



VERTEX PLANNING PARTNERS
— LLC —

Q1

Quarterly Market Review

First Quarter 2019



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This report features world capital market performance and a timeline of events for the past quarter. It begins with a global overview, then features the returns of stock and bond asset classes in the US and international markets.

The report also illustrates the impact of globally diversified portfolios and features a quarterly topic.

Overview:

Market Summary

World Stock Market Performance

World Asset Classes

US Stocks

International Developed Stocks

Emerging Markets Stocks

Real Estate Investment Trusts (REITs)

Commodities

Fixed Income

Global Fixed Income

Impact of Diversification



Vertex Planning Partners Q'1 2019 Market Review

“It ain't over 'til it's over”.

After persistent worry over slowing economic growth, trade tension and the specter of Recession led to a 4th quarter market selloff, the market roared back in the 1st quarter to double digit equity returns and strong numbers from bond markets. Domestically, the S&P 500 total return in the period was 13.65%, the Dow Jones Composite a positive 11.52%, and the Small Cap Russell 2000 total return 14.58%. Fixed income had strong returns as yields fell, with the Bloomberg Barclays US Aggregate a positive 2.94%. Overseas, Foreign Developed Markets were up 10.13% (MSCI EAFE) and Emerging Markets up 9.97% (MSCI EM).

What changed? With a not so subtle modification of its official stance, the Fed reversed its course in 2019 after again raising rates in December. Instead of marching ahead with its pledge to gradually raise rates (putting the breaks on a heated economy), the Fed took a new stance of “patience” (1), both in rate hikes as well as backing off on its “autopilot” balance sheet runoff (2) (which created a tightening of liquidity in the financial markets). This Central Bank breather, along with more positive news on the trade front (3) and massive Chinese stimulus (4) have helped contribute to a reversal in risk assets and reward the investor who stayed the course.

Market sentiment has rebounded as the difficulties of 2018 fade from memory. Which means it is time to bring things to perspective: The US market is still growing, although we are late cycle (5) and uncertainty around asset prices have been building as illustrated by higher market volatility. Generally late cycle investing provides respectable returns, but also can be the opportunity to upgrade the quality of the equity investment (better balance sheets, less sensitivity to economic cycle) and bonds (high grade vs riskier credit) in order to protect against the inevitable downturn proceeding the next recession.

The impact of our outlook is expressed in the following themes carried through to our portfolios:

- *Broad global diversification utilizing low-cost investments*
- *Active management to focus on the quality of the underlying business and management*
- *Index strategies investing in lower volatility portfolios*
- *Exposure to Real Estate / Infrastructure that historically have been an effective hedge against rising prices and declining currency values*
- *Alternative managers that combine strategies aiming to take advantage of increased volatility in rates, currencies and public equity and bond markets*
- *Pursue high risk/reward performance through actively managed fixed income investing in lower credit risk strategies*

1. <https://www.ft.com/content/d4775eb6-24c1-11e9-8ce6-5db4543da632>
2. <https://www.spglobal.com/marketintelligence/en/news-insights/trending/om4xrbhnqi3qb3seq0qyiw2>
3. <https://www.nytimes.com/2019/03/03/business/us-china-trade-deal-trump.html>
4. <https://www.cnbc.com/2019/01/15/chinas-finance-ministry-says-to-step-up-fiscal-expenditure-this-year.html>
5. <https://www.cnbc.com/2019/01/23/wall-street-agrees-we-are-in-a-late-cycle-economy-heres-what-it-means-and-how-to-invest-in-it.html>

The opinions voiced in this material are for general information only and are not intended to provide specific advice or recommendations for any individual. All performance referenced is historical and is no guarantee of future results. All indices are unmanaged and may not be invested into directly. The economic forecasts set forth may not develop as predicted.

No strategy assures success or protects against loss and there is no guarantee that their objectives will be met.

Alternative investments may not be suitable for all investors and should be considered as an investment for the risk capital portion of the investor's portfolio. The strategies employed in the management of alternative investments may accelerate the velocity of potential losses

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Market Summary

Index Returns

	US Stock Market	International Developed Stocks	Emerging Markets Stocks	Global Real Estate		US Bond Market	Global Bond Market ex US
Q1 2019	STOCKS					BONDS	
	14.04%	10.45%	9.92%	14.07%		2.94%	2.96%
Since Jan. 2001							
Avg. Quarterly Return	2.0%	1.4%	2.9%	2.6%		1.1%	1.1%
Best Quarter	16.8% 2009 Q2	25.9% 2009 Q2	34.7% 2009 Q2	32.3% 2009 Q3		4.6% 2001 Q3	4.6% 2008 Q4
Worst Quarter	-22.8% 2008 Q4	-21.2% 2008 Q4	-27.6% 2008 Q4	-36.1% 2008 Q4		-3.0% 2016 Q4	-2.7% 2015 Q2

Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Market segment (index representation) as follows: US Stock Market (Russell 3000 Index), International Developed Stocks (MSCI World ex USA Index [net div.]), Emerging Markets (MSCI Emerging Markets Index [net div.]), Global Real Estate (S&P Global REIT Index [net div.]), US Bond Market (Bloomberg Barclays US Aggregate Bond Index), and Global Bond Market ex US (Bloomberg Barclays Global Aggregate ex-USD Bond Index [hedged to USD]). S&P data © 2019 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved. Frank Russell Company is the source and owner of the trademarks, service marks, and copyrights related to the Russell Indexes. MSCI data © MSCI 2019, all rights reserved. Bloomberg Barclays data provided by Bloomberg.



Long-Term Market Summary

Index Returns

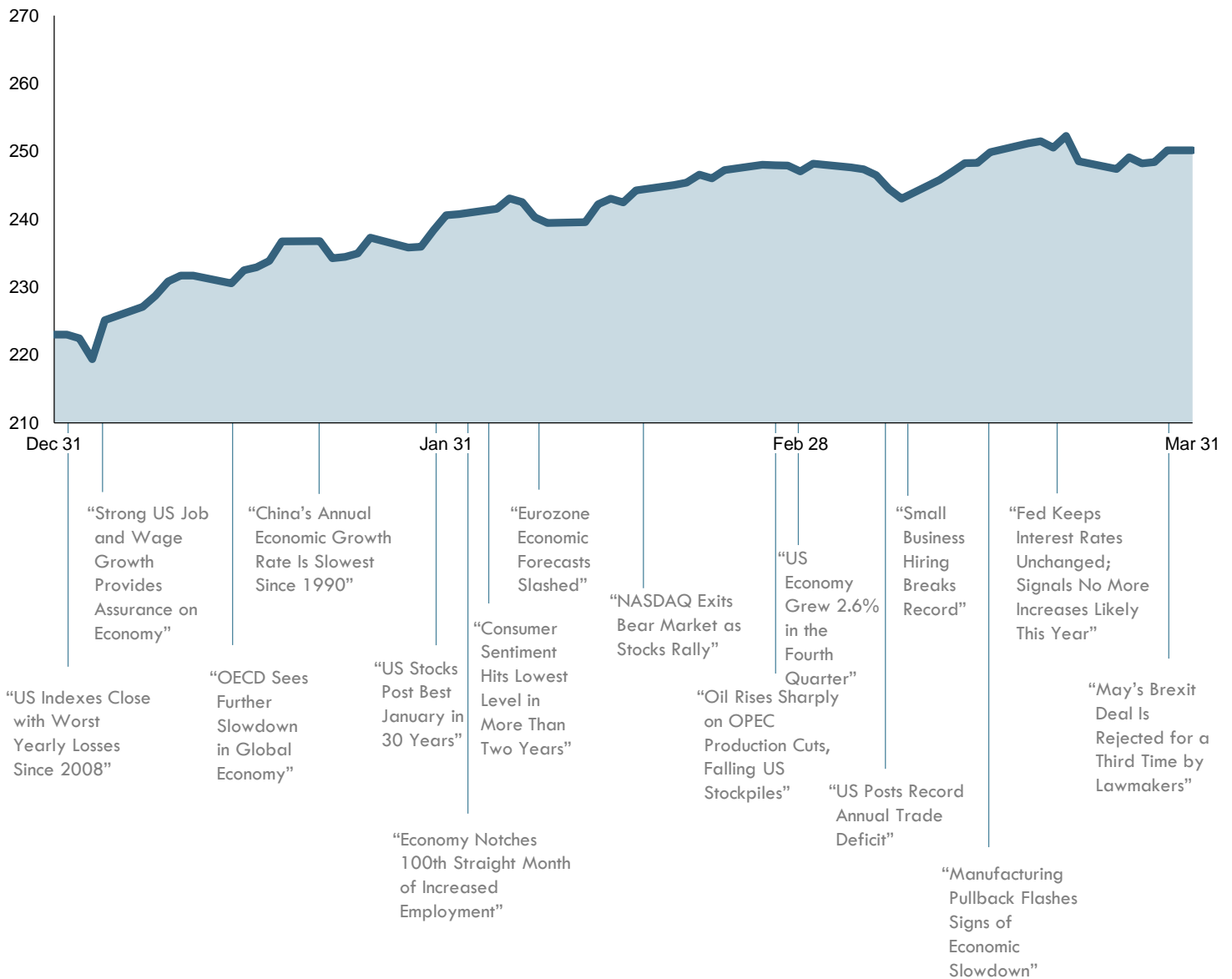
	US Stock Market	International Developed Stocks	Emerging Markets Stocks	Global Real Estate	US Bond Market	Global Bond Market ex US
1 Year	STOCKS				BONDS	
	8.77%	-3.14%	-7.41%	13.93%	4.48%	5.23%
5 Years						
	10.36%	2.20%	3.68%	6.63%	2.74%	4.27%
10 Years						
	16.00%	8.82%	8.94%	14.84%	3.77%	4.29%

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World Stock Market Performance

MSCI All Country World Index with selected headlines from Q1 2019



These headlines are not offered to explain market returns. Instead, they serve as a reminder that investors should view daily events from a long-term perspective and avoid making investment decisions based solely on the news.

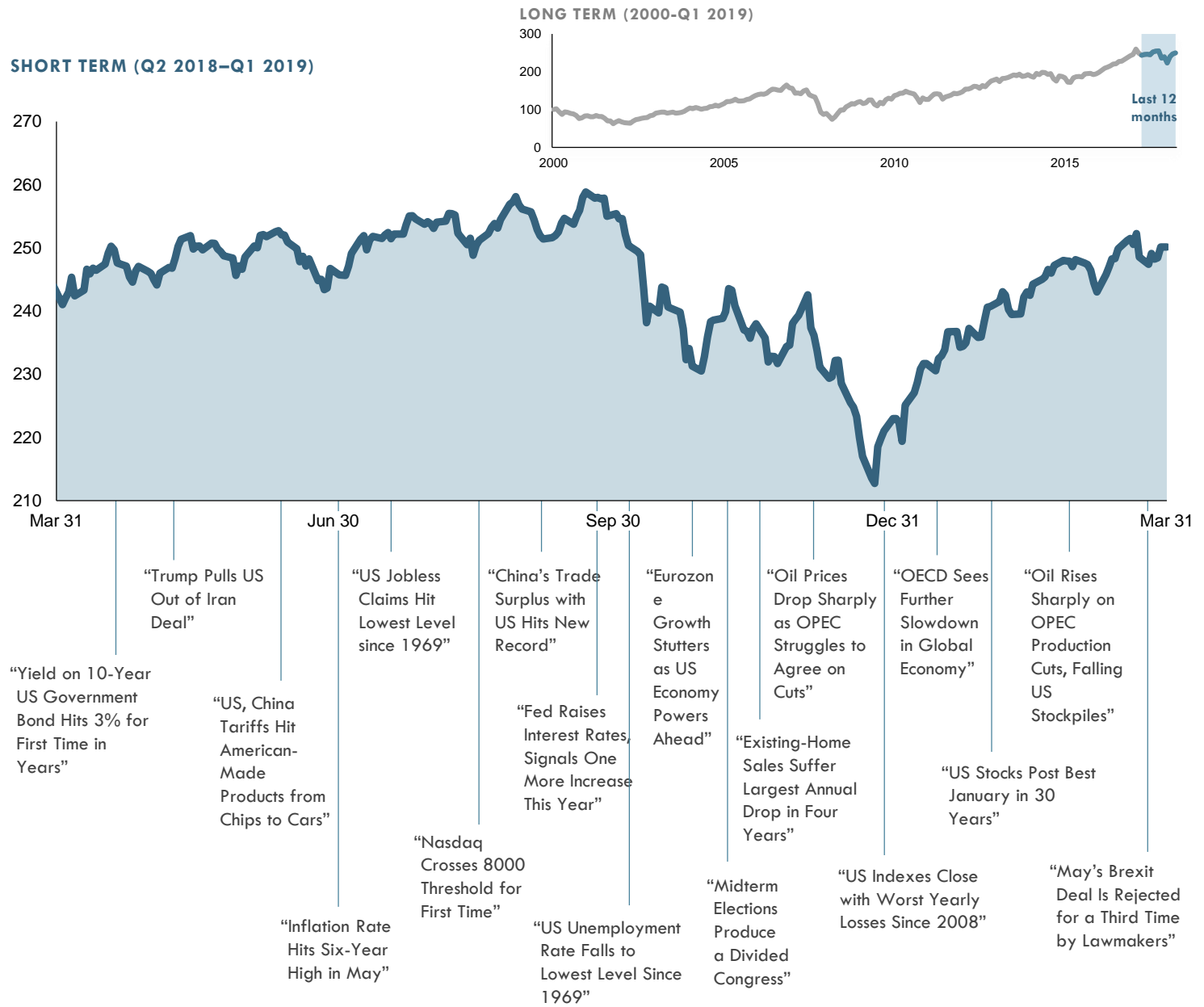
Graph Source: MSCI ACWI Index [net div.]. MSCI data © MSCI 2019, all rights reserved.

It is not possible to invest directly in an index. Performance does not reflect the expenses associated with management of an actual portfolio. **Past performance is not a guarantee of future results.**



World Stock Market Performance

MSCI All Country World Index with selected headlines from past 12 months



These headlines are not offered to explain market returns. Instead, they serve as a reminder that investors should view daily events from a long-term perspective and avoid making investment decisions based solely on the news.

Graph Source: MSCI ACWI Index [net div.]. MSCI data © MSCI 2019, all rights reserved.

It is not possible to invest directly in an index. Performance does not reflect the expenses associated with management of an actual portfolio. **Past performance is not a guarantee of future results.**



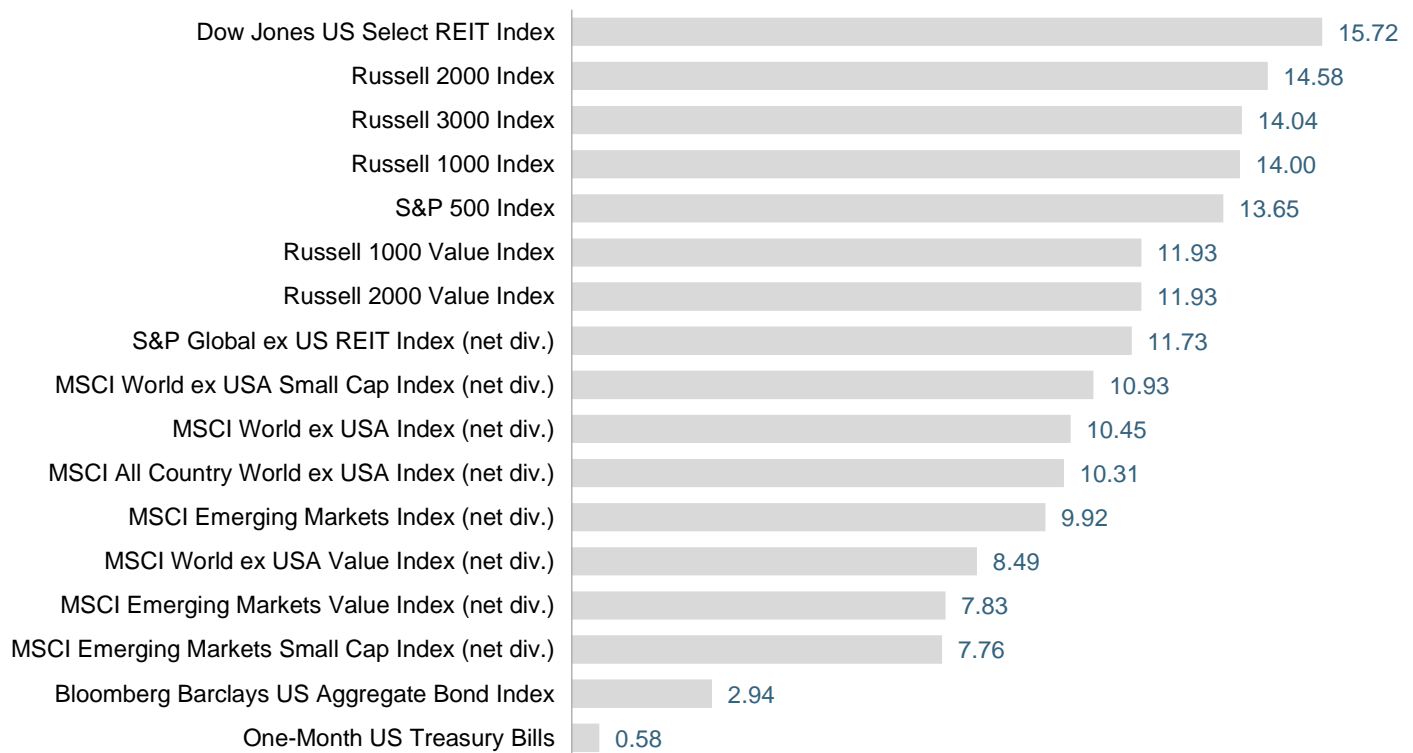
World Asset Classes

First Quarter 2019 Index Returns (%)

Equity markets posted positive returns around the globe in the first quarter. Looking at broad market indices, US equities outperformed non-US developed and emerging markets.

Small caps outperformed large caps in the US and non-US developed markets but underperformed in emerging markets. Value stocks generally underperformed growth stocks in all regions.

REIT indices outperformed equity market indices in both the US and non-US developed markets.



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US Stocks

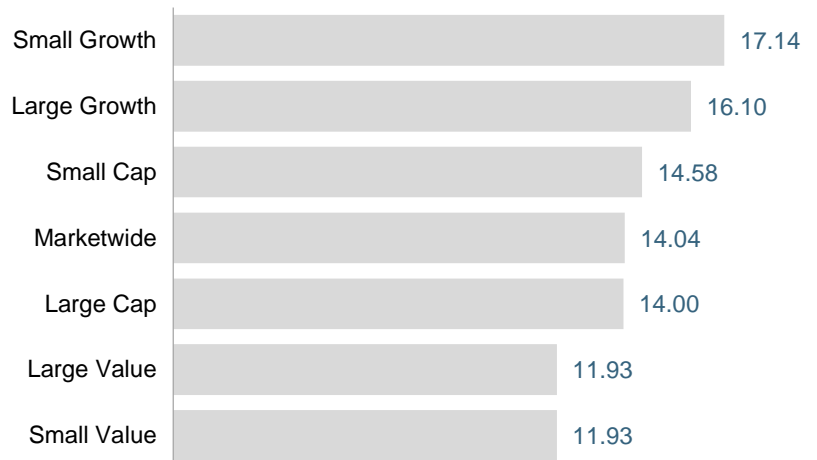
First Quarter 2019 Index Returns

US equities outperformed both non-US developed and emerging markets.

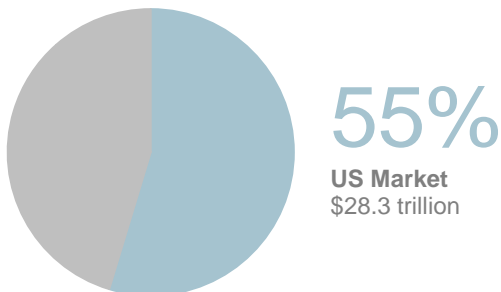
Small caps outperformed large caps in the US.

Value underperformed growth across large and small cap stocks.

Ranked Returns for the Quarter (%)



World Market Capitalization—US



Period Returns (%)

* Annualized

Asset Class	1 Year	3 Years*	5 Years*	10 Years*
Large Growth	12.75	16.53	13.50	17.52
Large Cap	9.30	13.52	10.63	16.05
Large Value	5.67	10.45	7.72	14.52
Small Growth	3.85	14.87	8.41	16.52
Small Cap	2.05	12.92	7.05	15.36
Small Value	0.17	10.86	5.59	14.12
Marketwide	8.77	13.48	10.36	16.00

Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Market segment (index representation) as follows: Marketwide (Russell 3000 Index), Large Cap (Russell 1000 Index), Large Cap Value (Russell 1000 Value Index), Large Cap Growth (Russell 1000 Growth Index), Small Cap (Russell 2000 Index), Small Cap Value (Russell 2000 Value Index), and Small Cap Growth (Russell 2000 Growth Index). World Market Cap represented by Russell 3000 Index, MSCI World ex USA IMI Index, and MSCI Emerging Markets IMI Index. Russell 3000 Index is used as the proxy for the US market. Frank Russell Company is source and owner of trademarks, service marks, and copyrights related to Russell Indexes. MSCI data © MSCI 2019, all rights reserved.



International Developed Stocks

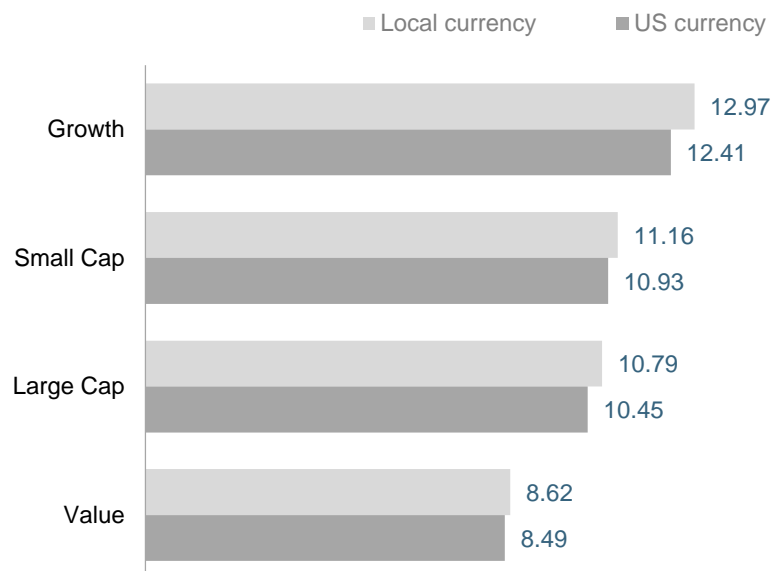
First Quarter 2019 Index Returns

In US dollar terms, developed markets outside the US outperformed emerging markets but underperformed the US equity market during the quarter.

Small caps outperformed large caps in non-US developed markets.

Value underperformed growth across large and small cap stocks.

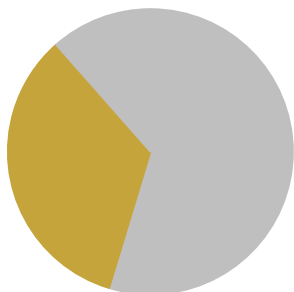
Ranked Returns for the Quarter (%)



World Market Capitalization—International Developed

34%

International Developed Market
\$17.5 trillion



Period Returns (%)

* Annualized

Asset Class	1 Year	3 Years*	5 Years*	10 Years*
Growth	-0.82	7.42	3.67	9.35
Large Cap	-3.14	7.29	2.20	8.82
Value	-5.46	7.13	0.68	8.25
Small Cap	-8.66	7.28	3.69	12.25

Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Market segment (index representation) as follows: Large Cap (MSCI World ex USA Index), Small Cap (MSCI World ex USA Small Cap Index), Value (MSCI World ex USA Value Index), and Growth (MSCI World ex USA Growth Index). All index returns are net of withholding tax on dividends. World Market Cap represented by Russell 3000 Index, MSCI World ex USA IMI Index, and MSCI Emerging Markets IMI Index. MSCI World ex USA IMI Index is used as the proxy for the International Developed market. MSCI data © MSCI 2019, all rights reserved. Frank Russell Company is the source and owner of the trademarks, service marks, and copyrights related to the Russell Indexes.



Emerging Markets Stocks

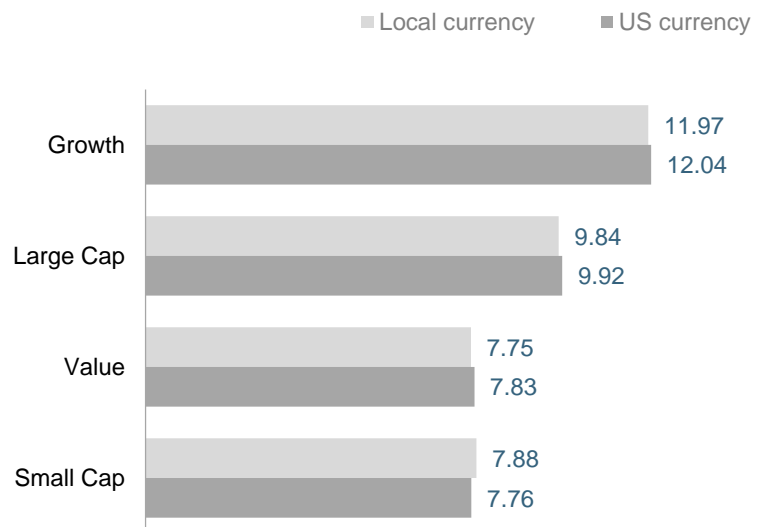
First Quarter 2019 Index Returns

In US dollar terms, emerging markets underperformed developed markets, including the US.

Value outperformed growth across small cap stocks but underperformed in large caps.

Small caps underperformed large caps.

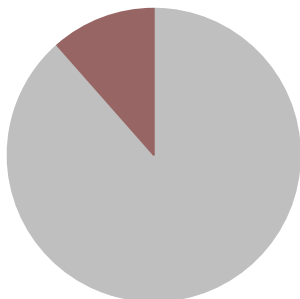
Ranked Returns for the Quarter (%)



World Market Capitalization— Emerging Markets

11%

Emerging
Markets
\$6.0 trillion



Period Returns (%)

* Annualized

Asset Class	1 Year	3 Years*	5 Years*	10 Years*
Value	-5.27	9.54	2.21	7.83
Large Cap	-7.41	10.68	3.68	8.94
Growth	-9.52	11.75	5.04	9.98
Small Cap	-12.42	5.95	1.76	10.37

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Real Estate Investment Trusts (REITs)

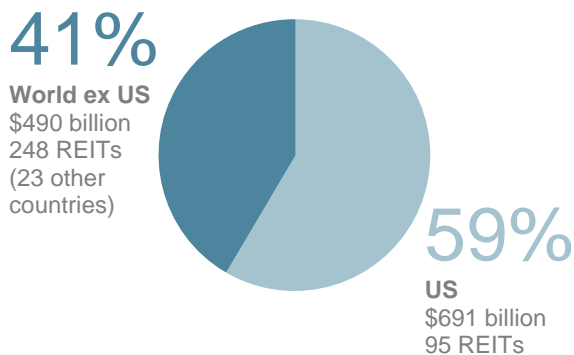
First Quarter 2019 Index Returns

US real estate investment trusts outperformed non-US REITs in US dollar terms.

Ranked Returns (%)



Total Value of REIT Stocks



Period Returns (%)

Asset Class	* Annualized			
	1 Year	3 Years*	5 Years*	10 Years*
US REITS	19.73	5.29	8.93	18.50
Global ex US REITS	4.75	4.34	5.03	12.18

Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Number of REIT stocks and total value based on the two indices. All index returns are net of withholding tax on dividends. Total value of REIT stocks represented by Dow Jones US Select REIT Index and the S&P Global ex US REIT Index. Dow Jones US Select REIT Index used as proxy for the US market, and S&P Global ex US REIT Index used as proxy for the World ex US market. Dow Jones and S&P data © 2019 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved.



Commodities

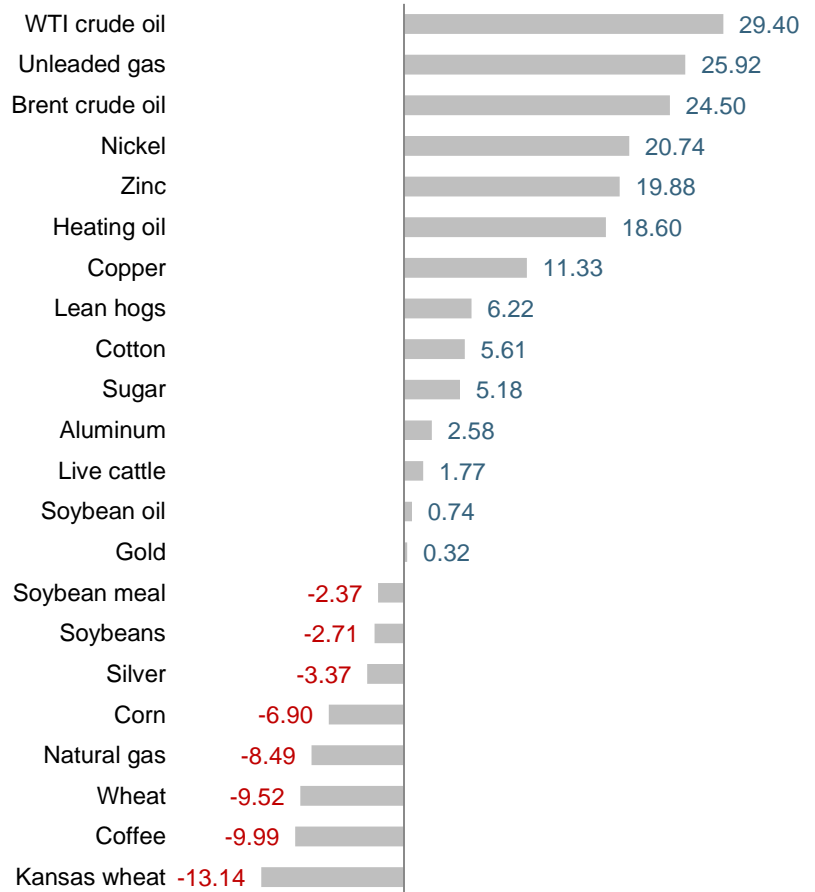
First Quarter 2019 Index Returns

The Bloomberg Commodity Index Total Return returned 6.32% for the first quarter of 2019.

The energy complex led quarterly performance. Crude oil gained 29.40%, and unleaded gas added 25.92%.

Grains was the worst-performing complex. Wheat (Kansas) and wheat (Chicago) declined by 13.14% and 9.52%, respectively.

Ranked Returns for Individual Commodities (%)



Period Returns (%)

* Annualized

Asset Class	QTR	1 Year	3 Years*	5 Years*	10 Years*
Commodities	6.32	-5.25	2.22	-8.92	-2.56

Past performance is not a guarantee of future results. Index is not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Commodities returns represent the return of the Bloomberg Commodity Total Return Index. Individual commodities are sub-index values of the Bloomberg Commodity Total Return Index. Data provided by Bloomberg.



Fixed Income

First Quarter 2019 Index Returns

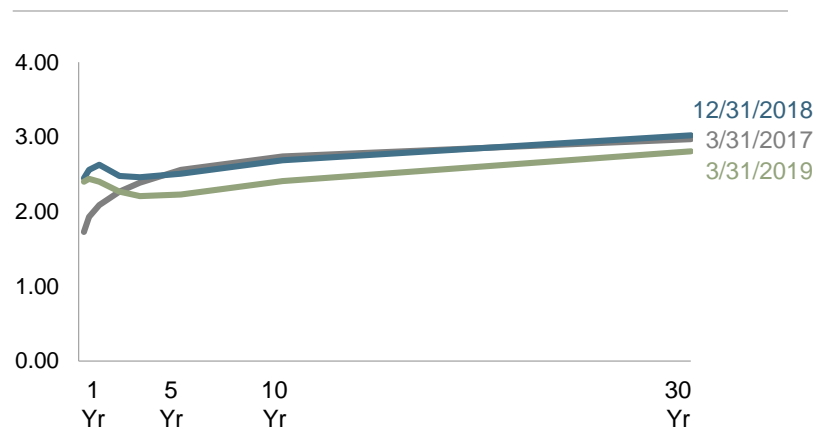
Interest rates decreased in the US Treasury fixed income market during the first quarter. The yield on the 5-year Treasury note declined 28 basis points (bps), ending at 2.23%. The yield on the 10-year Treasury note decreased 28 bps to 2.41%. The 30-year Treasury bond yield fell 21 bps to finish at 2.81%.

On the short end of the curve, the 1-month T-bill yield was relatively unchanged at 2.43%, while the 1-year T-bill yield dipped 23 bps to 2.40%. The 2-year Treasury note finished at 2.27% after a 21 bps decrease.

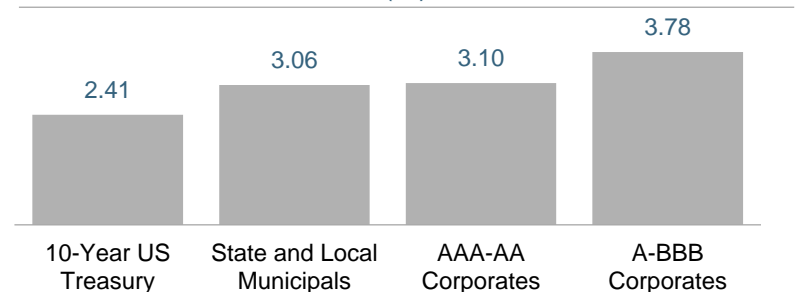
In terms of total returns, short-term corporate bonds gained 1.83%. Intermediate-term corporate bonds had a total return of 3.82%.

Total returns for short-term municipal bonds were 1.33%, while intermediate munis gained 2.78%. Revenue bonds outperformed general obligation bonds.

US Treasury Yield Curve (%)



Bond Yields across Issuers (%)



Period Returns (%)

* Annualized

Asset Class	QTR	1 Year	3 Years*	5 Years*	10 Years*
Bloomberg Barclays Municipal Bond Index	2.90	5.38	2.71	3.73	4.72
Bloomberg Barclays US Aggregate Bond Index	2.94	4.48	2.03	2.74	3.77
Bloomberg Barclays US Government Bond Index Long	4.64	6.20	1.54	5.43	5.19
Bloomberg Barclays US High Yield Corporate Bond Index	7.26	5.93	8.56	4.68	11.26
Bloomberg Barclays US TIPS Index	3.19	2.70	1.70	1.94	3.41
FTSE World Government Bond Index 1-5 Years	0.34	-2.04	0.40	-0.95	0.71
FTSE World Government Bond Index 1-5 Years (hedged to USD)	1.16	3.13	1.59	1.65	1.73
ICE BofAML 1-Year US Treasury Note Index	0.82	2.44	1.21	0.85	0.70
ICE BofAML US 3-Month Treasury Bill Index	0.60	2.12	1.19	0.74	0.43

One basis point equals 0.01%. Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Yield curve data from Federal Reserve. State and local bonds are from the S&P National AMT-Free Municipal Bond Index. AAA-AA Corporates represent the ICE BofAML US Corporates, AA-AAA rated. A-BBB Corporates represent the ICE BofAML US Corporates, BBB-A rated. Bloomberg Barclays data provided by Bloomberg. US long-term bonds, bills, inflation, and fixed income factor data © Stocks, Bonds, Bills, and Inflation (SBBBI) Yearbook™, Ibbotson Associates, Chicago (annually updated work by Roger G. Ibbotson and Rex A. Sinquefeld). FTSE fixed income indices © 2019 FTSE Fixed Income LLC, all rights reserved. ICE BofAML index data © 2019 ICE Data Indices, LLC. S&P data © 2019 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved.



Global Fixed Income

First Quarter 2019 Yield Curves

Interest rates in the global developed markets generally decreased during the quarter.

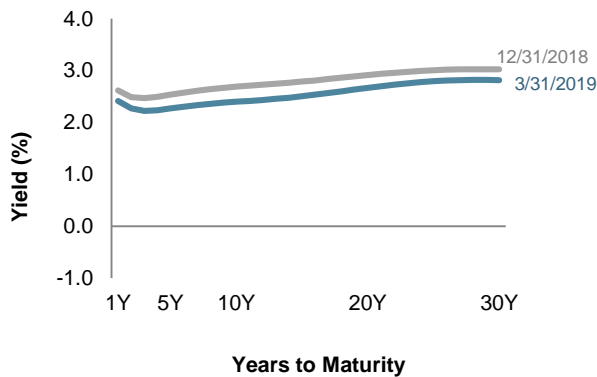
Longer-term bonds generally outperformed shorter-term bonds.

Nominal rates in Germany and Japan are negative out to approximately 10 years.

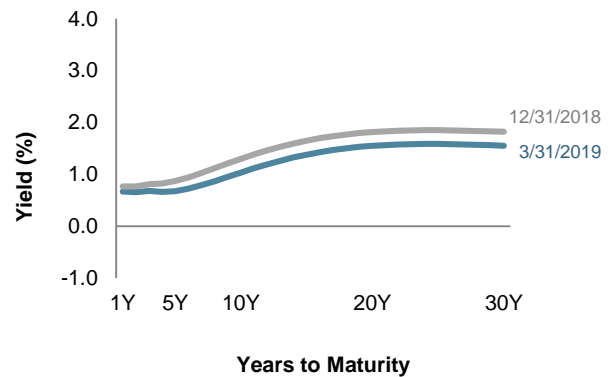
Changes in Yields (bps) since 9/30/2018

	1Y	5Y	10Y	20Y	30Y
US	-20.7	-26.5	-29.1	-24.5	-20.4
UK	-10.2	-19.5	-26.4	-26.4	-27.0
Germany	17.9	-17.9	-33.6	-31.0	-29.0
Japan	-3.4	-5.6	-9.5	-16.8	-21.5

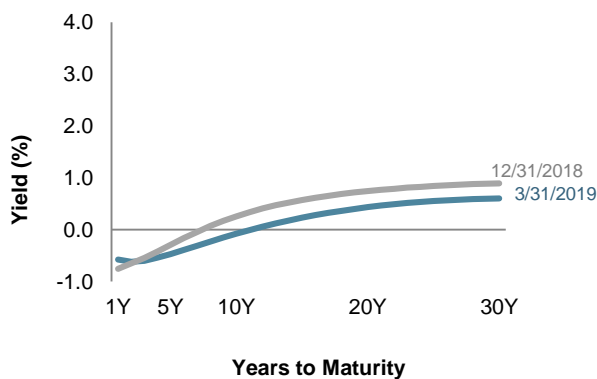
US



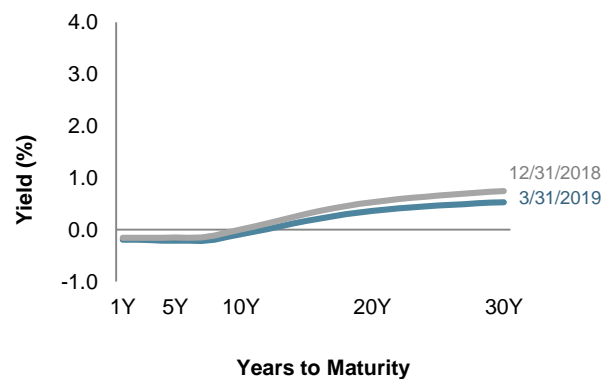
UK



Germany



Japan



One basis point equals 0.01%. Source: ICE BofAML government yield. ICE BofAML index data © 2019 ICE Data Indices, LLC.

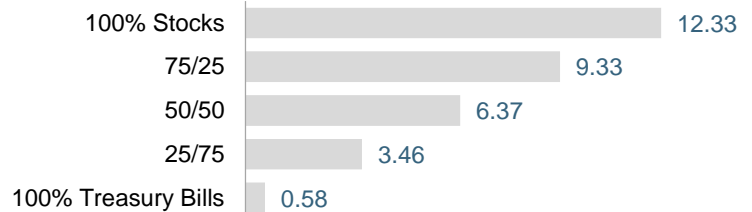


Impact of Diversification

First Quarter 2019 Index Returns

These portfolios illustrate the performance of different global stock/bond mixes and highlight the benefits of diversification. Mixes with larger allocations to stocks are considered riskier but have higher expected returns over time.

Ranked Returns (%)

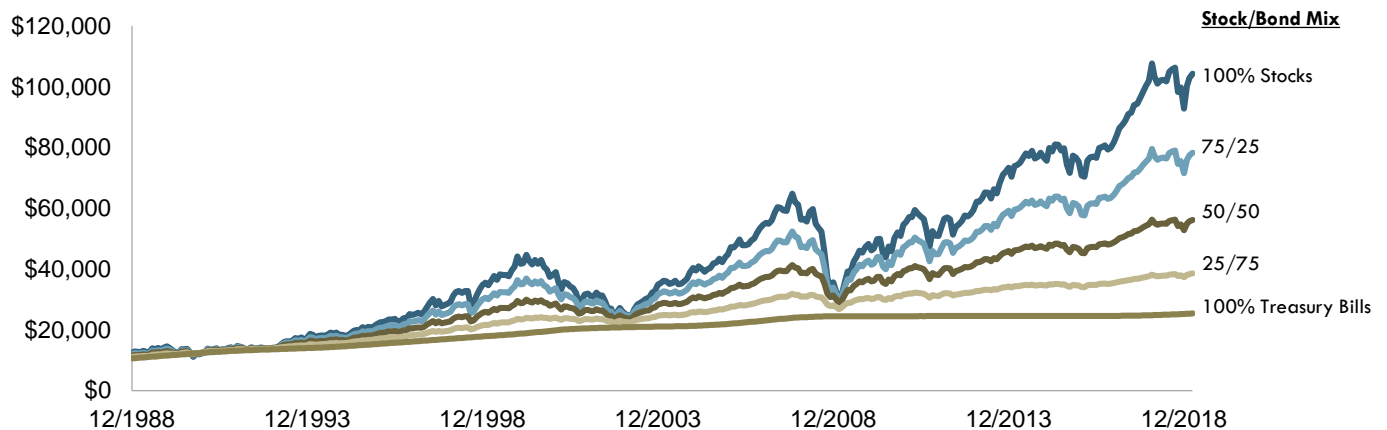


Period Returns (%)

* Annualized

Asset Class	1 Year	3 Years*	5 Years*	10 Years*	10-Year STDEV ¹
100% Stocks	3.16	11.27	7.03	12.58	13.92
75/25	3.07	8.75	5.53	9.60	10.44
50/50	2.85	6.21	3.97	6.57	6.95
25/75	2.51	3.67	2.35	3.49	3.48
100% Treasury Bills	2.05	1.11	0.68	0.37	0.18

Growth of Wealth: The Relationship between Risk and Return



1. STDEV (standard deviation) is a measure of the variation or dispersion of a set of data points. Standard deviations are often used to quantify the historical return volatility of a security or portfolio.

Diversification does not eliminate the risk of market loss. **Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect expenses associated with the management of an actual portfolio.** Asset allocations and the hypothetical index portfolio returns are for illustrative purposes only and do not represent actual performance. Global Stocks represented by MSCI All Country World Index (gross div.) and Treasury Bills represented by US One-Month Treasury Bills. Globally diversified allocations rebalanced monthly, no withdrawals. Data © MSCI 2019, all rights reserved. Treasury bills © Stocks, Bonds, Bills, and Inflation Yearbook™, Ibbotson Associates, Chicago (annually updated work by Roger G. Ibbotson and Rex A. Sinquefeld).

Important Risk Disclosures

The fast price swings in commodities and currencies will result in significant volatility in an investor's holdings. Currency Risk -because the security invests in stocks denominated in foreign currencies, changes in currency exchange rates may negatively impact the securities return. The values of the foreign currencies may be subject to a high degree of fluctuation due to changes in interest rates, the TS-8 effects of monetary policies issued by the United States, foreign governments, central banks or supranational entities, the imposition of currency controls or other national or global political or economic developments. International and emerging market investing involves special risks such as currency fluctuation and political instability and may not be suitable for all investors. Investing in Real Estate Investment Trusts (REITs) involves special risks such as potential illiquidity and may not be suitable for all investors. There is no assurance that the investment objectives of this program will be attained. Small Cap stocks may be subject to a higher degree of risk than more established companies' securities. The illiquidity of the Small Cap market may adversely affect the value of these investments. Value investments can perform differently from the market as a whole. They can remain undervalued by the market for long periods of time. Municipal bonds are subject to availability, price, and to market and interest rate risk if sold prior to maturity. Bond values will decline as interest rate rise. Interest income may be subject to the alternative minimum tax. Federally tax-free but other state and local taxes may apply. Government bonds and Treasury Bills are guaranteed by the U.S. government as to the timely payment of principal and interest and, if held to maturity, offer a fixed rate of return and fixed principal value. Bonds are subject to market and interest rate risk if sold prior to maturity. Bond values will decline as interest rates rise and bonds are subject to availability and change in price. Credit Quality is one of the principal criteria for judging the investment quality of a bond or bond mutual fund. As the term implies, credit quality informs investors of a bond or bond portfolio's credit worthiness, or risk of default. There is no guarantee that a diversified portfolio will enhance overall returns or outperform a non-diversified portfolio. Diversification does not ensure against market risk. This market information has been prepared by Dimensional Fund Advisors (DFA). DFA is not affiliated with LPL Financial.

Index Definition:

An index is a statistical measure that shows changes in the economy or financial markets and serves as a benchmark against which economic and financial performance is measured. Indices are not available for direct investment; its performance does not reflect the expenses associated with the management of an actual portfolio. Past performance is no guarantee of future results.

Bank of America Merrill Lynch US Corporate Bond Index

Tracks the performance of US dollar denominated investment grade rated corporate debt publicly issued in the US domestic market.

Bloomberg Barclays U.S. Aggregate Bond Index

The Bloomberg Barclays U.S. Aggregate Bond Index is an index of the U.S. investment-grade fixed-rate bond market, including both government and corporate bonds.

Bloomberg Barclays U.S Corporate High-Yield Bond Index

The Bloomberg Barclays U.S Corporate High-Yield Bond Index is an unmanaged market value weighted index composed of fixed-rate, publicly issued, non-investment grade debt.

Citi World Government Bond Index (WGBI) ex US

Measures the performance of fixed-rate, local currency, investment-grade sovereign bonds, not including those of the United States.

Dow Jones US Select REIT Index

Is comprised of all publicly traded real estate investment trusts in the Dow Jones U.S. stock universe (i.e. real estate investment trusts (REITs) and real estate operating companies (REOCs) traded in the U.S). The indexes are designed to serve as proxies for direct real estate investment, in part by excluding companies whose performance may be driven by factors other than the value of real estate. Date of introduction Total Return: January 30, 1987; Price Return: December 31, 1998

The MSCI ACWI (All Country World Index)

The MSCI ACWI (All Country World Index) 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 All Country World Index includes 48 markets. The index has been calculated since 1995

MSCI ACWI Ex USA Growth Index

The MSCI ACWI ex USA Growth Index captures large and mid cap securities exhibiting overall growth style characteristics across 22 Developed Markets (DM) countries and 23 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 World Ex USA Index

Captures large and mid cap representation across 22 of 23 Developed Markets (DM) countries--excluding the United States. With 1,024 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in each country.

MSCI World Ex USA Value Index

Captures large and mid cap securities exhibiting overall value style characteristics across 22 of 23 Developed Markets 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 World Ex USA Small Cap Index

Captures small cap representation across 22 of 23 Developed Markets (DM) countries (excluding the United States). With 2,454 constituents, the index covers approximately 14% of the free float-adjusted market capitalization in each country.

MSCI US Broad Market Index

The MSCI US Broad Market Index captures broad US equity coverage. The index includes 3,204 constituents across large, mid, small and micro capitalizations, representing about 99% of the US equity universe.

MSCI Emerging Markets Index

The MSCI Emerging Markets Index has a base date of December 31, 1987. It is a free float-adjusted market capitalization index that is designed to measure equity market performance of emerging markets.

MSCI Emerging Markets Growth Index

Captures large and mid cap securities exhibiting overall growth style characteristics across 23 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 Value Index

Captures large and mid cap securities exhibiting overall value style characteristics across 23 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 Small Cap Index

Includes small cap representation across 23 Emerging Markets countries. With 1,840 constituents, the index covers approximately 14% of the free float-adjusted market capitalization in each country.

Russell 1000 Index

The Russell 1000 Index consists of the 1,000 largest securities in the Russell 3000 Index, which represents approximately 90% of the total market capitalization of the Russell 3000 Index. It is a large-cap, market-oriented index and is highly correlated with the S&P 500 Index.

Russell 1000 Value Index

The Russell 1000 Value Index measures the performance of the large-cap value segment of the U.S. equity universe. It includes those Russell 1000 companies with lower price-to-book ratios and lower expected growth values. . The index is a subset of the much larger Russell 3000 Index It is reconstituted annually.

Russell 2000 Index

The Russell 2000 Index measures the performance of the small-cap segment of the U.S. equity universe. The Russell 2000 Index is a subset of the Russell 3000® Index representing approximately 10% of the total market capitalization of that index. It includes approximately 2000 of the smallest securities based on a combination of their market cap and current index membership. It is reconstituted annually and was launched in 1984.

Russell 2000 Growth Index

Measures the performance of those Russell 2000 companies with higher price-to book ratios and higher forecasted growth values.

Russell 2000 Value Index

Measures the performance of those Russell 2000 companies with lower price-to book ratios and lower forecasted growth values.

Russell 3000 Index

The Russell 3000 Index measures the performance of the largest 3000 U.S. companies representing approximately 98% of the investable U.S. equity market. The U.S.-based requirement disqualifies many large international firms from inclusion into the index. It is reconstituted annually and was started in 1984. The Russell indices are owned and maintained by Russell Investments.

Standard & Poor's 500 Index

The Standard & Poor's 500 Index is a capitalization weighted index of 500 stocks designed to measure performance of the broad domestic economy through changes in the aggregate market value of 500 stocks representing all major industries.

S&P Global REIT Index

The index consists of all real estate investment trusts in both developed and emerging markets. S&P Global REIT ex-US Index The index consists of all real estate investment trusts in both developed and emerging markets, not including the United States.

S&P National AMT-Free Municipal Bond Index

The S&P National AMT-Free Municipal Bond Index is a broad, comprehensive, market value-weighted index designed to measure the performance of the investment-grade tax-exempt U.S. municipal bond market.