

Quarterly Market Review

Fourth Quarter 2018





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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:

Quarterly Market Commentary

Market Summary

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Emerging Markets Stocks

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Select Currency Performance vs. US Dollar

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Commodities

Fixed Income

Global Fixed Income

Impact of Diversification



Quarterly Market Commentary

Fourth Quarter 2018 - January 14, 2019

What if Charles Dickens had begun his classic "Tale of Two Cities" as follows: *It wasn't the best of times, it wasn't the worst of times, it was the usual mixed bag.*

While the statement may reflect reality, it doesn't grab your attention half as well as Dickens' actual opening sentence describing the French Revolution. As he concluded about the period, "some of its noisiest authorities insisted on its being received, for good or for evil, in the superlative degree of comparison only."

Thus, we've long known about our infatuation with extremes – *Best! Worst! Delight! Despair!* These are the sentiments that fuel our dreams and inspire our works of art. But you do yourself a disservice if you allow superlatives to rule your investing. In capital markets, if you get caught up in extremes and devalue the sweeping tides of time, you risk giving up your greatest edge: a clear-eyed understanding of what's really going on. As we reflect on the events of 2018, here are two evidencebased points worth repeating:

1. "Average" annual investment returns aren't typical; in fact, they're rare.

To quote a more contemporary source than Dickens, Cliff Asness of fund manager AQR <u>recently</u> <u>observed</u>: "This world is pretty much designed to convince us that we're always at DEFCON 1, when 5 is the mode and 4.5 the mean."

This brings us to our second point.

2. You are human; you are susceptible to recency bias.

While there are many behavioral biases that trick us into sabotaging our best financial interests, we're especially interested in the damage **recency bias** could cause in current conditions.

Recency bias can trick your brain into downplaying decades of robust market performance data, while magnifying the run of unusually calm market conditions we've been enjoying relatively recently – essentially since <u>March 2009</u>. This in turn may lead you to lend more weight than is warranted to current volatility.

That's not to say the ride will be fun if we encounter more turbulence ahead. But by remembering extremes are actually the norm in your quest to generate durable long-term returns, you stand a much better chance of preserving your objective perspective and your portfolio, come what may.

We are grateful for the opportunity to remain at your side, ever eager to advise your course through whatever the markets have in store for us in 2019 and beyond. How can we help? Let us know!

David Bromelkamp President and CEO Chief Investment Officer



Market Summary

-22.8%

2008 Q4

-21.2%

2008 Q4

Index Returns

Worst Quarter

	US Stock Market	International Developed Stocks	Emerging Markets Stocks	Global Real Estate	US Bond Market	Global Bond I Market ex US
Q4 2018		STO	скѕ		E	BONDS
	-14.30%	-12.78%	-7.47%	-5.79%	1.64%	1.89%
Since Jan. 2001						
Avg. Quarterly Return	1.8%	1.3%	2.8%	2.4%	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 Q 3	4.6% 3 2008 Q4

-27.6%

2008 Q4

-36.1%

2008 Q4

-3.0%

2016 Q4

-2.7%

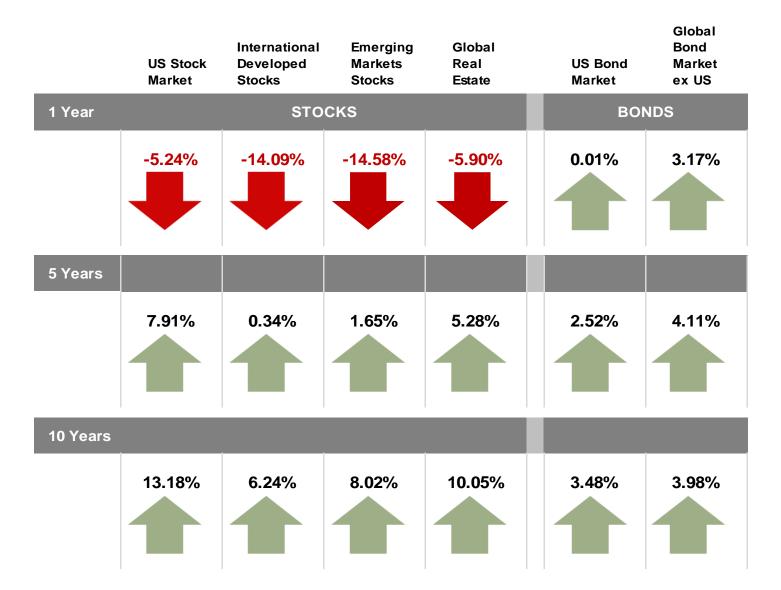
2015 Q2

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Long-Term Market Summary

Index Returns

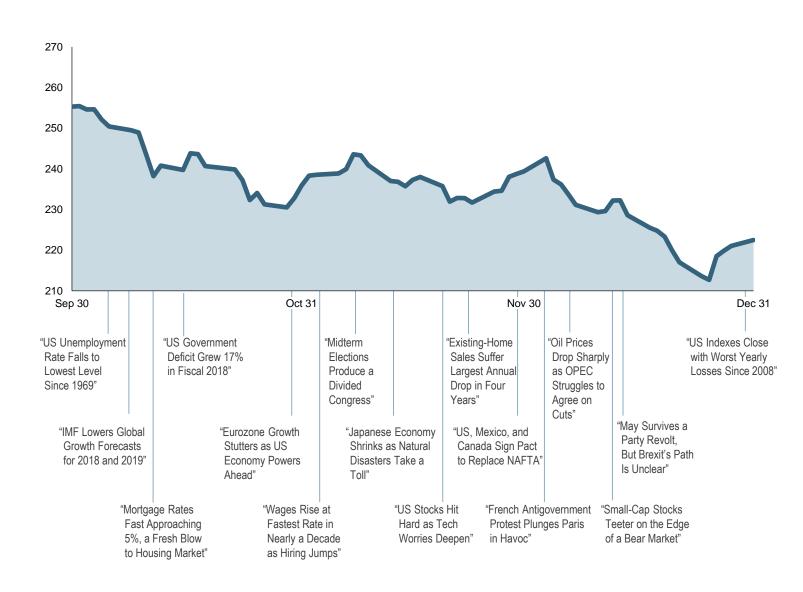


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World Stock Market Performance

MSCI All Country World Index with selected headlines from Q4 2018



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.

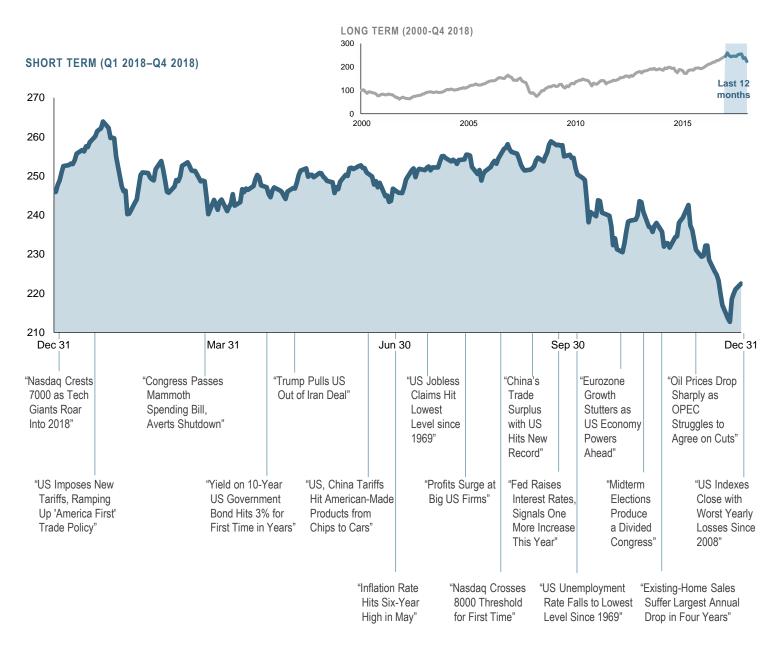
Graph Source: MSCI ACWI Index [net div.]. MSCI data © MSCI 2019, all rights reserved.

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.

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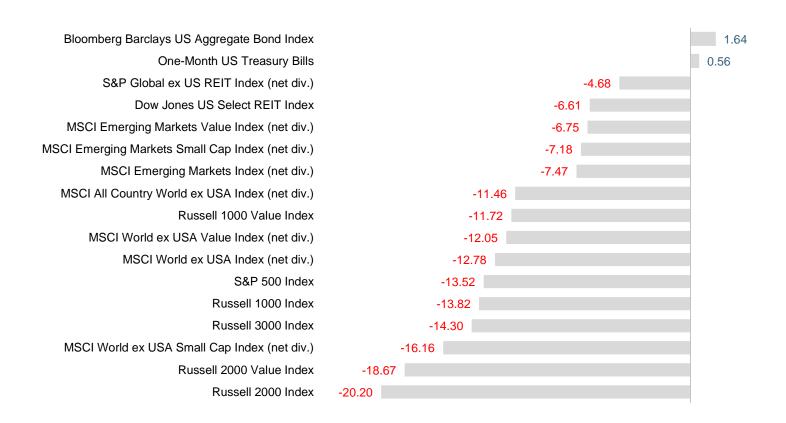
World Asset Classes

Fourth Quarter 2018 Index Returns (%)

Equity markets around the world posted negative returns for the quarter. Looking at broad market indices, emerging markets outperformed developed markets, including the US.

Value stocks were positive vs. growth stocks in all markets, including the US. Small caps underperformed large caps in the US and non-US developed markets but outperformed in emerging markets.

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



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US Stocks

Fourth Quarter 2018 Index Returns

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

Value outperformed growth in the US across large and small cap stocks.

Small caps underperformed large caps in the US.

Ranked Returns for the Quarter (%)



World Market Capitalization—US



Period Returns (%)

* Annualized

Asset Class	1 Year	3 Years*	5 Years*	10 Years*
Large Growth	-1.51	11.15	10.40	15.29
Large Cap	-4.78	9.09	8.21	13.28
Marketwide	-5.24	8.97	7.91	13.18
Large Value	-8.27	6.95	5.95	11.18
Small Growth	-9.31	7.24	5.13	13.52
Small Cap	-11.01	7.36	4.41	11.97
Small Value	-12.86	7.37	3.61	10.40

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* Annualized

International Developed Stocks

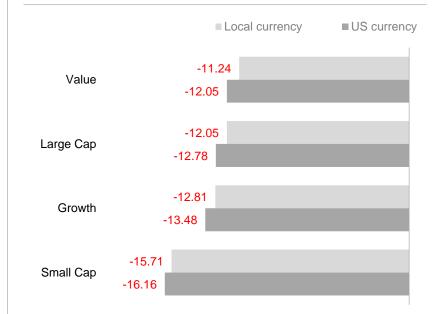
Fourth Quarter 2018 Index Returns

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

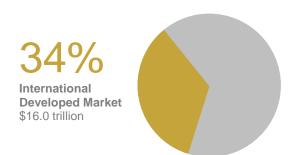
Value outperformed growth across large and small cap stocks.

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

Ranked Returns for the Quarter (%)



World Market Capitalization— International Developed



Period Returns (%)

()	-/			
Asset Class	1 Year	3 Years*	5 Years*	10 Years*
Growth	-13.14	2.84	1.36	6.74
Large Cap	-14.09	3.11	0.34	6.24
Value	-15.06	3.36	-0.73	5.69
Small Cap	-18.07	3.85	2.25	10.06

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Emerging Markets Stocks

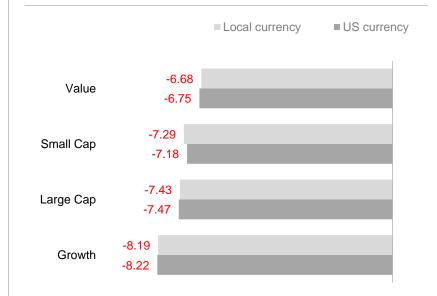
Fourth Quarter 2018 Index Returns

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

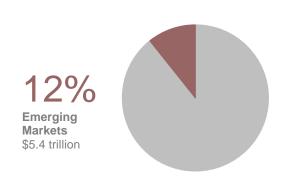
Value outperformed growth across large and small cap stocks.

Small caps outperformed large caps.

Ranked Returns for the Quarter (%)



World Market Capitalization— **Emerging Markets**



Period Returns (%)

Period R	Returns (%	* Annualized			
Asset	Class	1 Year	3 Years*	5 Years*	10 Years*
Value		-10.74	9.52	0.51	6.99
Large	Cap	-14.58	9.25	1.65	8.02
Growt	h	-18.26	8.89	2.67	8.97
Small	Сар	-18.59	3.68	0.95	9.87

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Select Country Performance

Fourth Quarter 2018 Index Returns

In US dollar terms, New Zealand and Hong Kong recorded the highest country performance in developed markets, while Austria and Norway posted the lowest returns for the quarter. In emerging markets, Brazil and Indonesia recorded the highest country performance, while Columbia and Pakistan posted the lowest performance.



Ranked Developed Markets Returns (%)

Ranked Emerging Markets Returns (%)



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Select Currency Performance vs. US Dollar

Fourth Quarter 2018

In developed markets, currencies mostly depreciated vs. the US dollar with a few exceptions, including the Japanese yen, which appreciated over 3.5%. In emerging markets, currencies were mixed against the US dollar, ranging from +12% to -10%.



Ranked Emerging Markets Returns (%)

Turkish lira (TRY)		12.92
Indian rupee (INR)		3.83
Indonesia rupiah (IDR)		3.63
Brazilian real (BRL)		3.04
Philippine peso (PHP)		2.75
Chinese yuan (CNY)		0.22
Malaysian ringgit (MYR)		0.15
Egyptian pound (EGP)		0.00
South Korean won (KRW)	-0.59	
Taiwanese NT dollar (TWD)	-0.66	
Thailand baht (THB)	-0.68	
Hungary forint (HUF)	-0.77	
Czech koruna (CZK)	-1.41	
South African rand (ZAR)	-1.62	
Poland zloty (PLN)	-1.88	
Peru sol (PEN)	-2.36	
Chilean peso (CLP)	-4.96	
Mexican peso (MXN)	-5.05	
Russian ruble (RUB)	-5.59	
Colombian peso (COP)	-8.56	
Pakistani rupee (PKR)	-10.53	

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Real Estate Investment Trusts (REITs)

Fourth Quarter 2018 Index Returns

Ranked Returns (%) Non-US real estate investment trusts outperformed US REITs in US dollar terms. Global REITS (ex US) -4.68 **US REITS** -6.61 **Total Value of REIT Stocks Period Returns (%)** * Annualized Asset Class 1 Year 3 Years* 5 Years* 10 Years* 42% US REITS -4.22 1.97 7.89 12.05 Global REITS 8.94 -7.42 3.35 3.39 World ex US \$436 billion 245 REITs (22 other countries) 58% US \$601 billion

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.

97 REITs



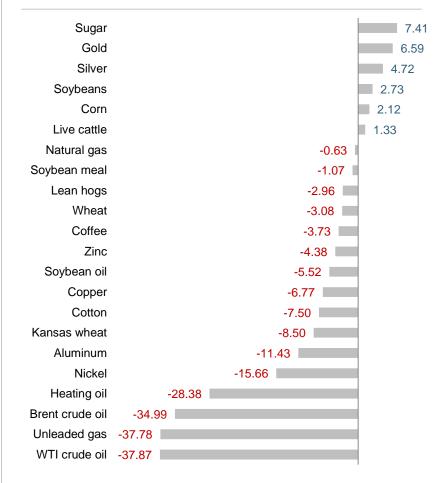
Commodities

Fourth Quarter 2018 Index Returns

The Bloomberg Commodity Index Total Return declined 9.41% during the fourth quarter of 2018, bringing the total annual return to -11.25%.

Sugar led quarterly performance with a gain of 7.41%. Energy was the worstperforming complex, with WTI crude oil and unleaded gas declining by 37.87% and 37.78%, respectively.

Ranked Returns for Individual Commodities (%)



Period Returns (%) * Annualized Asset Class QTR 1 Year 3 Years* 5 Years* 10 Years

AssetClass	QIR	1 Year	3 Years [*]	5 Years [*]	10 Years [*]	
Commodities	-9.41	-11.25	0.30	-8.80	-3.78	

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

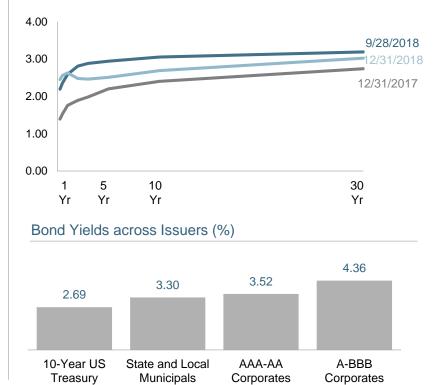
Fourth Quarter 2018 Index Returns

Interest rate changes across the US fixed income market were mixed during the fourth quarter of 2018. The yield on the 5year Treasury note declined 43 basis points (bps), ending the quarter at 2.51%. The yield on the 10-year Treasury note decreased 36 bps to 2.69%. The 30-year Treasury bond yield decreased 17 bps to finish at 3.02%. For 2018, yields on the 10year Treasury and 30-year Treasury increased 29 bps and 28 bps, respectively.

In terms of total returns, short-term corporate bonds increased 0.78% during the quarter. Intermediate-term corporate bonds had a total return of 0.58%.

Total returns for short-term municipal bonds were 1.10% for the quarter. Intermediate-term municipal bonds returned 2.00%.

US Treasury Yield Curve (%)



Period Returns (%)

Asset Class	QTR	1 Year	3 Years*	5 Years*	10 Years*
Bloomberg Barclays US Government Bond Index Long	4.16	-1.79	2.63	5.90	4.15
Bloomberg Barclays Municipal Bond Index	1.69	1.28	2.30	3.82	4.85
Bloomberg Barclays US Aggregate Bond Index	1.64	0.01	2.06	2.52	3.48
FTSE World Government Bond Index 1-5 Years (hedged to USD)	1.53	2.12	1.58	1.53	1.69
FTSE World Government Bond Index 1-5 Years	0.94	-0.76	1.56	-0.82	0.29
ICE BofAML 1-Year US Treasury Note Index	0.78	1.86	1.06	0.70	0.62
ICE BofAML US 3-Month Treasury Bill Index	0.56	1.87	1.02	0.63	0.37
Bloomberg Barclays US TIPS Index	-0.42	-1.26	2.11	1.69	3.64
Bloomberg Barclays US High Yield Corporate Bond Index	-4.53	-2.08	7.23	3.83	11.12

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 (SBBI) Yearbook™, Ibbotson Associates, Chicago (annually updated work by Roger G. Ibbotson and Rex A. Sinquefield). 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.

* Annualized



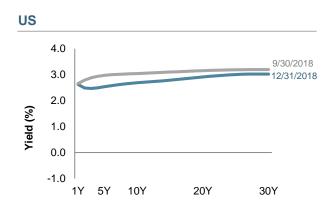
Global Fixed Income

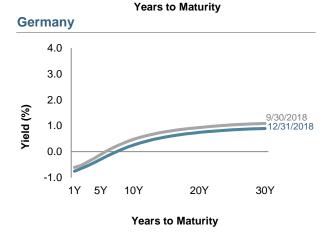
Fourth Quarter 2018 Yield Curves

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

Longer-term bonds generally outperformed shorterterm bonds in the global developed markets.

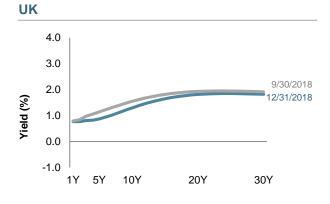
For the year, longer-term bonds underperformed shorter-term bonds in the US but generally outperformed shorter-term bonds in the non-US developed markets.

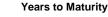


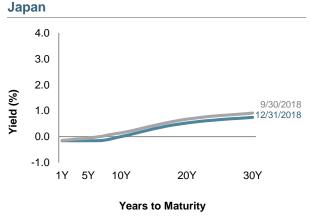


Changes in Yields (bps) since 9/30/2018

	1Y	5Y	10Y	20Y	30Y
US	-4.2	-44.0	-35.5	-24.4	-17.6
UK	-2.3	-26.9	-25.2	-11.6	-9.3
Germany	-15.2	-18.9	-21.8	-18.9	-19.6
Japan	-1.6	-9.3	-14.2	-14.6	-16.3







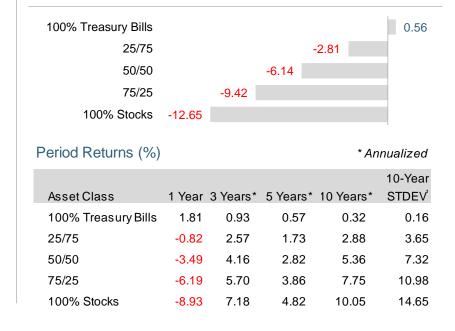


Impact of Diversification

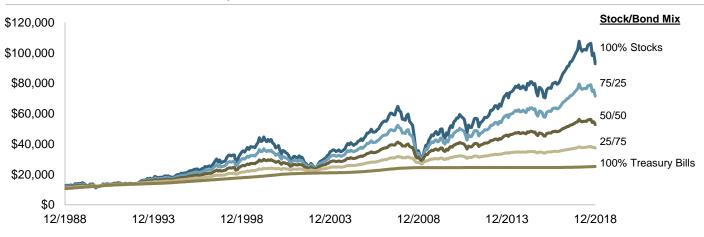
Fourth Quarter 2018 Index Returns

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 (%)



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. Sinquefield).