 500 Valuation Measures

S&P 500 Index: Forward P/E ratio



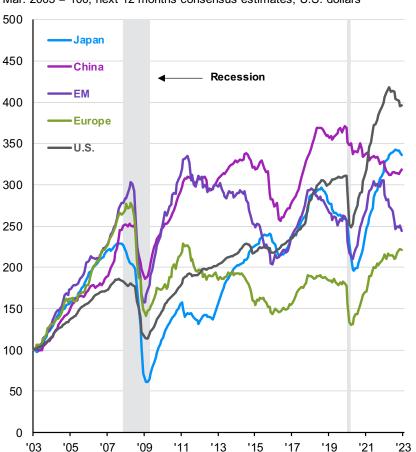
Source: FactSet, FRB, Refinitiv Datastream, Robert Shiller, Standard & Poor's, Thomson Reuters, J.P. Morgan Asset Management.

Price-to-earnings is price divided by consensus analyst estimates of earnings per share for the next 12 months as provided by IBES since March 1998 and by FactSet since January 2022. Current next 12-months consensus earnings estimates are \$228\$. Average P/E and standard deviations are calculated using 25 years of history. Shiller's P/E uses trailing 10-years of inflation-adjusted earnings as reported by companies. Dividend yield is calculated as the next 12-months consensus dividend divided by most recent price. Price-to-book ratio is the price divided by book value per share. Price-to-cash flow is price divided by NTM cash flow. EY minus Baa yield is the forward earnings yield (consensus analyst estimates of EPS over the next 12 months divided by price) minus the Moody's Baa seasoned corporate bond yield. Std. dev. over-/under-valued is calculated using the average and standard deviation over 25 years for each measure. *P/CF is a 20-year average due to cash flow availability. Guide to the Markets — U.S. Data are as of March 31, 2023.

AssetGrade Market Summary - International Equity Earnings and Valuations

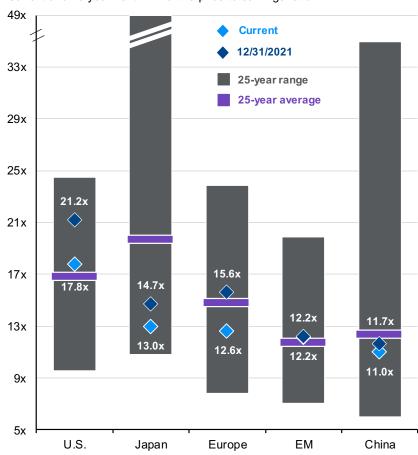
Global earnings estimates

Mar. 2003 = 100, next 12 months consensus estimates, U.S. dollars



Global valuations

Current and 25-year next 12 months price-to-earnings ratio



Source: FactSet, MSCI, Standard & Poor's, Thomson Reuters, J.P. Morgan Asset Management.

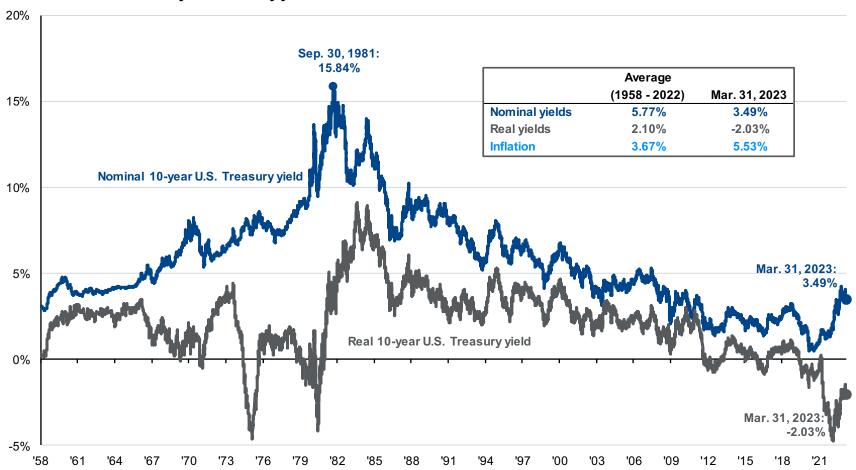
Next 12 months consensus estimates are based on pro-forma earnings and are in U.S. dollars. MSCI Europe includes the eurozone as well as countries not in the currency bloc, such as Norway, Sweden, Switzerland and the UK (which collectively make up 44% of the overall index). Past performance is not a reliable indicator of current and future results.

Guide to the Markets – U.S. Data are as of March 31, 2023.



AssetGrade Market Summary - Interest Rates and Inflation

Nominal and real U.S. 10-year Treasury yields

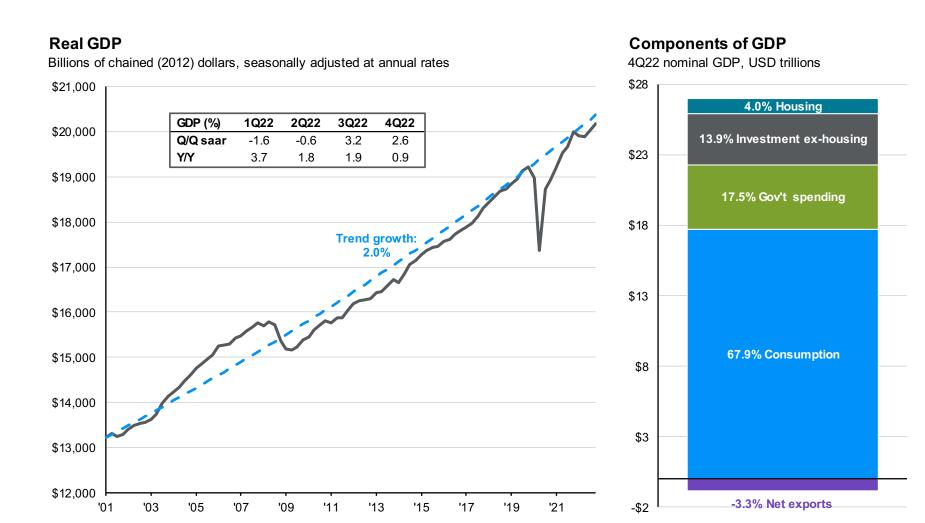


Source: BLS, FactSet, Federal Reserve, J.P. Morgan Asset Management.

Real 10-year Treasury yields are calculated as the daily Treasury yield less year-over-year core CPI inflation for that month. For the current month, we use the prior month's core CPI figures until the latest data is available. *Guide to the Markets – U.S.* Data are as of March 31, 2023.



AssetGrade Market Summary - Economic Growth and GDP



Source: BEA, FactSet, J.P. Morgan Asset Management. Values may not sum to 100% due to rounding. Trend growth is measured as the average annual growth rate from business cycle peak 1Q01 to business cycle peak 4Q19.

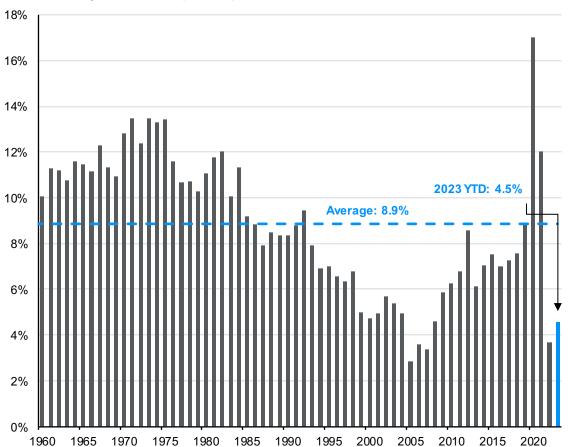
Guide to the Markets – U.S. Data are as of March 31, 2023.



AssetGrade Market Summary – Consumer Saving & Borrowing

Personal saving rate

Personal savings as a % of disposable personal income, annual



Revolving consumer credit outstanding

USD trillions, SA

1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4

Revolving consumer credit outstanding

'00 '02 '04 '06 '08 '10 '12 '14 '16 '18 '20 '22

% of disposable income, SAAR

10%

9%

8%

7%

6.2%

6%

5%

100 '02 '04 '06 '08 '10 '12 '14 '16 '18 '20 '22

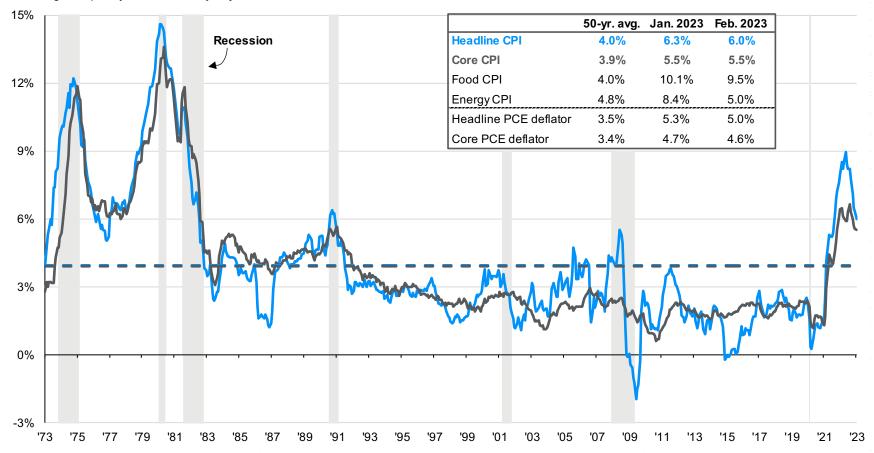
Source: BEA, Federal Reserve, J.P. Morgan Asset Management. *Guide to the Markets – U.S.* Data are as of March 31, 2023.



AssetGrade Market Summary – Inflation is Falling

CPI and core CPI

% change vs. prior year, seasonally adjusted



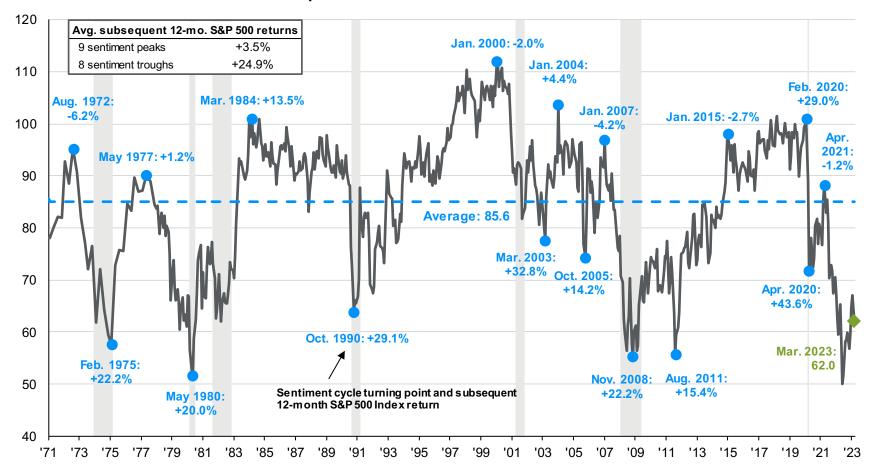
Source: BLS, FactSet, J.P. Morgan Asset Management.
CPI used is CPI-U and values shown are % change vs. one year ago. Core CPI is defined as CPI excluding food and energy prices. The Personal Consumption Expenditure (PCE) deflator

employs an evolving chain-weighted basket of consumer expenditures instead of the fixed-weight basket used in CPI calculations. Guide to the Markets – U.S. Data are as of March 31, 2023.



AssetGrade Market Summary - Consumer Confidence and the Stock Market

Consumer Sentiment Index and subsequent 12-month S&P 500 returns



Source: FactSet, Standard & Poor's, University of Michigan, J.P. Morgan Asset Management.

Peak is defined as the highest index value before a series of lower lows, while a trough is defined as the lowest index value before a series of higher highs. Subsequent 12-month S&P 500 returns are price returns only, which excludes dividends. Past performance is not a reliable indicator of current and future results.

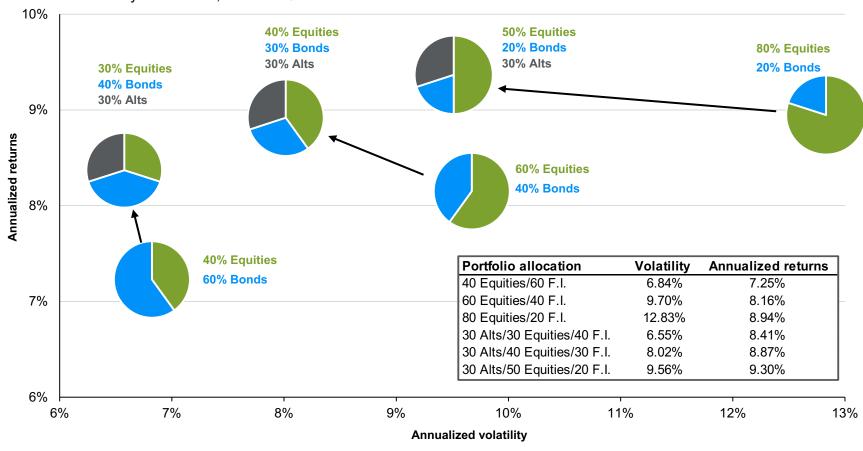
Guide to the Markets – U.S. Data are as of March 31, 2023.



AssetGrade Market Summary - Portfolio Diversification

Alternatives and portfolio risk/return

Annualized volatility and returns, 1989 - 3Q22

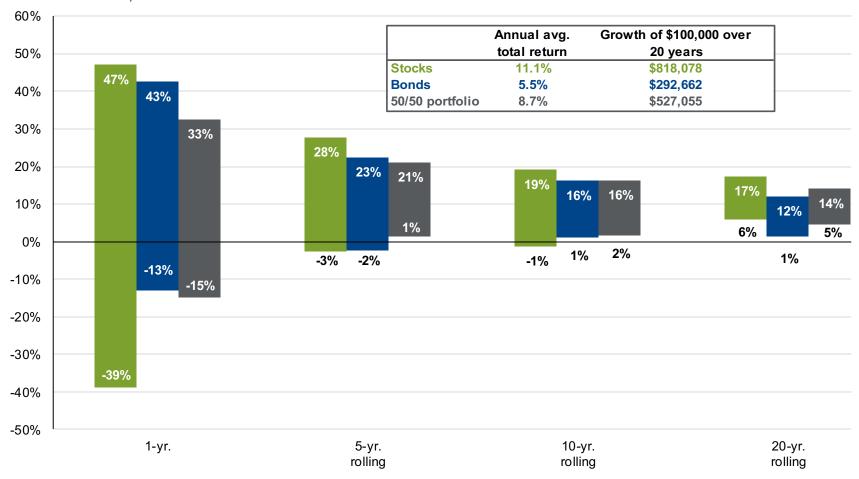


Source: Bloomberg, Burgiss, FactSet, HRFI, NCREIF, Standard & Poor's, J.P. Morgan Asset Management. Alts include hedge funds, real estate and private equity, with each receiving an equal weight. Portfolios are rebalanced at the start of the year. This slide comes from our <u>Quide to Alternatives</u>. *Guide to the Markets – U.S.* Data are as of March 31, 2023.

AssetGrade Market Summary - Time, Diversification and the Volatility of Returns

Range of stock, bond and blended total returns

Annual total returns, 1950-2022



Source: Bloomberg, FactSet, Federal Reserve, Robert Shiller, Strategas/lbbotson, J.P. Morgan Asset Management.
Returns shown are based on calendar year returns from 1950 to 2021. Stocks represent the S&P 500 Shiller Composite and Bonds represent Strategas/lbbotson for periods from 1950 to 2010 and Bloomberg Aggregate thereafter. Growth of \$100,000 is based on annual average total returns from 1950 to 2022.
Guide to the Markets – U.S. Data are as of March 31, 2023.



Appendix

Disclosures

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All indexes are unmanaged, and an individual cannot invest directly in an index. Index returns do not include fees or expenses.

Eauities:

The **Dow Jones Industrial Average** is a price-weighted average of 30 actively traded blue-chip U.S. stocks.

The MSCI ACWI (All Country World Index) is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets.

The MSCI EAFE Index(Europe, Australasia, Far East) is a free float-adjusted market capitalization index that is designed to measure the equity market performance of developed markets, excluding the US & Canada.

The MSCI Emerging Markets Index is a free float-adjusted market capitalization index that is designed to measure equity market performance in the global emerging markets.

The MSCI Europe Index is a free float-adjusted market capitalization index that is designed to measure developed market equity performance in Europe.

The MSCI Pacific Index is a free float-adjusted market capitalization index that is designed to measure equity market performance in the Pacific region.

The Russell 1000 Index® measures the performance of the 1,000 largest companies in the Russell 3000.

The Russell 1000 Growth Index® measures the performance of those Russell 1000 companies with higher price-to-book ratios and higher forecasted growth values.

The Russell 1000 Value Index® measures the performance of those Russell 1000 companies with lower price-to-book ratios and lower forecasted growth values.

The Russell 2000 Index® measures the performance of the 2,000 smallest companies in the Russell 3000 Index.

The Russell 2000 Growth Index® measures the performance of those Russell 2000 companies with higher price-to-book ratios and higher forecasted growth values.

The Russell 2000 Value Index® measures the performance of those Russell 2000 companies with lower price-to-book ratios and lower forecasted growth values.

The Russell 3000 Index® measures the performance of the 3,000 largest U.S. companies based on total market capitalization.

The Russell Midcap Index® measures the performance of the 800 smallest companies in the Russell 1000 Index.

The **Russell Midcap Growth Index** ® measures the performance of those Russell Midcap companies with higher price-to-book ratios and higher forecasted growth values. The stocks are also members of the Russell 1000 Growth index.

The **Russell Midcap Value Index** ® measures the performance of those Russell Midcap companies with lower price-to-book ratios and lower forecasted growth values. The stocks are also members of the Russell 1000 Value index.

The **S&P 500 Index** is widely regarded as the best single gauge of the U.S. equities market. The index includes a representative sample of 500 leading companies in leading industries of the U.S. economy. The **S&P 500 Index** focuses on the large-cap segment of the market: however, since it includes a significant portion of the total value of the market, it also represents the market.

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Disclosures

Fixed income:

The **Bloomberg Barclays 1-3 Month U.S. Treasury Bill Index** includes all publicly issued zero-coupon US Treasury Bills that have a remaining maturity of less than 3 months and more than 1 month, are rated investment grade, and have \$250 million or more of outstanding face value. In addition, the securities must be denominated in U.S. dollars and must be fixed rate and non convertible.

The **Bloomberg Barclays Global High Yield Index** is a multi-currency flagship measure of the global high yield debt market. The index represents the union of the US High Yield, the Pan-European High Yield, and Emerging Markets (EM) Hard Currency High Yield Indices. The high yield and emerging markets sub-components are mutually exclusive. Until January 1, 2011, the index also included CMBS high vield securities.

The **Bloomberg Barclays Municipal Index**: consists of a broad selection of investment-grade general obligation and revenue bonds of maturities ranging from one year to 30 years. It is an unmanaged index representative of the tax-exempt bond market.

The Bloomberg Barclays US Dollar Floating Rate Note (FRN) Index provides a measure of the U.S. dollar denominated floating rate note market.

The **Bloomberg Barclays US Corporate Investment Grade Index** is an unmanaged index consisting of publicly issued US Corporate and specified foreign debentures and secured notes that are rated investment grade (Baa3/BBB or higher) by at least two ratings agencies, have at least one year to final maturity and have at least \$250 million par amount outstanding. To qualify, bonds must be SEC-registered.

The **Bloomberg Barclays US High Yield Index** covers the universe of fixed rate, non-investment grade debt. Eurobonds and debt issues from countries designated as emerging markets (sovereign rating of Baa1/BBB+/BBB+ and below using the middle of Moody's, S&P, and Fitch) are excluded, but Canadian and global bonds (SEC registered) of issuers in non-EMG countries are included.

The **Bloomberg Barclays US Mortgage Backed Securities Index** is an unmanaged index that measures the performance of investment grade fixed-rate mortgage backed pass-through securities of GNMA, FNMA and FHLMC.

The Bloomberg Barclays US TIPS Index consists of Inflation-Protection securities issued by the U.S. Treasury.

The J.P. Morgan Emerging Market Bond Global Index(EMBI)includes U.S. dollar denominated Brady bonds, Eurobonds, traded loans and local market debt instruments issued by sovereign and quasi-sovereign entities.

The J.P. Morgan Domestic High Yield Index is designed to mirror the investable universe of the U.S. dollar domestic high yield corporate debt market.

The J.P. Morgan Corporate Emerging Markets Bond Index Broad Diversified (CEMBI Broad Diversified) is an expansion of the J.P. Morgan Corporate Emerging Markets Bond Index (CEMBI). The CEMBI is a market capitalization weighted index consisting of U.S. dollar denominated emerging market corporate bonds.

The **J.P. Morgan Emerging Markets Bond Index Global Diversified (EMBI Global Diversified)** tracks total returns for U.S. dollar-denominated debt instruments issued by emerging market sovereign and quasi-sovereign entities: Brady bonds, loans, Eurobonds. The index limits the exposure of some of the larger countries.

The J.P. Morgan GBI EM Global Diversified tracks the performance of local currency debt issued by emerging market governments, whose debt is accessible by most of the international investor base.

Other asset classes: The Alerian MLP Index is a composite of the 50 most prominent energy Master Limited Partnerships (MLPs) that provides investors with an unbiased, comprehensive benchmark for the asset class. The Bloomberg Commodity Index and related sub-indices are composed of futures contracts on physical commodities and represents twenty two separate commodities traded on U.S. exchanges, with the exception of aluminum, nickel, and zinc. The Cambridge Associates U.S. Global Buyout and Growth Index® is based on data compiled from 1,768 global (U.S. & ex – U.S.) buyout and growth equity funds, including fully liquidated partnerships, formed between 1986 and 2013. The CS/Tremont Hedge Fund Index is compiled by Credit Suisse Tremont Index, LLC. It is an asset-weighted hedge fund index and includes only funds, as opposed to separate accounts. The Index uses the Credit Suisse/Tremont database, which tracks over 4500 funds, and consists only of funds with a minimum of US\$50 million under management, a 12-month track record, and audited financial statements. It is calculated and rebalanced on a monthly basis, and shown net of all performance fees and expenses. It is the exclusive property of Credit Suisse Tremont Index, LLC. The HFRI Monthly Indices (HFRI) are equally weighted performance indexes, utilized by numerous hedge fund managers as a benchmark for their own hedge funds. The HFRI are broken down into 4 main strategies, each with multiple sub strategies. All single-manager HFRI Index constituents are included in the HFRI Fund Weighted Composite, which accounts for over 2200 funds listed on the internal HFR Database. The NAREIT EQUITY REIT Index is designed to provide the most comprehensive of overall industry performance and includes all tax-qualified real estate investment trusts (REITs) that are listed on the NYSE, the American Stock Exchange or the NASDAQ National Market List. The NFI-ODCE, short for NCREIF Fund Index - Open End Diversified Core Equity, is an index of investment returns reporting on both

The **U.S. Treasury Index** is a component of the U.S. Government index.

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