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Quarterly Market Review
Third Quarter 2015



# Quarterly Market Review

Third Quarter 2015



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 performance 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** 

Select Country Performance

Real Estate Investment Trusts (REITs)

Commodities

Fixed Income

Global Diversification

Quarterly Topic: Should Investors Sell

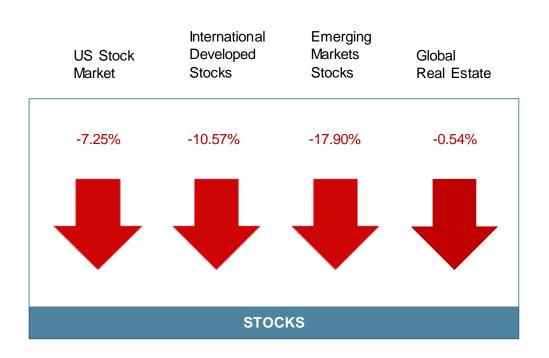
after a "Correction"?

# **Market Summary**

Third Quarter 2015 Index Returns



Global Bond

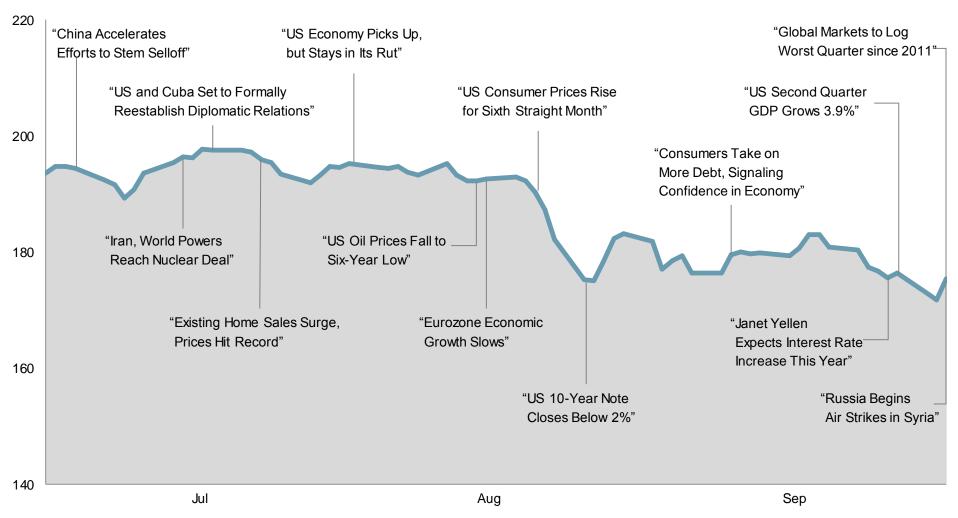






# World Stock Market Performance

MSCI All Country World Index with selected headlines from Q3 2015



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.

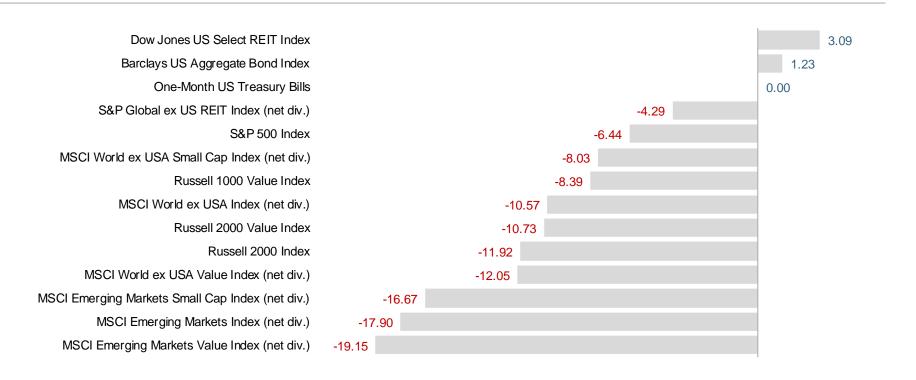
# World Asset Classes



# Third Quarter 2015 Index Returns

Looking at broad market indices, the US equity market outperformed both developed ex US and emerging markets during the third quarter. US REITs recorded the highest returns, outperforming equity markets.

The value effect was negative in the US, developed ex US, and emerging markets. Small caps outperformed large caps in the non-US and emerging markets but underperformed in the US. The US dollar appreciated against most currencies.



# **US Stocks**

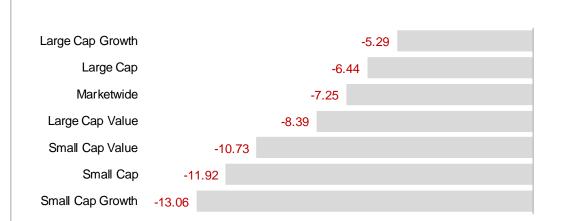
# Third Quarter 2015 Index Returns



The US equity market recorded negative performance for the third quarter.

Small caps underperformed large caps.

Value stocks underperformed growth stocks among marketwide indices. However, in small caps, the effect was reversed with small cap value outperforming small cap growth.



### World Market Capitalization—US



### Period Returns (%)

Ranked Returns for the Quarter (%)

\* Annualized

Asset Class	YTD	1 Year	3 Years*	5 Years*	10 Years*
Marketwide	-5.45	-0.05	12.53	13.28	6.92
Large Cap	-5.29	-0.61	12.40	13.34	6.80
Large Cap Value	-8.96	-4.42	11.59	12.29	5.71
Large Cap Growth	-1.54	3.17	13.61	14.47	8.09
Small Cap	-7.73	1.25	11.02	11.73	6.55
Small Cap Value	-10.06	-1.60	9.18	10.17	5.35
Small Cap Growth	-5.47	4.04	12.85	13.26	7.67

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 (S&P 500 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. Russell data © Russell Investment Group 1995–2015, all rights reserved. The S&P data are provided by Standard & Poor's Index Services Group.

# International Developed Stocks

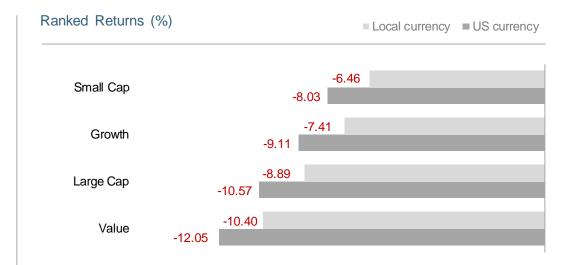


Third Quarter 2015 Index Returns

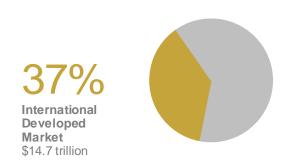
Developed markets outside the US underperformed the US equity market but outperformed emerging markets indices in US dollar terms.

Small caps outperformed large caps.

Value underperformed growth indices across all size ranges.



### World Market Capitalization—International Developed



# Period Returns (%)

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Asset Class	YTD	1 Year	3 Years*	5 Years*	10 Years*
Large Cap	-6.69	-10.14	4.60	3.42	2.92
Small Cap	-0.34	-3.71	7.48	5.74	4.23
Value	-9.65	-14.32	3.56	2.61	2.12
Growth	-3.75	-5.88	5.59	4.18	3.65

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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). 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 used as the proxy for the International Developed market. MSCI data © MSCI 2015, all rights reserved.



# **Emerging Markets Stocks**

Third Quarter 2015 Index Returns

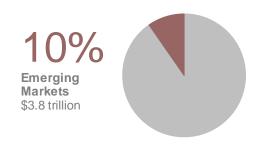
Emerging markets indices underperformed developed markets indices (including the US) in US dollar terms during the third quarter.

Small cap indices outperformed large cap indices.

Value underperformed growth indices across all size ranges.

# Ranked Returns (%) Small -11.74 -16.67 Growth -16.69 Large Cap -17.90 Value -13.47 -19.15

### World Market Capitalization—Emerging Markets



# Period Returns (%)

*	Annualized	
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Asset Class	YTD	1 Year	3 Years*	5 Years*	10 Years*
Large Cap	-15.48	-19.28	-5.27	-3.58	4.27
Small Cap	-9.80	-15.23	-1.09	-2.43	6.72
Value	-17.38	-22.70	-7.66	-5.09	4.12
Growth	-13.63	-15.89	-2.95	-2.12	4.35

# Select Country Performance





Ireland again recorded the highest country performance in developed markets and Singapore and Hong Kong the lowest for the third quarter. In emerging markets, Hungary and the Czech Republic posted the highest returns, while China's equity performance dominated news headlines as its market recorded one of the lowest country returns.

### Ranked Developed Markets Returns (%)

	1
Ireland	<b>-1.12</b> ■
Denmark	-1.86
Italy	-4.17
Israel	-5.43
France	-6.30
Finland	-6.36
Austria	-6.60
Switzerland	-6.97
Sweden	-7.12
US	-7.25
Belgium	-7.38
New Zealand	-7.46
Netherlands	-8.77
Portugal	-9.31
ŬK	-9.58
Germany	-9.97
Japan	-11.06
Spain	-11.24
Canada	-14.92
Australia	-14.98
Norway	-16.54
Hong Kong	-16.93
Singapore	-18.79
5gap 6 6	10.70

# Ranked Emerging Markets Returns (%)

Hungary	-3.10
Czech Republic	-5.51
India	-5.96
Qatar	-6.81
Poland	-9.62
UAE	-10.14
Philippines	-11.40
Mexico	-11.45
Korea	-11.90
Chile	-13.44
Russia	-14.83
Egypt	-15.28
Taiwan	-16.59
Thailand	-17.08
Malaysia	-18.01
South Africa	-18.45
Turkey	-19.95
Peru	-21.26
China	-23.28
Colombia	-23.76
Indonesia	-24.88
Greece	-26.20
Brazil	-33.66

# Real Estate Investment Trusts (REITs)



Third Quarter 2015 Index Returns

US REITs were one of the best-performing asset classes during the third quarter, outperforming equities. Although REITs outside the US produced negative absolute returns, global REITs outside the US outperformed broad market equity indices.



### Total Value of REIT Stocks



### Period Returns (%)

\* Annualized

Asset Class	YTD	1 Year	3 Years*	5 Years*	10 Years*
US REITs	-2.84	11.82	9.92	12.31	6.69
Global REITs (ex US)	-5.30	-2.47	4.53	6.64	3.11

# Commodities

# Third Quarter 2015 Index Returns



Commodities were broadly negative during the third quarter. The Bloomberg Commodity Index Total Return fell 14.47%. The energy complex led the decline with WTI crude oil dropping 27.39% and natural gas shedding 15.03%.

Grains also posted negative returns; Chicago wheat lost 17.54%, while soybeans dropped 14%.

Livestock was mixed with lean hogs up 13.42% and live cattle falling 14.59%.

### Period Returns (%)

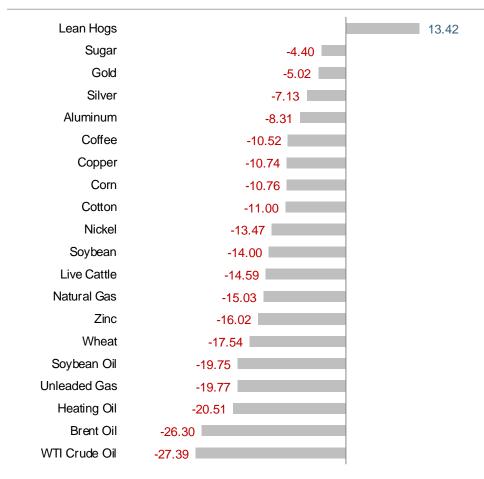
Asset Class

YTD Q3 1 Year 3 Years\* 5 Years\* 10 Years\*

\* Annualized

Commodities -15.80 -14.47 -25.99 -16.02 -8.89 -5.67

# Ranked Returns for Individual Commodities (%)



# Fixed Income

# Third Quarter 2015 Index Returns

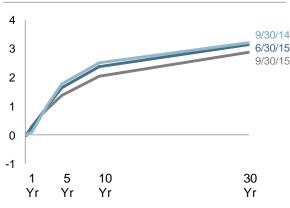


Interest rates across the US fixed income markets generally decreased during the third quarter. The yield on the 5-year Treasury note dropped 25 basis points to end the period at 1.38%. The yield on the 10-year Treasury note decreased 27 basis points to end the quarter at 2.06%. The 30-year Treasury bond fell 22 basis points to finish with a yield of 2.88%. Yields on the short end of the curve were relatively unchanged.

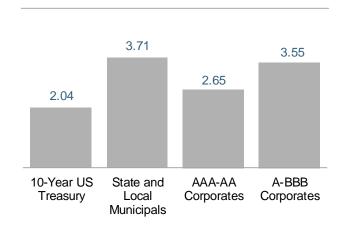
Short-term corporate bonds returned 0.30%, while intermediate-term corporate bonds returned 0.71%.

Short-term municipal bonds returned 0.74%, while intermediate-term municipal bonds returned 1.68%. Municipal general obligation and revenue bonds experienced similar returns.

# US Treasury Yield Curve



### Bond Yields across Issuers



# Period Returns (%)

\* Annualized

Asset Class	YTD	1 Year	3 Years*	5 Years*	10 Years*
BofA Merrill Lynch Three-Month US Treasury Bill Index	0.02	0.02	0.06	0.08	1.33
BofA Merrill Lynch 1-Year US Treasury Note Index	0.32	0.25	0.27	0.33	1.88
Citigroup WGBI 1-5 Years (hedged to USD)	1.09	1.57	1.34	1.50	2.97
Barclays Long US Government Bond Index	0.22	8.62	2.78	6.18	6.92
Barclays US Aggregate Bond Index	1.13	2.94	1.71	3.10	4.64
Barclays US Corporate High Yield Index	-2.45	-3.43	3.51	6.15	7.25
Barclays Municipal Bond Index	1.77	3.16	2.88	4.14	4.64
Barclays US TIPS Index	-0.80	-0.83	-1.83	2.55	4.02

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 Bond Buy er Index, general obligation, 20 years to maturity, mixed quality. AAA-AA Corporates represent the Bank of America Merrill Lynch US Corporates, AA-AAA rated. A-BBB Corporates represent the Bank of America Merrill Lynch US Corporates, BBB-A rated. Barclays data provided by Barclays Bank PLC. 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). Citigroup bond indices © 2014 by Citigroup. The BofA Merrill Lynch Indices are used with permission; © 2014 Merrill Lynch, Pierce, Fenner & Smith Incorporated; all rights reserved. Merrill Lynch, Pierce, Fenner & Smith Incorporated is a wholly owned subsidiary of Bank of America Corporation.

# Global Diversification

# Third Quarter 2015 Index Returns

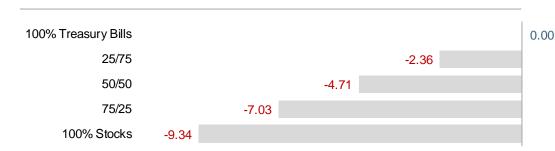


These portfolios illustrate the performance of different global stock/bond mixes and highlight the benefits of diversification. Mixes with larger allocations to stocks are considered riskier but have higher expected returns over time.

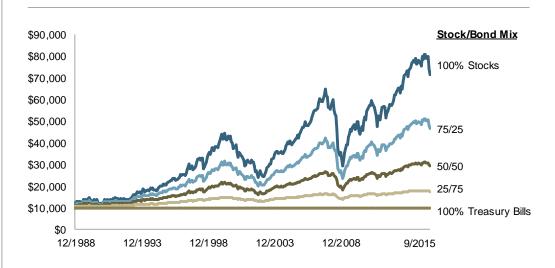
### Period Returns (%)

Asset Class	YTD	1 Year	3 Years*	5 Years*	10 Years*
100% Stocks	-6.65	-6.16	7.52	7.39	5.14
75/25	-4.93	-4.55	5.69	5.67	4.12
50/50	-3.24	-2.98	3.82	3.85	2.92
25/75	-1.60	-1.47	1.93	1.96	1.54
100% Treasury Bills	0.00	0.00	0.00	0.00	0.01

### Ranked Returns (%)



### Growth of Wealth: The Relationship between Risk and Return



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 2015, all rights reserved. Treasury bills © Stocks, Bonds, Bills, and Inflation Yearbook M, Ibbotson Associates, Chicago (annually updated work by Roger G. Ibbotson and Rex A. Singuefield).

\* Annualized

# **Should Investors Sell After a "Correction"?**



Third Quarter 2015

Stock prices in markets around the world fluctuated dramatically for the week ended August 27. On Monday, August 24, the Dow Jones Industrial Average fell 1,089 points—a larger loss than the "Flash Crash" in May 2010—before rallying to close down 588. Prices fell further on Tuesday before recovering sharply on Wednesday, Thursday, and Friday. Although the S&P 500 and Dow Jones Industrial Average rose 0.9% and 1.1%, respectively, for the week, many investors found the dramatic day-to-day fluctuations unsettling.

Based on closing prices, the S&P 500 Index declined 12.35% from its record high of 2130.82 on May 21 through August 24. Financial professionals generally describe any decline of 10% or more from a previous peak as a "correction," although it is unclear what investors should do with this information. Should they seek to protect themselves from further declines by selling, or should they consider it an opportunity to purchase stocks at more favorable prices?

Based on S&P 500 data, stock prices have declined 10% or more on 28 occasions between January 1926 and June 2015. Obviously, every

decline of 20% or 30% or 40% began with a decline of 10%. As a result, some investors believe that avoiding large losses can be accomplished easily by eliminating equity exposure entirely once the 10% threshold has been breached.

Market timing is a seductive strategy. If we could sell stocks prior to a substantial decline and hold cash instead, our long-run returns could be exponentially higher. But successful market timing is a two-step process: determining when to sell stocks and when to buy them back. Avoiding short-term losses runs the risk of avoiding even larger long-term gains. Regardless of whether stock prices have advanced 10% or declined 10% from a previous level, they always reflect (1) the collective assessment of the future by millions of market participants and (2) the expectation that equities in both the US and markets around the world have positive expected returns.

Our research shows that US stocks have typically delivered above-average returns over one, three, and five years following consecutive negative return days resulting in a 10% or more decline. Results from non-US markets are similar.

Contrary to the beliefs of some investors, dramatic changes in security prices are not a sign that the financial system is broken but rather what we would expect to see if markets are working properly.

The world is an uncertain place. The role of securities markets is to reflect new developments—both positive and negative—in security prices as quickly as possible. Investors who accept dramatic price fluctuations as a characteristic of liquid markets may have a distinct advantage over those who are easily frightened or confused by day-to-day events and may be more likely to achieve long-run investing success.

### References

"Wild Ride Leaves Investors Grasping," Wall Street Journal, August 25, 2015.

"Investors Scramble as Stocks Swing," Wall Street Journal, August 25, 2015.

Adapted from "Should Investors Sell After a Correction?" by Weston Wellington, Down to the Wire column, September 2015. Dimensional Fund Advisors LP ("Dimensional") is an investment advisor registered with the Securities and Exchange Commission. Diversification does not eliminate the risk of market loss. There is no guarantee investment strategies will be successful. Past performance is no guarantee of future results. All expressions of opinion are subject to change without notice in reaction to shifting market conditions. This content is provided for informational purposes, and it is not to be construed as an offer, solicitation, recommendation, or endorsement of any particular security, products, or services.