MPS LORIA FINANCIAL PLANNERS, LLC
A Registered Investment Advisory Firm

Monthly Market Recap

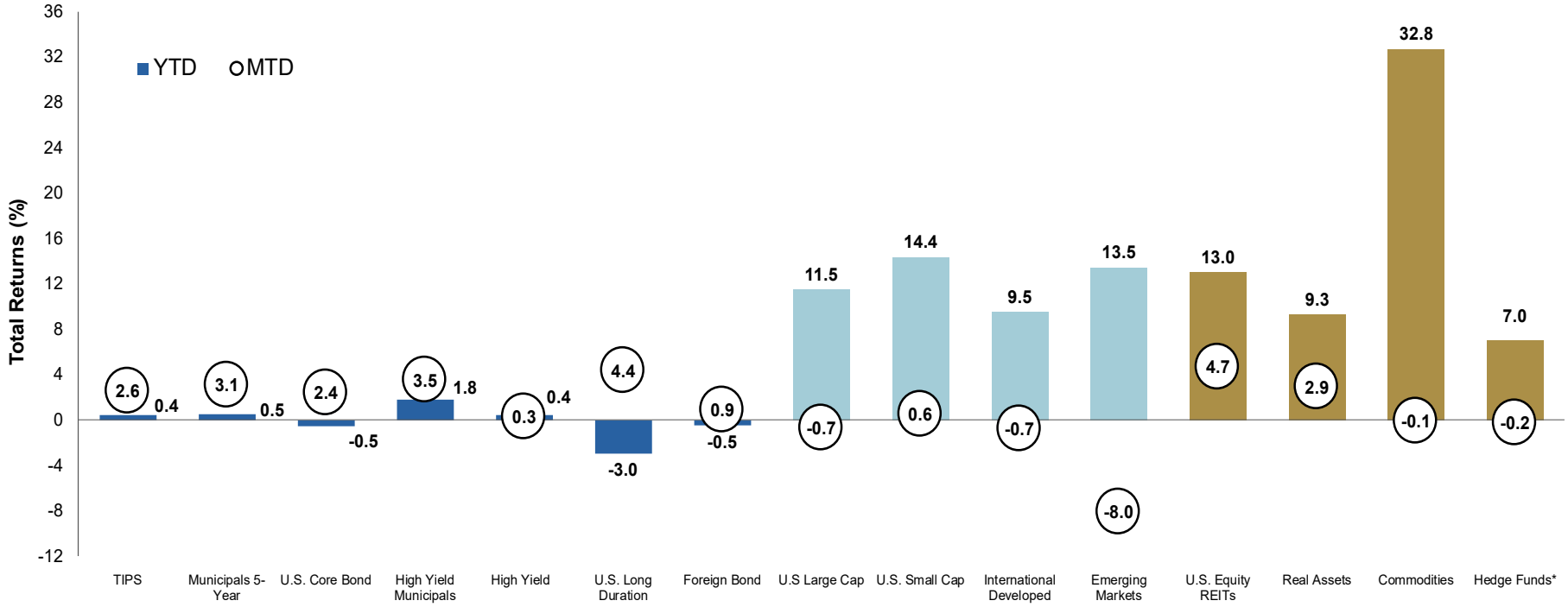
October 2026

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This document, including important disclosures at the end, is meant to be read in its entirety.

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Asset Class Returns



Source: Morningstar Direct. As of October 31, 2026. *Hedge fund returns are as of September 30, 2026.

Fixed Income

+ October marked a partial reversal of September's market dynamics. Treasury yields declined amid softer labor market data, supporting core fixed income. The Fed held its target rate unchanged at the October meeting.

+ Spreads moved wider in October amid the risk-off market. Corporate high yield edged out a modest positive return during the month.

+ Longer-duration securities benefited most, consistent with their greater sensitivity to changes in interest rates.

Equity

+/- U.S. equity markets finished with mixed results in October. Leadership favored U.S. small cap, value and more defensively oriented areas of the market, while AI related capital expenditures continued to draw scrutiny and pushed large cap into negative territory for the month.

- Markets were weaker abroad as well. Developed international held up better than its emerging markets counterpart. Strength in Europe helped offset weakness in Japan. The tech selloff was not limited to the U.S. and negatively impacted emerging markets, particularly in South Korea.

Real Asset / Alternatives

+ Real estate benefited from the decline in Treasury yields and the broader shift toward rate-sensitive and value-oriented assets. REITs were a standout in October.

+ Real assets benefited from declining interest rates, elevated energy prices and inflation sensitive components.

+/- Commodities were flat during October as strength in energy markets was offset by weakness in areas such as precious and industrial metals.

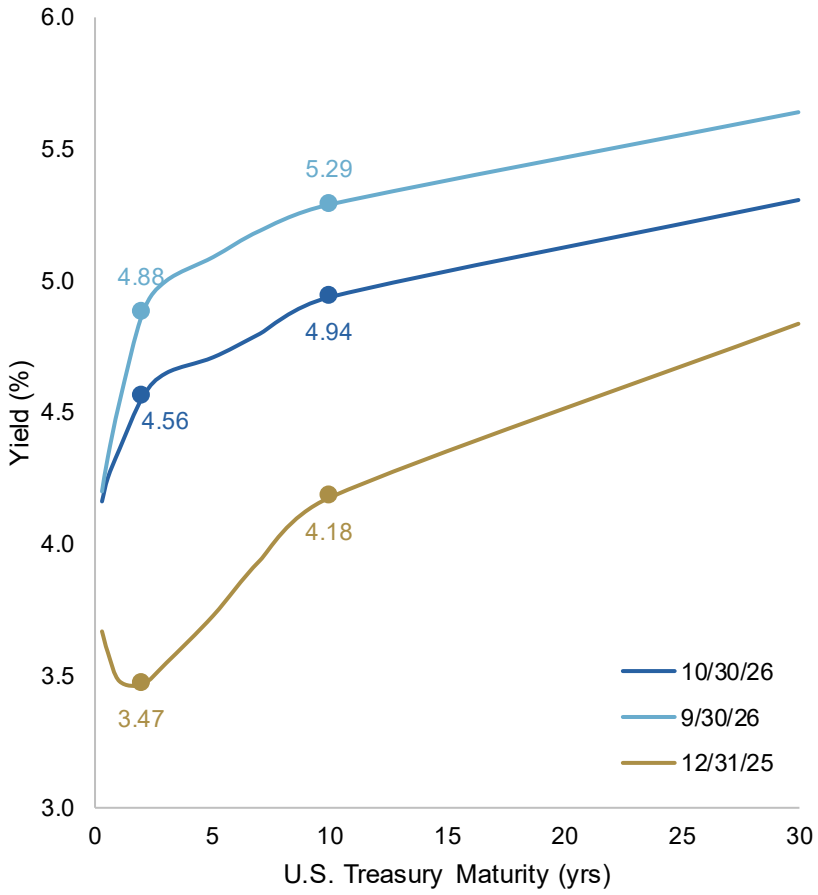
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Fixed Income Market Update

U.S. Treasury Yield Curve

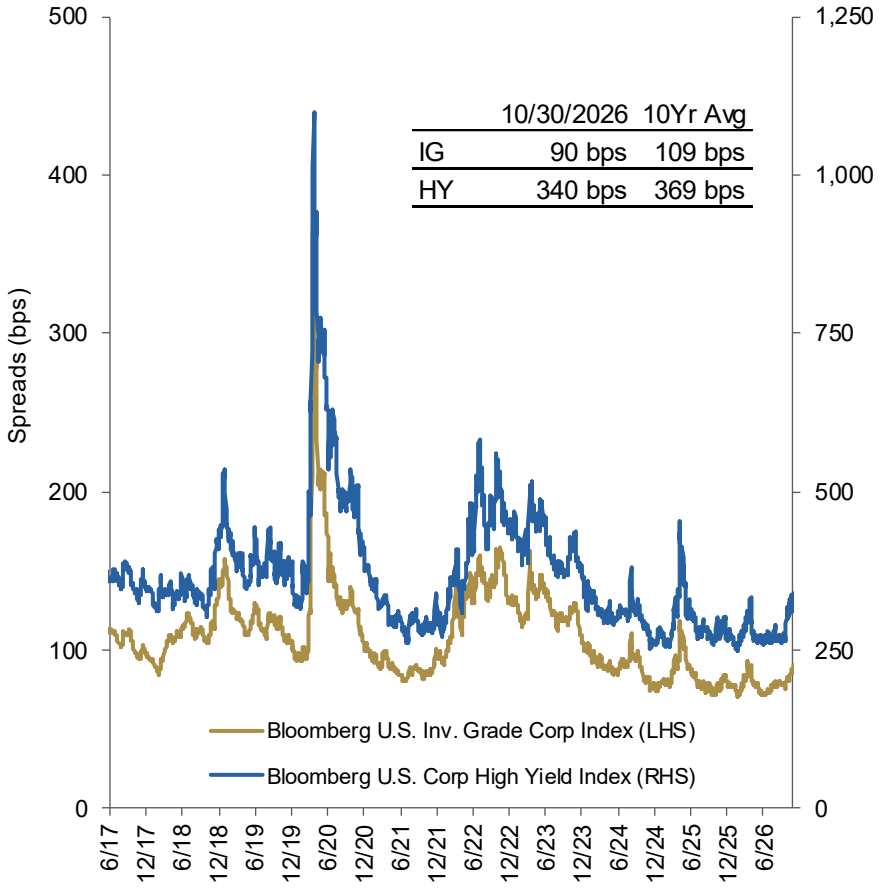
Treasury yields declined in October as softer labor data reduced expectations for another Federal Reserve rate increase. The U.S. economy added 29,000 jobs in September, below expectations, while the unemployment rate edged up to 4.2%. Ultimately the Fed held rates steady at its October meeting.



Source: FactSet. As of October 31, 2026.

Corporate Credit Spreads

Risk-off sentiment pushed corporate credit spreads higher for both the investment grade and high yield markets and offset some of the benefit from lower interest rates. Spreads are now approaching their 10-year averages, much of which has been driven by a notable widening in lower quality, CCC rated, debt.



Source: FactSet. As of October 31, 2026.

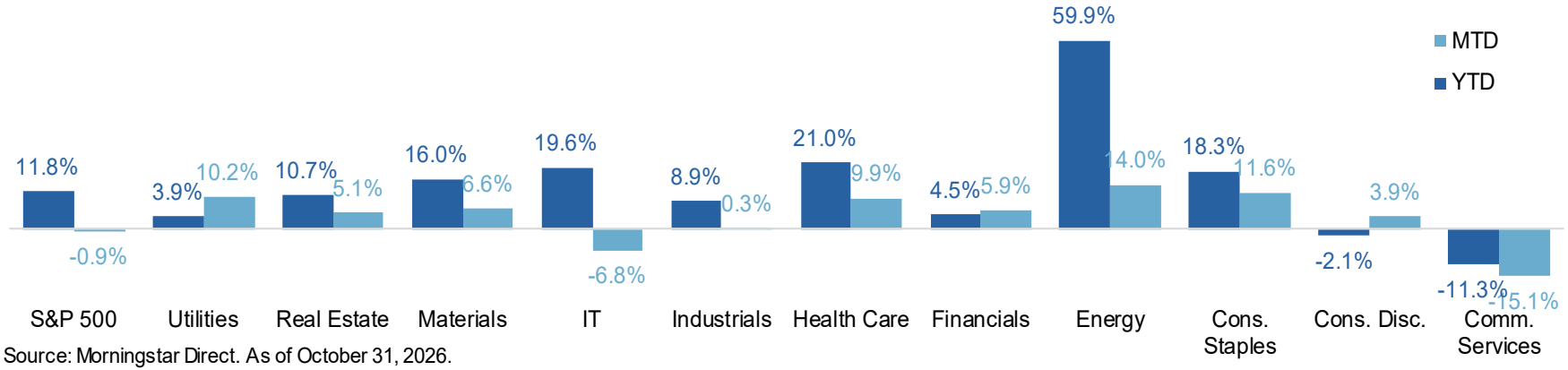
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Equity Market Update

U.S. Equities – Returns by Sector

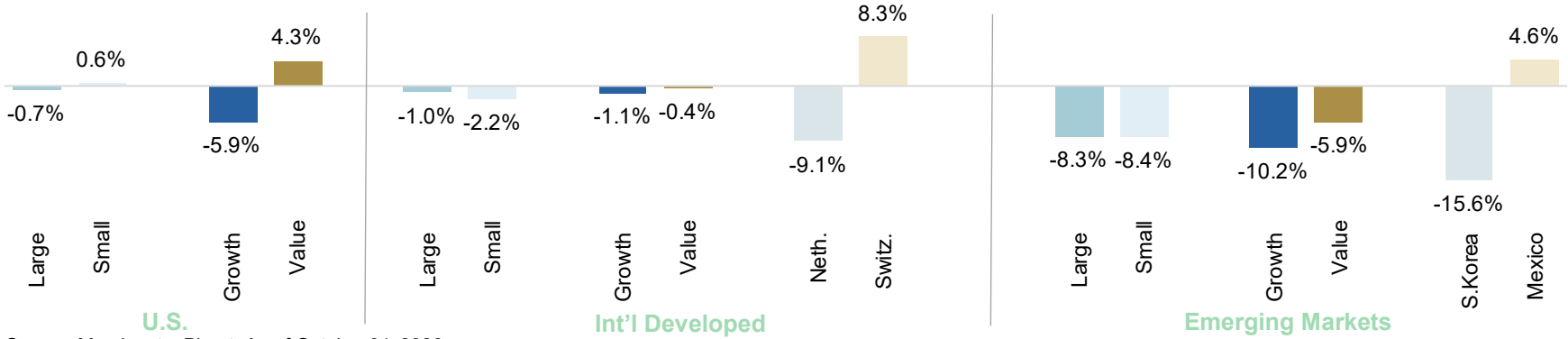
The S&P 500 declined 0.9% in October, but the headline return understated the breadth of the market rotation. The equal-weighted S&P 500 gained 5.0%, while energy, consumer staples, utilities, and health care made strong advances. Information technology and communication services declined as investors scrutinized artificial intelligence capital spending, valuations, and the prospective return on that investment.



Source: Morningstar Direct. As of October 31, 2026.

Market Capitalization, Style, and Select Country Performance

Small caps outperformed large caps and value outpaced growth by a wide margin in the U.S. Lower interest rates and a rotation away from the largest growth-oriented companies supported broader market participation. Value also outperformed growth abroad, but to a lesser extent. Emerging markets lagged, driven by sharp declines in China, South Korea, Brazil, and technology-heavy Asian markets. India and Mexico were notable relative bright spots.



Source: Morningstar Direct. As of October 31, 2026.

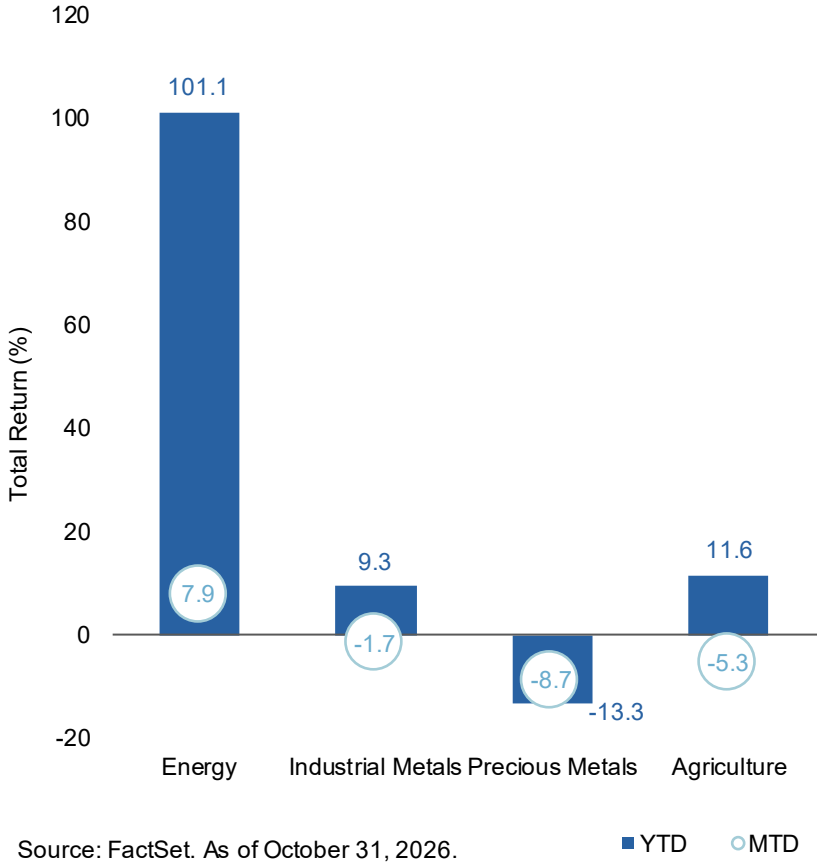
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Real Assets Market Update

Commodity Performance

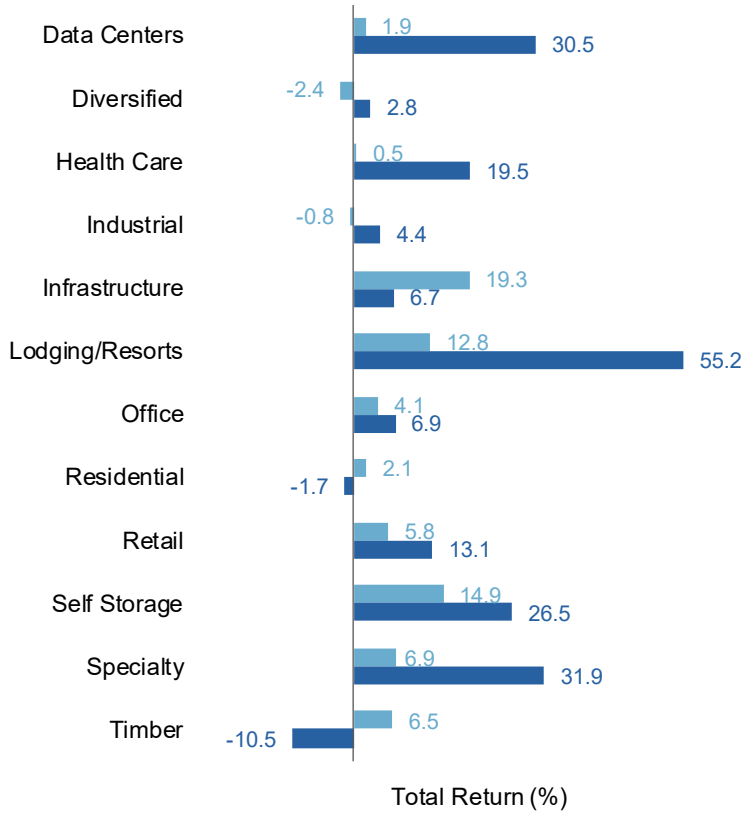
Commodities were essentially flat in October, but the headline result masked dispersion within the underlying components. Energy gained almost 8%, supported by elevated oil prices and continued uncertainty surrounding Iran and Middle East supply routes. These gains were offset by declines in precious metals, agriculture, and industrial metals.



Source: FactSet. As of October 31, 2026.

REIT Sector Performance

Equity REITs gained ~5% as falling Treasury yields eased a key headwind from earlier in the year. Infrastructure and self-storage were among the strongest segments, while lodging and resorts, also advanced as the U.S. consumer remains resilient.



Source: FactSet. As of October 31, 2026.

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Financial Markets Performance

Financial Markets Performance

Total Return as of October 31, 2026

Periods greater than one year are annualized

All returns are in U.S. dollar terms

Global Fixed Income Markets	MTD	YTD	1YR	3YR	5YR	7YR	10YR	15YR
Bloomberg 1-3-Month T-Bill	0.4%	3.1%	3.8%	4.6%	3.9%	2.9%	2.5%	1.7%
Bloomberg U.S. TIPS	2.6%	0.4%	0.2%	4.9%	0.3%	2.5%	2.5%	2.1%
Bloomberg Municipal Bond (5 Year)	3.1%	0.5%	1.0%	4.0%	1.2%	1.5%	1.8%	2.1%
Bloomberg High Yield Municipal Bond	3.5%	1.8%	1.9%	7.2%	1.3%	2.6%	3.7%	4.9%
Bloomberg U.S. Aggregate	2.4%	-0.5%	-0.1%	5.5%	-0.2%	0.7%	1.5%	1.9%
Bloomberg U.S. Corporate High Yield	0.3%	0.4%	1.6%	8.6%	3.7%	4.6%	5.0%	5.7%
Bloomberg Global Aggregate ex-U.S. Hedged	1.2%	1.0%	0.6%	4.7%	1.4%	1.2%	2.1%	3.0%
Bloomberg Global Aggregate ex-U.S. Unhedged	0.6%	-1.9%	-1.4%	4.1%	-2.7%	-1.5%	-0.4%	-0.5%
Bloomberg U.S. Long Gov / Credit	4.4%	-3.0%	-3.9%	5.5%	-4.9%	-2.0%	0.5%	2.2%
Global Equity Markets	**MTD**	**YTD**	**1YR**	**3YR**	**5YR**	**7YR**	**10YR**	**15YR**
S&P 500	-0.9%	11.8%	12.1%	23.4%	12.1%	15.7%	15.4%	14.8%
Dow Jones Industrial Average	1.8%	9.1%	10.6%	18.2%	9.7%	11.9%	13.4%	12.8%
NASDAQ Composite	-5.3%	10.0%	7.9%	26.4%	11.2%	18.3%	18.2%	17.3%
Russell 3000	-0.6%	11.7%	12.0%	23.1%	11.0%	15.1%	14.9%	14.4%
Russell 1000	-0.7%	11.5%	11.8%	23.2%	11.4%	15.4%	15.2%	14.6%
Russell 1000 Growth	-6.1%	-0.2%	-2.6%	22.3%	10.4%	17.2%	17.7%	16.3%
Russell 1000 Value	4.4%	24.5%	28.7%	23.3%	11.8%	12.8%	12.1%	12.5%
Russell Mid Cap	3.2%	15.4%	16.6%	20.5%	7.5%	11.7%	11.9%	12.3%
Russell Mid Cap Growth	-4.4%	-3.4%	-6.7%	15.6%	2.6%	9.8%	11.8%	11.9%
Russell Mid Cap Value	5.8%	22.0%	25.0%	21.8%	9.4%	11.7%	10.8%	11.9%
Russell 2000	0.6%	14.4%	14.8%	20.8%	5.6%	10.2%	10.4%	10.8%
Russell 2000 Growth	-1.3%	9.3%	7.1%	20.2%	3.5%	9.3%	10.5%	10.8%
Russell 2000 Value	2.5%	19.9%	23.5%	21.4%	7.5%	10.7%	10.0%	10.6%
MSCI ACWI	-1.6%	11.2%	12.3%	22.3%	10.1%	12.8%	12.4%	10.9%
MSCI ACWI ex. U.S.	-2.8%	11.0%	14.3%	21.1%	8.4%	9.5%	9.1%	7.2%
MSCI EAFE	-0.7%	9.5%	13.5%	19.7%	8.6%	9.5%	9.2%	7.8%
MSCI EAFE Growth	-1.1%	5.2%	5.5%	14.9%	3.4%	7.1%	8.2%	7.3%
MSCI EAFE Value	-0.4%	13.9%	21.9%	24.7%	13.9%	11.6%	10.0%	8.0%
MSCI EAFE Small Cap	-2.2%	8.4%	12.2%	19.7%	5.0%	7.9%	8.1%	8.4%
MSCI Emerging Markets	-8.0%	13.5%	14.1%	22.3%	6.9%	8.5%	8.2%	5.6%
Alternatives	**MTD**	**YTD**	**1YR**	**3YR**	**5YR**	**7YR**	**10YR**	**15YR**
FTSE NAREIT All Equity REITs	4.7%	13.0%	13.1%	13.9%	1.9%	4.3%	6.4%	8.1%
S&P Real Assets	2.9%	9.3%	11.5%	12.6%	4.8%	5.8%	6.0%	5.3%
FTSE EPRA NAREIT Developed	2.4%	6.3%	7.3%	13.3%	0.9%	2.2%	4.4%	6.0%
FTSE EPRA NAREIT Developed ex U.S.	0.8%	-6.3%	-3.7%	9.7%	-2.6%	-1.2%	2.0%	3.6%
Bloomberg Commodity Total Return	-0.1%	32.8%	36.6%	15.5%	10.7%	11.8%	7.9%	1.3%
HFRI Fund of Funds Composite*	-0.2%	7.0%	10.4%	10.0%	5.4%	6.7%	5.6%	4.8%
HFRI Asset Weighted Composite*	0.6%	7.5%	10.2%	8.8%	6.3%	6.0%	5.5%	5.1%
Alerian MLP	4.5%	26.2%	31.9%	21.7%	22.3%	16.5%	10.3%	7.4%

*Sources: Morningstar, FactSet. As of October 31, 2026. *HFRI indexes as of September 30, 2026.*

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Material Risks & Limitations

Fixed Income securities are subject to interest rate risks, the risk of default and liquidity risk. U.S. investors exposed to non-U.S. fixed income may also be subject to currency risk and fluctuations.

Cash may be subject to the loss of principal and over longer period of time may lose purchasing power due to inflation.

Domestic Equity can be volatile. The rise or fall in prices take place for a number of reasons including, but not limited to changes to underlying company conditions, sector or industry factors, or other macro events. These may happen quickly and unpredictably.

International Equity can be volatile. The rise or fall in prices take place for a number of reasons including, but not limited to changes to underlying company conditions, sector or industry impacts, or other macro events. These may happen quickly and unpredictably. International equity allocations may also be impacted by currency and/or country specific risks which may result in lower liquidity in some markets.

Real Assets can be volatile and may include asset segments that may have greater volatility than investment in traditional equity securities. Such volatility could be influenced by a myriad of factors including, but not limited to overall market volatility, changes in interest rates, political and regulatory developments, or other exogenous events like weather or natural disaster.

Private Equity involves higher risk and is suitable only for sophisticated investors. Along with traditional equity market risks, private equity investments are also subject to higher fees, lower liquidity and the potential for leverage that may amplify volatility and/or the potential loss of capital.

Private Credit involves higher risk and is suitable only for sophisticated investors. These assets are subject to interest rate risks, the risk of default and limited liquidity. U.S. investors exposed to non-U.S. private credit may also be subject to currency risk and fluctuations.

Private Real Estate involves higher risk and is suitable only for sophisticated investors. Real estate assets can be volatile and may include unique risks to the asset class like leverage and/or industry, sector or geographical concentration. Declines in real estate value may take place for a number of reasons including, but are not limited to economic conditions, change in condition of the underlying property or defaults by the borrower.

Marketable Alternatives involves higher risk and is suitable only for sophisticated investors. Along with traditional market risks, marketable alternatives are also subject to higher fees, lower liquidity and the potential for leverage that may amplify volatility or the potential for loss of capital. Additionally, short selling involved certain risks including, but not limited to additional costs, and the potential for unlimited loss on certain short sale positions.

All investing involves risk including the potential loss of principal. Market volatility may significantly impact the value of your investments. Recent tariff announcements may add to this volatility, creating additional economic uncertainty and potentially affecting the value of certain investments. Tariffs can impact various sectors differently, leading to changes in market dynamics and investment performance. You should consider these factors when making investment decisions. We recommend consulting with a qualified financial adviser to understand how these risks may affect your portfolio and to develop a strategy that aligns with your financial goals and risk tolerance.

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The returns from the types of securities in which an **ETF and mutual fund** invests may underperform returns from the various general securities markets or different asset classes. The securities in the underlying indexes may underperform fixed-income investments and stock market investments that track other markets, segments and sectors. Different types of securities tend to go through cycles of out-performance and underperformance in comparison to the general securities markets.

Value of investments in client portfolios can be impacted by changes in the level of **interest rates**, the spread between rates, the shape of the yield curve and other rate related movements. These changes can be unpredictable and can cause losses.

Investment strategies focusing on **large-cap companies** may underperform other equity investment strategies as large cap companies may not experience sustained periods of growth in the mature product markets in which they operate.

Investment strategies focusing on **small- and mid-cap stocks** involve more risk than strategies focused on larger more established companies because small- and mid-cap companies may have smaller revenue, narrower product lines, less management depth, small market share, fewer financial resources and less competitive strength.

Some investments are subject to **limited liquidity**. This means clients are not able to buy or sell securities quickly enough to prevent or minimize a loss. In addition, clients can be subject to high costs or losses due to wide bid-ask spreads or large price movements. In times of crisis, liquidity risk can even affect investments generally deemed “safe,” including money market funds and similar investments.

Portfolio, volatility or return targets or objectives, if any, are used solely for illustration, measurement or comparison purposes and as an aid or guideline for prospective investors to evaluate a particular strategy. Volatility and performance will fluctuate, including over short periods, and should be evaluated over the time period indicated and not over shorter periods. Actual volatility and returns will depend on a variety of factors including overall market conditions and the ability to implement the appropriate investment process, investment objectives and risk management.

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Disclosures – Index & Benchmark Definitions

Fixed Income

- **Bloomberg 1-3 Month U.S. Treasury Bill Index** is designed to measure the performance of public obligations of the U.S. Treasury that have a remaining maturity of greater than or equal to 1 month and less than 3 months.
- **Bloomberg U.S. Aggregate Index** covers the U.S. investment grade fixed rate bond market, with index components for government and corporate securities, mortgage pass-through securities, and asset-backed securities.
- **Bloomberg Global Aggregate ex. USD Indices** represent a broad-based measure of the global investment-grade fixed income markets. The two major components of this index are the Pan-European Aggregate and the Asian-Pacific Aggregate Indices. The index also includes Eurodollar and Euro-Yen corporate bonds and Canadian government, agency and corporate securities.
- **Bloomberg U.S. Corporate 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.
- **Bloomberg US Government/Credit 1-3 Year Index** is the 1-3 year component of the U.S. Government/Credit Index, which includes securities in the Government and Credit Indices. The Government Index includes treasuries and agencies, while the credit index includes publicly issued U.S. corporate and foreign debentures and secured notes that meet specified maturity, liquidity, and quality requirements.
- **Bloomberg US Government/Credit Long Index** is the Long component of the U.S. Government/Credit Index, which includes securities in the Government and Credit Indices. The Government Index includes treasuries and agencies, while the credit index includes publicly issued U.S. corporate and foreign debentures and secured notes that meet specified maturity, liquidity and quality requirements.
- **Bloomberg US Treasury Inflation Protected Securities Index** consists of Inflation-Protection securities issued by the U.S. Treasury.
- **Bloomberg Muni Index** is a rules-based, market-value-weighted index engineered for the long-term tax-exempt bond market. Bonds must be rated investment-grade by at least two ratings agencies.
- **Bloomberg High Yield Municipal Bond Index** covers the universe of fixed rate, non-investment grade debt.
- **Bloomberg Intermediate U.S. Gov't/Credit** is the Intermediate component of the U.S. Government/Credit index, which includes securities in the Government and Credit Indices. The Government Index includes treasuries and agencies, while the credit index includes publicly issued U.S. corporate and foreign debentures and secured notes that meet specified maturity, liquidity, and quality requirements.
- **JPMorgan GBI-EM Global Diversified t**racks the performance of local currency debt issued by emerging market governments, whose debt is accessible by most of the international investor base.

Equity

- **The S&P 500 Index** is a capitalization-weighted index designed to measure performance of the broad domestic economy through changes in the aggregate market value of 500 stocks representing all major industries.
- **Russell 3000 Index** is a market-cap-weighted index which consists of roughly 3,000 of the largest companies in the U.S. as determined by market capitalization. It represents nearly 98% of the investable U.S. equity market.
- **Russell 1000 Index** consists of the largest 1000 companies in the Russell 3000 Index.
- **Russell 1000 Growth Index** measures the performance of those Russell 1000 companies with higher P/B ratios and higher forecasted growth values.
- **Russell 1000 Value Index** measures the performance of those Russell 1000 companies with lower P/B ratios and lower forecasted growth values.
- **Russell Mid Cap Index** measures the performance of the 800 smallest companies in the Russell 1000 Index.
- **Russell Mid Cap Growth Index** measures the performance of those Russell Mid Cap companies with higher P/B ratios and higher forecasted growth values.
- **Russell Mid Cap Value Index** measures the performance of those Russell Mid Cap companies with lower P/B ratios and lower forecasted growth values.
- **Russell 2000** consists of the 2,000 smallest U.S. companies in the Russell 3000 index.
- **Russell 2000 Growth Index** measures the performance of the Russell 2000 companies with higher P/B ratios and higher forecasted growth values.
- **Russell 2000 Value Index** measures the performance of those Russell 2000 companies with lower P/B ratios and lower forecasted growth values.
- **MSCI USA Barra Earnings Yield Index** is a long/short (130/30) index that targets high exposure to the earnings yield factor, low exposure to other style and industry factors, and low tracking error relative to the MSCI USA Index, its parent index. The earnings yield factor combines current and historical earnings-to-price ratios with a measure of analyst-predicted earnings-to price ratios.
- **MSCI USA Barra Low Leverage Index** The index is derived from the parent index, MSCI Investable Market, and seeks to target exposure to low leverage companies as defined by the Barra Equity Model. The index is rebalanced monthly subject to tracking error and turnover constraints.
- **MSCI USA Barra Low Volatility Index** aims to reflect the performance characteristics of a minimum variance strategy applied to the large and mid cap USA equity universe. The index is calculated by optimizing the MSCI USA Index, its parent index, in USD for the lowest absolute risk (within a given set of constraints). Historically, the index has shown lower beta and volatility characteristics relative to the MSCI USA Index.
- **MSCI USA Barra Momentum Index** is derived from the parent index, MSCI Investable Market, and seeks to target exposure to companies with positive price momentum as defined by the Barra Equity Model. The index is rebalanced monthly subject to tracking error and turnover constraints.

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- **MSCI USA Barra Value Index** is derived from the parent index, MSCI Investable Market, and seeks to target exposure to companies with value characteristics as defined by the Barra Equity Model. The index is rebalanced monthly subject to tracking error and turnover constraints.
- **MSCI ACWI (All Country World Index)** captures large and mid cap representation across Developed Markets (DM) and Emerging Markets (EM) countries. The index covers approximately 85% of the global investable equity opportunity set.
- **MSCI ACWI (All Country World Index) ex. U.S. Index** captures large and mid-cap representation across Developed Markets countries (excluding the United States) and Emerging Markets countries. The index covers approximately 85% of the global equity opportunity set outside the U.S.
- **MSCI EAFE Index** is an equity index which captures large and mid-cap representation across Developed Markets countries around the world, excluding the U.S. and Canada. The index covers approximately 85% of the free float-adjusted market capitalization in each country.
- **MSCI Emerging Market**s Index captures large and mid-cap representation across Emerging Markets countries. The index covers approximately 85% of the free-float adjusted market capitalization in each country.
- **MSCI EAFE Large Value Index** captures large cap securities exhibiting overall value style characteristics across Developed Markets countries around the world, excluding the US and Canada. The value investment style characteristics for index construction are defined using three variables: book value to price, 12-month forward earnings to price and dividend yield.
- **MSCI EAFE Large Cap Index** is an equity index which captures large cap representation across Developed Markets countries around the world, excluding the US and Canada. The index covers approximately 70% of the free-float adjusted market capitalization in each country.
- **MSCI EAFE Large Growth Index** captures large cap securities exhibiting overall growth style characteristics across Developed Markets countries around the world, excluding the US and Canada. The growth investment style characteristics for index construction are defined using five variables: long-term forward EPS growth rate, short-term forward EPS growth rate, current internal growth rate and long-term historical EPS growth trend and long-term historical sales per share growth trend.
- **MSCI EAFE Mid Value Index** captures mid cap securities exhibiting overall value style characteristics across Developed Markets countries around the world, excluding the US and Canada. The value investment style characteristics for index construction are defined using three variables: book value to price, 12-month forward earnings to price and dividend yield.
- **MSCI EAFE Mid Cap Index** is an equity index which captures mid cap representation across Developed Markets countries around the world, excluding the US and Canada. The index covers approximately 15% of the free-float adjusted market capitalization in each country.
- **MSCI EAFE Mid Cap Growth Index** captures mid cap securities exhibiting overall growth style characteristics across Developed Markets countries around the world, excluding the US and Canada. The growth investment style characteristics for index construction are defined using five variables: long-term forward EPS growth rate, short-term forward EPS growth rate, current internal growth rate and long-term historical EPS growth trend and long-term historical sales per share growth trend.
- **MSCI EAFE Small Cap Value Index** captures small cap securities exhibiting overall value style characteristics across Developed Markets countries around the world, excluding the US and Canada. The value investment style characteristics for index construction are defined using three variables: book value to price, 12-month forward earnings to price and dividend yield.
- **MSCI EAFE Small Cap Index** is an equity index which captures small cap representation across Developed Markets countries around the world, excluding the US and Canada. The index covers approximately 14% of the free float adjusted market in each country.
- **MSCI EAFE Small Cap Growth Index** captures small cap securities exhibiting overall growth style characteristics across Developed Markets countries around the world, excluding the US and Canada. The growth investment style characteristics for index construction are defined using five variables: long-term forward EPS growth rate, short-term forward EPS growth rate, current internal growth rate and long-term historical EPS growth trend and long-term historical sales per share growth trend.
- **MSCI ACWI (All Country World Index) ex USA Large Value Index** captures large-cap securities exhibiting overall value style characteristics across Developed Markets countries (excluding the US) and Emerging Markets (EM) countries. The value investment style characteristics for index construction are defined using three variables: book value to price, 12-month forward earnings to price and dividend yield.
- **MSCI ACWI (All Country World Index) ex USA Large Index** captures large cap representation across Developed Markets countries (excluding the US) and Emerging Markets countries. The index covers approximately 70% of the free float-adjusted market capitalization in each country.
- **MSCI ACWI (All Country World Index) ex USA Large Growth Index** captures large-cap securities exhibiting overall growth style characteristics across Developed Markets countries (excluding the US) and Emerging Markets countries. The growth investment style characteristics for index construction are defined using five variables: long-term forward EPS growth rate, short-term forward EPS growth rate, current internal growth rate and long-term historical EPS growth trend and long-term historical sales per share growth trend.
- **MSCI ACWI (All Country World Index ex USA Mid Value Index** captures mid cap securities exhibiting overall value style characteristics across Developed Markets countries (excluding the US) and Emerging Markets (EM) countries. The value investment style characteristics for index construction are defined using three variables: book value to price, 12-month forward earnings to price and dividend yield.

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Disclosures – Index & Benchmark Definitions

- **MSCI ACWI (All Country World Index) ex USA Mid Cap Index** captures mid cap representation across Developed Markets countries (excluding the US) and Emerging Markets (EM) countries. The index covers approximately 15% of the free float-adjusted market capitalization in each country.
- **MSCI ACWI (All Country World Index) ex USA Mid Growth Index** captures mid-cap securities exhibiting overall growth style characteristics across Developed Markets countries (excluding the US) and Emerging Markets countries. The growth investment style characteristics for index construction are defined using five variables: long-term forward EPS growth rate, short-term forward EPS growth rate, current internal growth rate and long-term historical EPS growth trend and long-term historical sales per share growth trend.
- **MSCI ACWI (All Country World Index) ex USA Small Value Index** captures small cap securities exhibiting overall value style characteristics across Developed Markets countries (excluding the US) and Emerging Markets (EM) countries. The value investment style characteristics for index construction are defined using three variables: book value to price, 12-month forward earnings to price and dividend yield.
- **MSCI ACWI (All Country World Index) ex. U.S. Small Cap Index** captures small cap representation across Developed Markets countries (excluding the US) and Emerging Markets countries. The index covers approximately 14% of the global equity opportunity set outside the U.S.
- **MSCI ACWI (All Country World Index) ex U.S. Small Growth Index** captures mid-cap securities exhibiting overall growth style characteristics across Developed Markets countries (excluding the US) and Emerging Markets countries. The growth investment style characteristics for index construction are defined using five variables: long-term forward EPS growth rate, short-term forward EPS growth rate, current internal growth rate and long-term historical EPS growth trend and long-term historical sales per share growth trend.
- **MSCI Emerging Markets (EM) Large Value Index** captures large-cap securities exhibiting overall value style characteristics across Emerging Markets (EM) countries. The value investment style characteristics for index construction are defined using three variables: book value to price, 12-month forward earnings to price and dividend yield.
- **MSCI Emerging Markets (EM) Large Index** includes large-cap representation across Emerging Markets countries. The index covers approximately 70% of the free float-adjusted market capitalization in each country.
- **MSCI Emerging Markets (EM) Large Growth Index** captures large-cap securities exhibiting overall growth style characteristics across Emerging Markets (EM) countries. The growth investment style characteristics for index construction are defined using five variables: long-term forward EPS growth rate, short-term forward EPS growth rate, current internal growth rate and long-term historical EPS growth trend and long-term historical sales per share growth trend.
- **MSCI Emerging Markets (EM) Mid Value Index** captures mid cap securities exhibiting overall value style characteristics across Emerging Markets (EM) countries. The value investment style characteristics for index construction are defined using three variables: book value to price, 12-month forward earnings to price and dividend yield.
- **MSCI Emerging Markets (EM) Mid Index** includes mid-cap representation across Emerging Markets countries. The index covers approximately 15% of the free float-adjusted market capitalization in each country.
- **MSCI Emerging Markets (EM) Mid Growth Index** captures mid cap securities exhibiting overall growth style characteristics across Emerging Markets (EM) countries. The growth investment style characteristics for index construction are defined using five variables: long-term forward EPS growth rate, short-term forward EPS growth rate, current internal growth rate and long-term historical EPS growth trend and long-term historical sales per share growth trend.
- **MSCI Emerging Markets (EM) Small Value Index** captures small cap securities exhibiting overall value style characteristics across Emerging Markets (EM) countries. The value investment style characteristics for index construction are defined using three variables: book value to price, 12-month forward earnings to price and dividend yield.
- **MSCI Emerging Markets (EM) Small Cap Index** includes small cap representation across Emerging Markets countries. The index covers approximately 14% of the free float-adjusted market capitalization in each country. The small cap segment tends to capture more local economic and sector characteristics relative to larger Emerging Markets capitalization segments.
- **MSCI Emerging Markets (EM) Small Growth Index** captures small cap securities exhibiting overall growth style characteristics across Emerging Markets (EM) countries. The growth investment style characteristics for index construction are defined using five variables: long-term forward EPS growth rate, short-term forward EPS growth rate, current internal growth rate and long-term historical EPS growth trend and long-term historical sales per share growth trend.

Alternatives & Miscellaneous/Other

- **S&P Real Asset Index** is designed to measure global property, infrastructure, commodities, and inflation-linked bonds using liquid and investable component indices that track public equities, fixed income, and futures. In the index, equity holds 50% weight, commodities 10%, and fixed income 40%.
- **S&P Global Natural Resources Index** includes 90 of the largest publicly-traded companies in natural resources and commodities businesses that meet specific investability requirements, offering investors diversified and investable equity exposure across 3 primary commodity-related sectors: agribusiness, energy, and metals & mining.
- **Dow Jones Brookfield Global Infrastructure Index** is designed to measure the performance of pure-play infrastructure companies domiciled globally. The index covers all sectors of the infrastructure market. To be included in the index, a company must derive at least 70% of cash flows from infrastructure lines of business.

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Disclosures – Index & Benchmark Definitions

- **FTSE Nareit All Equity REITs Index** is a free-float adjusted, market capitalization-weighted index of U.S. equity REITs. Constituents of the index include all tax-qualified REITs with more than 50 percent of total assets in qualifying real estate assets other than mortgages secured by real property.
- **FTSE EPRA Nareit Developed Index** is designed to track the performance of listed real estate companies and REITS worldwide.
- **FTSE EPRA Nareit Developed ex US Index** is a subset of the FTSE EPRA Nareit Developed Index and is designed to track the performance of listed real estate companies and REITS in developed markets excluding the US.
- **Bloomberg Commodity Index** is calculated on an excess return basis and reflects commodity futures price movements. The index rebalances annually weighted 2/3 by trading volume and 1/3 by world production and weight-caps are applied at the commodity, sector and group level for diversification.
- **HFRI Fund Weighted Composite Index** is a global, equal-weighted index of over 2,000 single-manager funds that report to the HFR Database. Constituent funds report monthly net of all fees performance in U.S. Dollars and have a minimum of $50 million under management or a twelve (12) month track record of active performance. The HFRI Fund Weighted Composite Index does not include Funds of Hedge Funds.
- **HFRI Fund of Funds Composite Index** is a global, equal-weighted index of all fund of hedge funds that report to the HFR Database. Constituent funds report monthly net of all fees performance in U.S. Dollars and have a minimum of $50 million under management or a twelve (12) month track record of active performance.
- **The Alerian MLP Index** is a float adjusted, capitalization-weighted index, whose constituents represent approximately 85% of total float-adjusted market capitalization, is disseminated real-time on a price-return basis (AMZ) and on a total-return basis.
- **Citigroup 3 Month T-Bill** measures monthly return equivalents of yield averages that are not marked to market. The Three-Month Treasury Bill Indexes consist of the last three three-month Treasury bill issues.
- **Citigroup Corporate Bond** is an index which serves as a benchmark for corporate bond performance. You cannot invest directly in an index.
- **Citigroup Mortgage Master** is an index which serves as a benchmark for U.S. mortgage-backed securities performance.
- **Citigroup WGBI Index** is an index which serves as a benchmark for global bond performance, including 22 different government bond markets.
- **Credit Suisse High Yield Index** is an unmanaged, trader priced index constructed to mirror the characteristics of the high yield bond market.
- **BC (Barclays Capital) U.S. Aggregate Bond Index** represents securities that are U.S., domestic, taxable, and dollar dominated. The index covers the U.S. investment grade fixed rate bond market, with index components for government and corporate securities, mortgage pass-through securities, and asset-backed securities. These major sectors are subdivided into more specific indices that are calculated and reported on a regular basis.
- **BC Credit Bond Index** includes publicly issued U.S. corporate and specified foreign debentures and secured notes that meet the specified maturity, liquidity, and quality requirements. To qualify, bonds must be SEC-registered.
- **BC U.S. Corporate Investment** Grade represents investment grade corporate securities that are U.S., domestic, taxable, and dollar denominated
- **BC High Yield Corporate Bond** represents below investment grade corporate securities that are U.D., domestic, taxable, and dollar denominated.
- **BC TIPS Index** includes publicly issued U.S. government treasury inflation protected securities that meet the specified maturity, liquidity and other requirements.
- **BC Mortgage-Backed Securities** covers agency mortgage-backed pass-through securities (both fixed-rate and hybrid ARMs) issued by Ginnie Mae (GNMA), Fannie Mae (FNMA), and Freddie Mac (FHLMC).
- **BC Muni Bond** covers the USD-denominated long-term tax-exempt bond market with four main sectors: state and local general obligation bonds, revenue bonds, insured bonds, and pre-refunded bonds.
- **BC Government Index** includes publicly issued U.S. government securities that meet the specified maturity, liquidity and other requirements.
- **BC Government Index** includes publicly issued U.S. government securities that meet the specified maturity, liquidity and other requirements.
- **BarCap U.S. Aggregate 1-3 Yr. TR USD Index** represents securities in the BC U.S.
- Aggregate Index that have maturity dates over the next 1-3 years.
- **BarCap U.S. Aggregate 3-5 Yr. TR USD Index** represents securities in the BC U.S. Aggregate Index that have maturity dates over the next 3-5 years.
- **BarCap U.S. Aggregate 5-7 Yr. TR USD Index** represents securities in the BC U.S. Aggregate Index that have maturity dates over the next 5-7 years.
- **BarCap U.S. Aggregate 7-10 Yr. TR USD Index** represents securities in the BC U.S. Aggregate Index that have maturity dates over the next 7-10 years.
- **BarCap U.S. Aggregate 10+ Yr. TR USD Index** represents securities in the BC U.S. Aggregate Index that have maturity dates over 10 years.
- **Ryan 3 Yr. GIC** is an arithmetic mean of market rates of $1 million Guaranteed Interest Contracts held for three years.
- **Russell Top 200 Growth Index** is a market-capitalization weighted index of those firms in the Russell Top 200 with higher price-to-book ratios and higher forecasted growth values.
- **Russell Top 200 Value Index** is a market-capitalization weighted index of those firms in the Russell Top 200 with lower price-to-book ratios and lower forecasted
- **Russell 2500** consists of the 2,500 smallest U.S. companies in the Russell 3000 index.
- **Russell 2500 Growth** measures the performance of the Russell 2500 companies with higher P/B ratios and higher forecasted growth values.
- **Russell 2500 Value** measures the performance of those Russell 2500 companies with lower P/B ratios and lower forecasted growth values.
- **MSCI World** captures large and mid-cap representation across 23 Developed Markets countries. With 1,645 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in each country.
- **MSCI Europe ex UK Index** is a rules-based index that serves as a benchmark for Europe's equity markets, excluding the United Kingdom.

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Disclosures – Index & Benchmark Definitions

- **MSCI Pacific ex Japan Index** is a rules-based index that serves as a benchmark for Asia Pacific's equity markets, excluding Japan.
- **MSCI United Kingdom Index** is a rules-based index that serves as a benchmark for the United Kingdom's equity markets.
- **MSCI Japan** is a rules-based index that serves as a benchmark for Japan's equity markets.
- **MSCI FI Emerging Markets** is a rules-based index which serves as a benchmark for emerging country fixed income performance.
- **MSCI FI EAFE International** is a rules-based index which serves as a benchmark for developed international country fixed income performance.
- **FTSE NAREIT Equity REITs Index** contains all Equity REITs not designed as Timber REITs or Infrastructure REITs.
- **NAREIT All REIT Index** includes all tax-qualified REITs with common shares that trade on the New York Stock Exchange the American Stock Exchange or the NASDAQ National Market List.
- **Salomon 1-10 Yr. Governments** is an index which serves as a benchmark for U.S. Government bonds with maturities ranging from 1 to 10 years.
- **S&P 500 Index** measures the performance of the largest 500 U.S. common equity securities, and serves as an index of large cap stocks traded in the U.S.
- **S&P 1500 Energy Index** measures the performance of the energy sector in the S&P 1500 Index.
- **S&P Global REIT** serves as a comprehensive benchmark of publicly traded equity REITs listed in both developed and emerging markets.
- **S&P 1500 Industrials** measures the performance of the industrial sector in the S&P 1500 Index.
- **S&P 1500 Financials** measures the performance of the financials sector in the S&P 1500 Index.
- **S&P 1500 Utilities** measures the performance of the utilities sector in the S&P 1500 Index.
- **S&P 1500 Consumer Discretionary** Index measures the performance of the consumer discretionary sector in the S&P 1500 Index.
- **S&P 1500 Consumer Staples Index** measures the performance of the consumer staples sector in the S&P 1500 Index.
- **S&P 1500 Information Technology** measures the performance of the information technology sector in the S&P 1500 Index.
- **S&P 1500 Materials** measures the performance of the materials sector in the S&P 1500 Index.
- **S&P 1500 Health Care** measures the performance of the health care sector in the S&P 1500 Index.
- **S&P 1500 Telecommunications Services Index** measures the performance of the telecommunications services sector in the S&P 1500 Index.
- **S&P Developed World Property** defines and measures the investable universe of publicly traded property companies domiciled in developed markets. The companies in the index are engaged in real estate related activities, such as property ownership, management, development, rental and investment.
- **S&P Developed World Property x U.S**. defines and measures the investable universe of publicly traded property companies domiciled in developed countries outside of the U.S. The companies included are engaged in real estate related activities, such as property ownership, management, development, rental and investment.
- **DWS Real Assets**: 30%: Dow Jones Brookfield Infrastructure Index, 30%: FTSE EPRA/NAREIT Developed Index,15%: Bloomberg Commodity Index, 15%: S&P Global Natural Resources Index, 10%: U.S. Treasury Inflation Notes Total Return Index
- **PIMCO Inflation Response Multi Asset Fund**: 45% Bloomberg U.S. TIPS, 20% Bloomberg Commodity Index, 15% JP Morgan Emerging Local Markets Plus, 10% Dow Jones Select REIT, 10% Bloomberg Gold Subindex Total Return
- **Principal Diversified Real Assets**: 35% BBgBarc U.S. Treasury TIPS Index, 20% S&P Global Infrastructure Index NTR, 20% S&P Global Natural Resources Index NTR, 15% Bloomberg Commodity Index, and 10% FTSE EPRA/NAREIT Developed Index NTR
- **Wellington Diversified Inflation** H: 50% MSCI ACWI Commodity Producers Index, 25% Bloomberg Commodity Index, and 25% Bloomberg Babbar US TIPS 1 – 10 Year Index
- **Cambridge Associates U.S. Private Equity Index** is based on data compiled from more than 1,200 institutional-quality buyout, growth equity, private equity energy, and mezzanine funds formed between 1986 and 2015.
- **Cambridge Associates U.S. Venture Capital Index** is based on data compiled from over1,600 institutional-quality venture capital funds formed between 1986 and 2015.
- **Vanguard Spliced Bloomberg US1-5Yr Gov/Cr Flt Adj Index**: Bloomberg U.S. 1–5 Year Government/Credit Bond Index through December 31, 2009; Bloomberg U.S. 1–5 Year Government/Credit Float Adjusted Index thereafter.
- **Vanguard Spliced Bloomberg US5-10Yr Gov/Cr Flt Adj Index**: Bloomberg U.S. 5–10 Year Government/Credit Bond Index through December 31, 2009; Bloomberg U.S. 5–10 Year Government/Credit Float Adjusted Index thereafter.
- **Vanguard Spliced Bloomberg US Agg Flt Adj Index**: Bloomberg U.S. Aggregate Bond Index through December 31, 2009; Bloomberg U.S. Aggregate Float Adjusted Index thereafter.
- **Vanguard Spliced Bloomberg US Long Gov/Cr Flt Adj Index**: Bloomberg U.S. Long Government/Credit Bond Index through December 31, 2009; Bloomberg U.S. Long Government/Credit Float Adjusted Index thereafter.
- **Vanguard Balanced Composite Index**: Made up of two unmanaged benchmarks, weighted 60% Dow Jones U.S. Total Stock Market Index (formerly the Dow Jones Wilshire 5000 Index) and 40% Bloomberg U.S. Aggregate Bond Index through May 31, 2005; 60% MSCI US Broad Market Index and 40% Bloomberg U.S. Aggregate Bond Index through December 31, 2009; 60% MSCI US Broad Market Index and 40% Bloomberg U.S. Aggregate Float Adjusted Index through January 14, 2013; and 60% CRSP US Total Market Index and 40% Blomberg U.S. Aggregate Float Adjusted Index thereafter.

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Disclosures – Index & Benchmark Definitions

- **Vanguard Spliced Intermediate-Term Tax-Exempt Index**: Bloomberg 1–15 Year Municipal Bond Index.
- **Vanguard Spliced Extended Market Index**: Dow Jones Wilshire 4500 Index through June 17, 2005; S&P Transitional Completion Index through September 16, 2005; S&P Completion Index thereafter.
- **Vanguard Spliced Value Index**: S&P 500 Value Index (formerly the S&P 500/Barra Value Index) through May 16, 2003; MSCI US Prime Market Value Index through April 16, 2013; CRSP US Large Cap Value Index thereafter.
- **Vanguard Spliced Large Cap Index**: Consists of MSCI US Prime Market 750 Index through January 30, 2013, and the CRSP US Large Cap Index thereafter.
- **Vanguard Spliced Growth Index**: S&P 500 Growth Index (formerly the S&P 500/Barra Growth Index) through May 16, 2003; MSCI US Prime Market Growth Index through April 16, 2013; CRSP US Large Cap Growth Index thereafter.
- **Vanguard Spliced Mid Cap Value Index**: MSCI US Mid Cap Value Index through April 16, 2013; CRSP US Mid Cap Value Index thereafter.
- **Vanguard Spliced Mid Cap Index**: S&P MidCap 400 Index through May 16, 2003; the MSCI US Mid Cap 450 Index through January 30, 2013; and the CRSP US Mid Cap Index thereafter.
- **Vanguard Spliced Mid Cap Growth Index**: MSCI US Mid Cap Growth Index through April 16, 2013; CRSP US Mid Cap Growth Index thereafter.
- **Vanguard Spliced Total Stock Market Index**: Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005; MSCI US Broad Market Index through June 2, 2013; and CRSP US Total Market Index thereafter.
- **Vanguard Spliced Small Cap Value Index**: SmallCap 600 Value Index (formerly the S&P SmallCap 600/Barra Value Index) through May 16, 2003; MSCI US Small Cap Value Index through April 16, 2013; CRSP US Small Cap Value Index thereafter.
- **Vanguard Spliced Small Cap Index**: Russell 2000 Index through May 16, 2003; the MSCI US Small Cap 1750 Index through January 30, 2013; and the CRSP US Small Cap Index thereafter.
- **Vanguard Spliced Small Cap Growth Index**: S&P SmallCap 600 Growth Index (formerly the S&P SmallCap 600/Barra Value Index) through May 16, 2003; MSCI US Small Cap Growth Index through April 16, 2013; CRSP US Small Cap Growth Index thereafter.
- **Vanguard Spliced Total International Stock Index**: Consists of the Total International Composite Index through August 31, 2006; the MSCI EAFE + Emerging Markets Index through December 15, 2010; the MSCI ACWI ex USA IMI Index through June 2, 2013; and FTSE Global All Cap ex US Index thereafter. Benchmark returns are adjusted for withholding taxes.
- **Vanguard Spliced Developed Markets Index**: MSCI EAFE Index through May 28, 2013; FTSE Developed ex North America Index through December 20, 2015; FTSE Developed All Cap ex US Transition Index through May 31, 2016; FTSE Developed All Cap ex US Index thereafter. Benchmark returns are adjusted for withholding taxes.
- **Vanguard Spliced Emerging Markets Index**: Select Emerging Markets Index through August 23, 2006; MSCI Emerging Markets Index through January 9, 2013; FTSE Emerging Transition Index through June 27, 2013; FTSE Emerging Index through November 1, 2015; and FTSE Emerging Markets All Cap China A Transition Index thereafter. Benchmark returns are adjusted for withholding taxes.
- **Vanguard REIT Spliced Index**: MSCI US REIT Index adjusted to include a 2% cash position (Lipper Money Market Average) through April 30, 2009; MSCI US REIT Index through January 31, 2018; MSCI US Investable Market Real Estate 25/50 Transition Index through July 24, 2018; MSCI US Investable Market Real Estate 25/50 Index thereafter.

Additional Information

- Equity sector returns are calculated by S&P, Russell, and MSCI for domestic and international markets, respectively. S&P and MSCI sector definitions correspond to the GICS® classification (Global Industry Classification System); Russell uses its own sector and industry classifications.
- MSCI country indices are free float-adjusted market capitalization indices that are designed to measure equity market performance of approximately 85% of the market capitalization in each specific country.
- Currency returns are calculated using FactSet's historical spot rates and are calculated using the U.S. dollar as the base currency.
- The Index of Leading Economic Indicators, calculated by The Conference Board, is used as a barometer of economic activity over a range of three to six months. The index is used to determine the direction and stability of the economy. The composite index of leading indicators, which is derived from 10 leading indicators, helps to signal turning points in the economy and forecast economic cycles. The leading indicators are the following: average weekly hours, average weekly initial claims, manufacturers' new orders, both consumer and non-defense capital goods, vendor performance, building permits, stock prices, money supply (M2), the interest rate spread and the index of consumer expectations.
- S&P Target Date Indexes are constructed using a survey method of current target date investments with $100 million or more in assets under management. Allocations for each vintage are comprised of exchange traded funds that represent respective asset classes used in target date portfolios. The indexes are designed to represent a market consensus glide path.

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