

The Nationwide Retirement Institute

Nationwide Market Insightssm

Our perspective on the market and economic forces influencing investment planning and retirement.

4th Quarter 2015

Data as of September 30, 2015



The Nationwide Retirement Institute provides practical thought leadership and comprehensive solutions to financial advisors and their clients. Through education and insights, client-ready tools and strategies and consultative support, we break down and simplify complex retirement challenges to help advisors and clients plan for a more secure financial future.

Introducing Nationwide Market InsightsSM

One of those challenges comes in understanding the market forces that affect investment performance and influence investment decisions. With *Nationwide Market Insights*, we present insights and informative commentary about the economy and the financial markets from Nationwide's staff of economists and analysts. You can share *Nationwide Market Insights* with clients to help answer questions about investment performance and inspire greater confidence in the guidance you provide.

When you work with Nationwide, you not only get tools and resources from The Retirement Institute, but also the strength and stability of a Fortune 100 company standing behind the wide range of financial products we offer—from mutual funds and annuities to life insurance and retirement plans.

Plus, you can count on consultative support from the Nationwide Team of Specialists for assistance with the retirement planning challenges you and your clients face. Contact your wholesaler to learn more about *Nationwide Market Insights* and other resources available from The Nationwide Retirement Institute or the many solutions Nationwide offers.

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Executive Summary

Volatility picked up in the third quarter, as Chinese equities continued to retrench and commodity prices remained under pressure. At the same time, the underlying economic fundamentals were improved on balance. The U.S. and European economies, in particular, both found firmer footing even as markets on both sides of the Atlantic tracked lower.

In broad terms, this cycle is playing out in a text-book-like manner. Aggressive monetary easing by the Federal Reserve helped to lift the economy into an expansion that has since been amplified by feedback loops working through the labor market. Job growth has boosted incomes and spending, which have in turn fed back into employment gains, creating a virtuous cycle that remains very much in place today. The quarters ahead should bring continued growth, further declines in unemployment, and healthy performance in financial markets even after interest rates slowly begin to lift.



Financial markets

Highlights

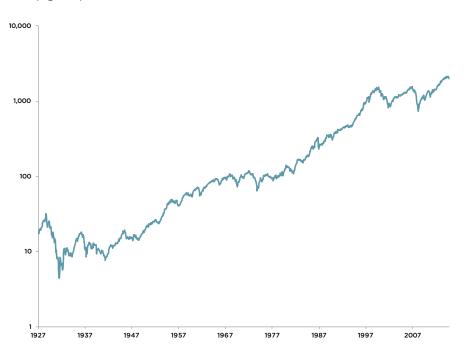
- 9 U.S. equities tend to bounce back strongly coming out of corrections, posting double-digit increases in the year after every such pullback in the history of the S&P 500
- Fixed income returns have historically remained positive even during periods in which the Federal Reserve was raising benchmark interest rates
- The dollar was back on the climb thanks to increasingly dovish signals from global central banks. Commodity prices were again lower



Stocks fall into correction territory

S&P 500

Index (log scale)



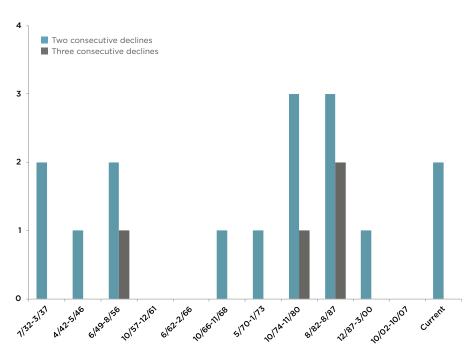
The S&P 500 fell for a second straight quarter, sealing the first 10% correction in the index in four years. Stocks were pressured over the last three months by further weakness in China and a renewed slide in commodity prices.



Losing streaks in this part of the cycle are rare

Occurrences of consecutive quarterly declines in the S&P 500 by bull market

Number

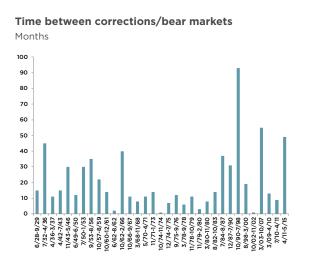


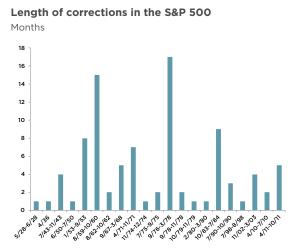
While it is not unusual for equities to fall in consecutive quarters as they did in Q2 and Q3, back-to-back-to-back drops are exceedingly rare. The S&P has fallen three times in a row in bull markets on only four occasions in its history.



Financial markets

Corrections occur regularly, but are usually short-lived





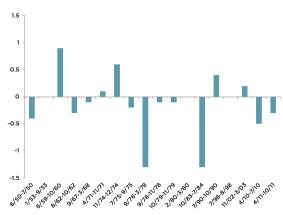
The S&P's fall into correction territory ended a relatively long stretch between declines of at least 10%. Across its history, the index has had a drop of this magnitude every 20 months on average and had on only two previous occasions gone as long as this most recent period without such a pullback.

Almost all corrections have ended quickly, with an average length of just over four months and only two instances exceeding one year.

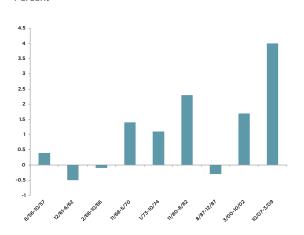
Corrections don't usually become bear markets when the economy is growing

Changes in the unemployment rate during corrections

Percent



Changes in the unemployment rate during bear markets Percent

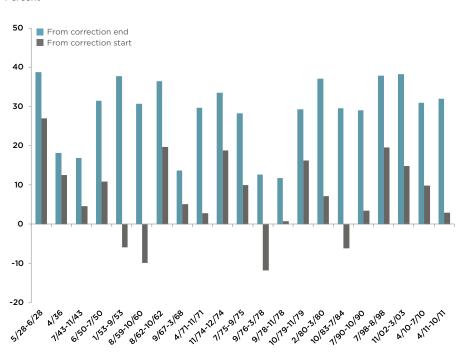


Corrections are normal features of economic expansions, but full blown bear markets — losses of 20% or more — typically only occur when the economy is contracting. While the unemployment rate has declined by an average of 0.1 percentage points during corrections, it has jumped by 1.1 percentage points on average during bear markets. With the economy growing and the jobless rate continuing to fall in recent months, the likelihood of a much bigger drop in equity prices is small.

Corrections are followed by strong gains

Changes in the S&P 500 in the year after corrections

Percent



The bounce back from corrections in U.S. stocks has been reliably robust, with the S&P 500 averaging an increase of 28.8% and never failing to grow at a double-digit pace over the following year.

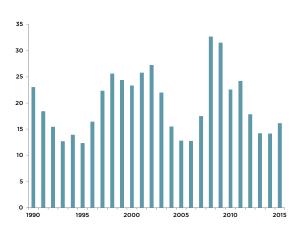
In fact, the S&P has also averaged a healthy gain in the year after the *beginning* of corrections, falling in only four out of 21 cases and averaging a rise of 7.3% even after incorporating the 10%+ decline.



Volatility has still been relatively muted for the year

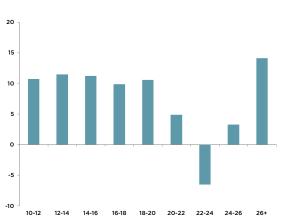
Average daily volatility index

Index



Annual changes in the S&P 500 by prior year level of the volatility index

Percent

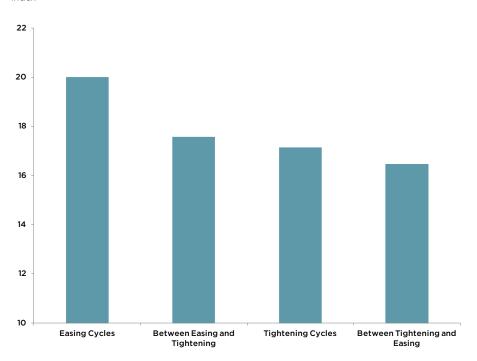


Volatility picked up in the third quarter, but has still been relatively subdued on average for the year. And while volatility has generally been a good reflection of the prevailing market environment, it has been a very poor leading indicator. There has been almost no correlation historically between volatility levels and returns over the subsequent year.

Fed tightening often means lower volatility

Average volatility index across the monetary policy cycle

Index



While there is some understandable concern among investors over the onset of Fed rate hikes, these periods have historically coincided with lower equity market volatility. This is largely due to the Fed's reluctance to raise rates during periods of high volatility as well as to the typically healthy economic backdrop that prevails when the Fed is tightening.

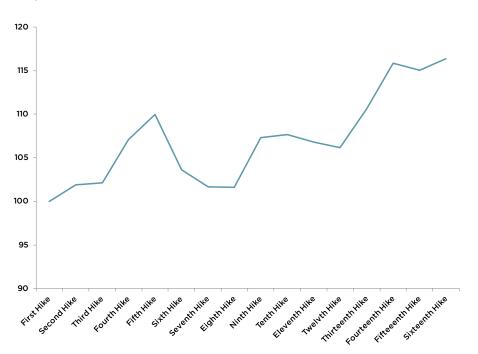
Source: Chicago Board Options Exchange



Stocks tend to rise with rates

Average trend in the S&P 500 during Federal Reserve tightening cycles

Index; First rate hike = 100



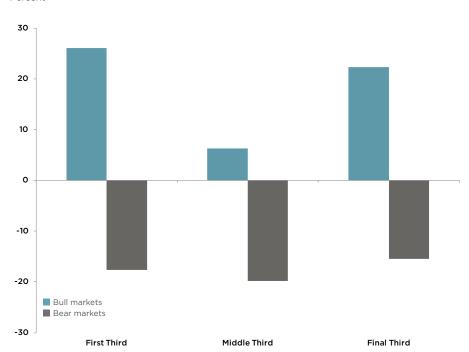
Federal Reserve rate hikes have almost always come against a backdrop of economic strength. Not surprisingly, stocks have tended to rise during these periods, reversing course only after monetary tightening has been well advanced and the economy itself has retrenched.



Bull markets are strongest in their early and latter stages

Average annualized changes in the S&P 500 by stage of market cycle

Percent

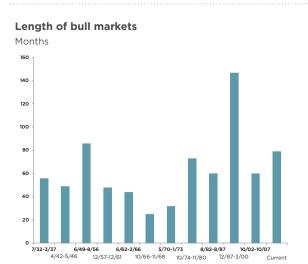


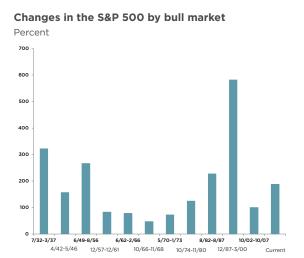
Across its history, the S&P 500 has tended to rally strongly in the latter stages of bull markets after hitting a lull in the middle of these cycles. The index has advanced at a double-digit annualized pace in the final third stage in nine out of the last 11 bull markets. In ten of these cycles, the middle third was the weakest period.

This is driven by the fact that stocks tend to spring back in the initial periods coming out of bear markets and then move up robustly again as the economic cycle matures, earnings growth jumps, and sentiment moves to lofty levels.



The bull market still has plenty of room left to run





The bull market is now more than six years old and has already seen a gain exceeding 200% in the S&P 500. While these numbers place the current cycle right in line with the historical averages for both longevity and magnitude, history shows that these periods are far from uniform. The mid-60s cycle ran for just two years and saw an increase in the S&P of less than 50%, while the cycle that ended in early 2000 was more than a dozen years in the making and saw a near-septupling in the index.

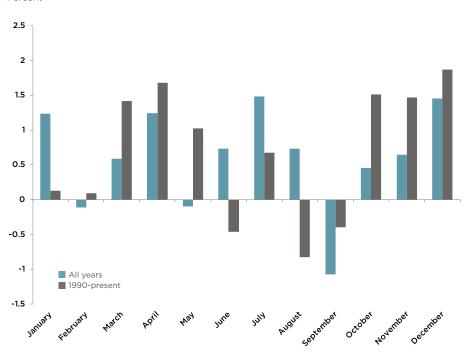
This is simply a reflection of the fact that bull markets die not of old age, but disease. This one will end as they all do, not after a certain amount of time is reached or a certain return is achieved, but rather only after the Fed tightens policy to the point of being restrictive and the economic outlook dims.



The market is moving into a seasonally strong period

Average monthly changes in the S&P 500

Percent



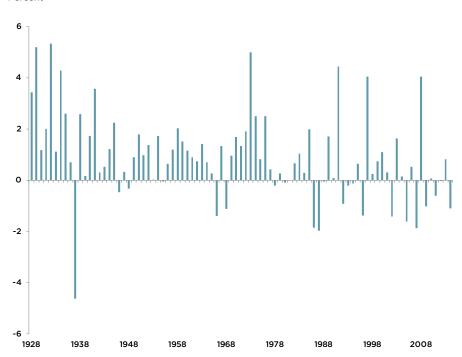
Stocks have tended to strengthen into the end of the year, especially over the last quarter-century. October, November, and December have been three of the four strongest months for the S&P since 1990.



More years without a Santa Claus rally

Changes in the S&P 500 between Christmas and the end of the year

Percent



The "Santa Claus rally," the tendency for stock prices to rise in the last week of the year due to portfolio window dressing, was one of the most reliable equity market indicators for decades. From 1928 to 1977, the S&P 500 rose 44 out of 50 times between Christmas and New Year's Day and averaged an increase of 1.3% — nearly ten times the gain in a typical week.

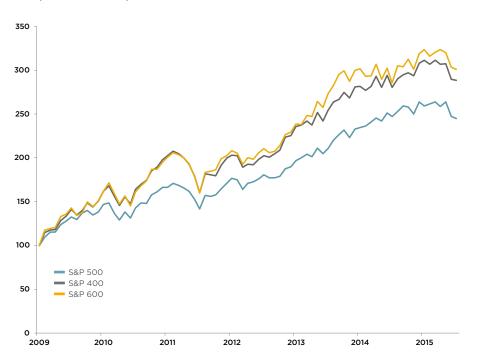
Since then, the win percentage in the last week of the year has slipped to 60% with an average gain of 0.3%. These are still relatively solid numbers, but they are not nearly as bankable as in decades past.



Small- and mid-cap stocks continue to lead the rally

The S&P 500, 400 and 600

Index (March 2009 = 100)



The small-cap S&P 600 and mid-cap S&P 400 both underperformed the large-cap S&P 500 in the third quarter, but both have still outperformed for the year.

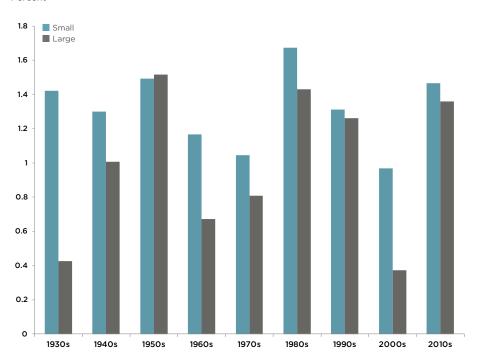
Last year marked only the second time since the turn of the century that the 500 outpaced both mid-caps and small-caps.



Smaller stocks have been stronger over the long run

Average monthly changes in small and large company stocks

Percent



Over long periods of time, small company stocks have consistently outpaced largecaps. The average monthly change in small stocks has exceeded that in large stocks in each of the last eight decades save the 1950s.

Small-caps are also more volatile — the standard deviation of monthly changes in smaller stocks has been higher than that of large-caps in every decade since the 1930s — but have over time compensated investors for the added risk.

Source: Kenneth French, Data as of September 2015



Most sectors now down for the year

Yearly changes in S&P sectors

Percent

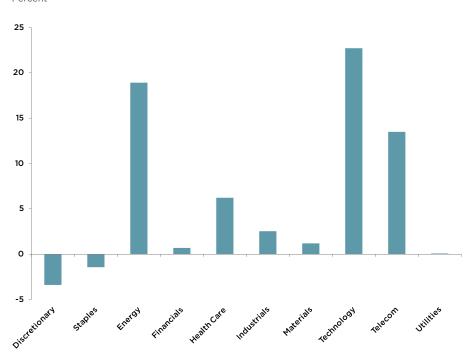
2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015 YTD
Energy	Energy	Telecoms	Energy	Staples	Technology	Discretionary		Financials	Discretionary		Discretionary
29%	29%	32%	32%	-18%	60%	26%		26%	41%	24%	3%
Utilities	Utilities	Energy	Materials	Health Care	Materials	Industrials	Staples	Discretionary	Health Care	Health Care	Staples
20%		22%	20%	-24%	45%	24%	11%	22%	39%	23%	-3%
Telecoms	Health Care	Discretionary	Utilities	Utilities	Discretionary	Materials	Health Care	Health Care	Industrials	Technology	Health Care
16%	5%	17%			39%	20%	10%	15%	38%	18%	
Industrials	Financials	Utilities	Technology	Telecoms	S&P 500	Energy	Discretionary	S&P 500	Financials	Financials	Technology
16%	4%	17%	16%	-34%	23%	18%	4%	13%	33%	13%	-4%
Discretionary	S&P 500	Financials	Staples	Discretionary	Industrials	S&P 500	Energy	Technology	S&P 500	Staples	S&P 500
12%	3%	16%	12%	-35%	17%	13%	3%	13%	30%	13%	-7%
Materials	Materials	Materials	Industrials	Energy	Health Care	Telecoms	Technology	Telecoms	Technology	S&P 500	Telecoms
11%	2%	16%	10%	-36%	17%	12%	1%	12%	26%	11%	-7%
S&P 500	Staples	S&P 500	Telecoms	S&P 500	Financials	Financials	Telecoms	Industrials	Materials	Discretionary	Financials
9%	1%	14%	8%	-38%	15%	11%	1%	12%	23%	8%	-8%
Financials	Technology	Staples	Health Care	Industrials	Energy	Staples	S&P 500	Materials	Staples	Industrials	Utilities
8%	0%	12%	5%	-42%	11%	11%	0%	12%	23%	8%	
Staples	Industrials	Industrials	S&P 500	Technology	Staples	Technology	Industrials	Staples	Energy	Materials	Industrials
6%	0%	11%	4%	-44%	11%	9%	-3%	8%	22%	5%	-11%
Technology	Discretionary	Technology	Discretionary	Materials	Utilities	Utilities	Materials	Energy	Utilities	Telecoms	Materials
2%	-7%	8%	-14%	-47%			-12%	2%		-2%	-18%
Health Care	Telecoms	Health Care	Financials	Financials	Telecoms	Health Care	Financials	Utilities	Telecoms	Energy	Energy
0%	-9%	6%	-21%	-57%	3%	1%	-18%	-3%	6%	-10%	-23%

Energy stocks continue to lag as energy prices remain under pressure. Health care, in contrast, continues to outperform, although it is now on track to fall for only the second time in the last 13 years.

Technology and energy have performed best during rate hike cycles

Average annualized changes in the S&P 500 sectors during Federal Reserve tightening cycles

Percent



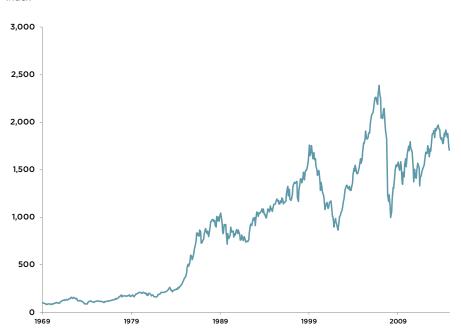
The market has been in an uptrend more often than not during Fed rate hike cycles and the biggest gains have historically come in technology, energy, and telecoms. Not coincidentally, these are three of the sectors that benefit most as economic expansions mature and broaden.



Global stocks retreat

MSCI EAFE Index

Index



The ongoing slump in China helped to pull global stocks to their worst quarter in three years.



Emerging markets have led the global benchmark lower

Yearly changes in benchmark equity indices

Percent

2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015 YTD
Brazil	Russia	China	China	UK	Russia	Russia	US	Germany	Japan	China	Russia
18%	83%	130%	97%	-31%	121%	23%	0%	29%	57%	53%	18%
Italy	India	Russia	India	Canada	Brazil	India	UK	India	US	India	Italy
	42%	68%	47%	-35%	83%	17%	-6%	26%	30%	30%	12%
India	Japan	India	Brazil	US	India	Germany	Canada	Japan	Germany	US	France
13%	40%	47%	44%	-38%	81%	16%	-11%	23%	25%	11%	4%
Canada	Brazil	Brazil	Germany	Germany	China	Canada	Germany	France	France	Canada	Japan
12%	28%	33%	22%	-40%	80%	14%	-15%	15%	18%	7%	0%
US	Germany	Germany	Russia	Brazil	Canada	US	Russia	US	Italy	Japan	Germany
9%	27%	22%	12%	-41%	31%	13%	-17%	13%	17%	7%	-1%
Japan	France	France	Canada	Japan	Germany		France	Italy	UK	Germany	India
8%	23%	18%	7%	-42%	24%		-17%			3%	-5%
UK	Canada	Italy	UK	France	US	Brazil	Japan	Brazil	Canada	Italy	China
8%	22%	16%	4%	-43%	23%	1%	-17%	7%	10%	0%	-6%
	UK	Canada	US	Italy	France	Japan	Brazil	UK	India	France	US
7%	17%	15%	4%	-50%	22%	-3%	-18%	6%	9%	-1%	-7%
Germany		US	France	India	UK	France	China	Russia	Russia	UK	UK
7%	16%	14%	1%	-52%	22%	-3%	-22%	5%	2%	-3%	-8%
Russia	US	UK	Italy	China	Italy	Italy	India	Canada	China	Brazil	Canada
7%	3%	11%	-7%	-65%	19%	-13%	-25%	4%	-7%	-3%	-9%
China	China	Japan	Japan	Russia	Japan	China	Italy	China	Brazil	Russia	Brazil
-15%	-8%	7%	-11%	-67%	19%	-14%	-25%	3%	-15%	-7%	-10%

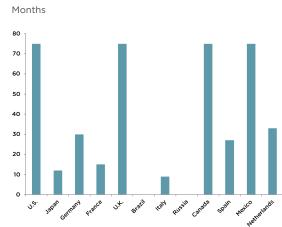
Chinese stocks continued to slide in the third quarter and are now lower for the year. In Europe, Italy is on pace to outperform Germany for the first time in more than a decade.

Global markets have room to catch up





Time since last recession



Global developed markets have lagged the U.S. badly in recent years, returning an annualized 4.0% over the last four years vs. a 14.1% pace for the S&P 500. This owes in large part to the fact that many economies fell into double-dip recessions in the first part of this decade and are now just in the early stages of renewed recoveries. As the nascent expansions in these countries gather steam, market performance should follow in kind.

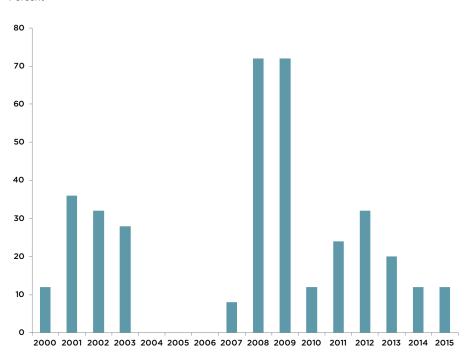
4th Quarter 2015

Nationwide

Most of the world is growing

Percentage of the world's largest 25 economies in recession

Percent



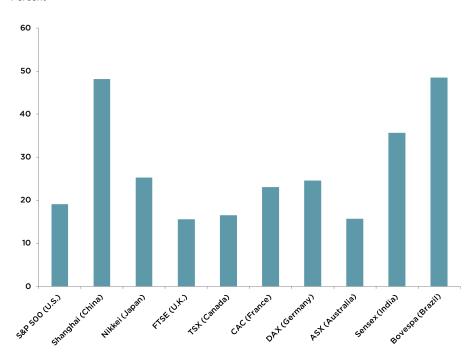
The global recovery continues to broaden. Among the world's largest economies, only Brazil, Russia, and Canada have been in recession this year and the latter is already beginning to show signs of recovery. Widespread monetary accommodation and a maturing U.S. expansion are slowly but surely lifting much of the rest of the world.



The Chinese market has long been volatile

Standard deviation of yearly changes in benchmark equity indices

Percent



It has been a topsy-turvy year in China's stock market, but this is nothing unusual. Over the past two decades, the Shanghai Composite has sported a yearly standard deviation approaching 50%. The index has turned in an absolute change of at least 50% in five out of the last nine years and has only once in the last quarter-century recorded back-to-back annual changes in the single digits.

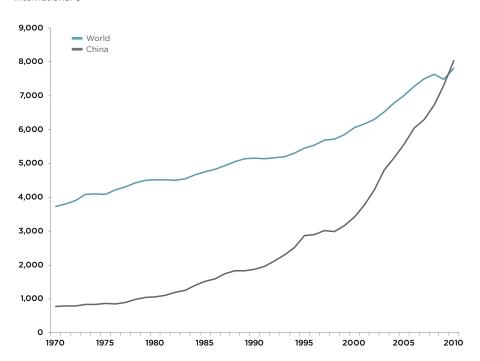
China is a rapidly emerging, rapidly transforming economy and this has long been reflected in its equity market.



China is still rapidly developing

Real per capita gross domestic product

International \$



China's rate of economic growth is slowing, but its economic development should continue apace.
Recent decades have seen the emergence of a middle class that should help to foster the transition to a services and consumption led economy.

Twenty years ago, China's per capita income was roughly equal to that of Yemen and El Salvador. Today, it is above the weighted global average.

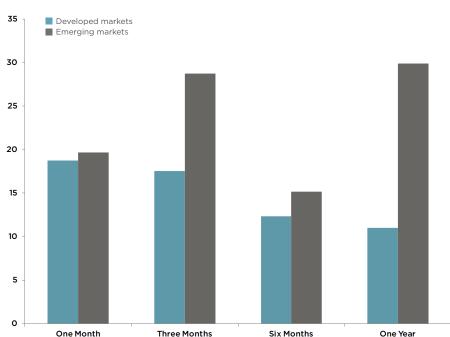
Source: Angus Maddison



Credit rating downgrades are lagging indicators

Median changes in benchmark equity market indices after S&P sovereign rating downgrades

Percent



Brazil's sovereign credit rating was cut to junk status by S&P in September due to political instability and a lack of progress on budget targets. Brazil has indeed been mismanaged and finds itself in the midst of a recession that appears unlikely to end anytime soon. However, ratings downgrades have historically been lagging indicators, especially in relation to the stock market.

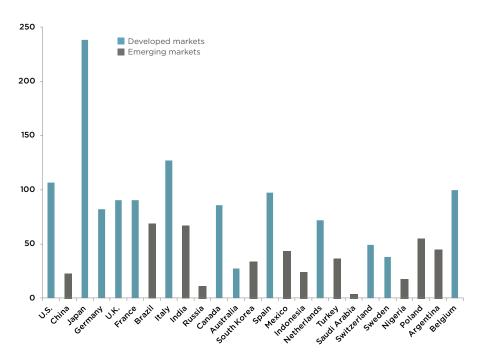
For emerging markets, benchmark equity indices have recorded median gains of nearly 30% in the year after these events. Brazilian stocks in particular have already been under pressure for some time, having fallen by more than a third since peaking in 2010.



Emerging markets still well positioned for long-term growth

Gross government debt as a percentage of gross domestic product

Percent



While emerging market stocks have fared poorly in recent quarters, the solid structural fundamentals in the underlying economies remain very much in place. Among the world's 25 largest economies, for example, the lowest debt burdens are concentrated almost entirely among the emerging markets. FM countries also have generally higher savings rates, lower old age dependency ratios, and faster projected labor force growth.

These factors have little influence over the quarter-to-quarter swings in the markets, but they suggest healthy long-term economic growth along with strong long-term equity relative performance.

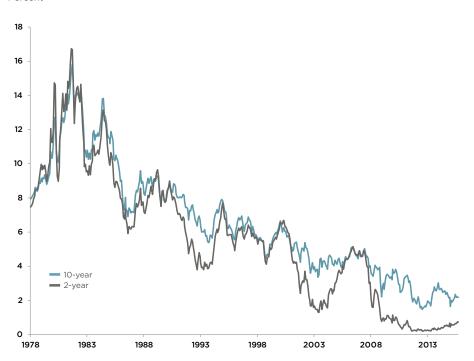
Source: International Monetary Fund



The yield curve is flattening as Fed tightening is drawing closer

Ten and two-year U.S. Treasury yields

Percent



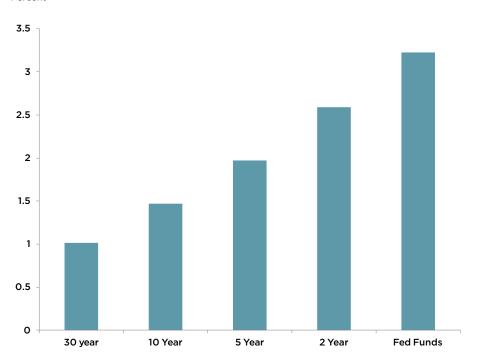
Two-year yields hit a fouryear high in September even as market forecasts for Fed rate hikes were pushed back. The curve does tend to begin flattening well in advance of monetary tightening, however, and this cycle looks to be no exception.



Rates should rise with the Fed in play

Changes in yield during Federal Reserve tightening cycles

Percent



Rates across the yield curve are largely a function of monetary policy. Yields generally begin rising after the Fed ends an easing cycle and typically continue to move higher as benchmark rates begin climbing. The curve flattens during these periods as well, with Fed policy exerting a bigger pull on short-term rates than on long-term rates.

On average, ten-year yields rise at half the pace of the federal funds target during monetary tightening cycles.



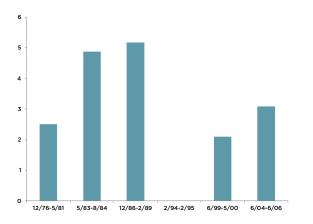
Fixed income returns have remained positive during rate hike cycles

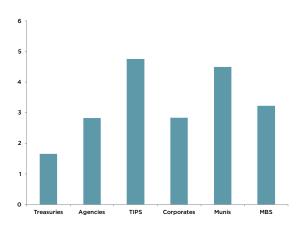
Annualized returns in the Barclays Aggregate Fixed Income Index during Federal Reserve tightening cycles

Percent



Percent





While fixed income investments tend to underperform when the Fed is raising rates, the coupon payments they earn - the income portion of fixed income - have meant that they generally haven't lost money during these periods. Low yields will pressure returns in the forthcoming Fed cycle, but even modest reinvestment of income should help a diversified basket of fixed income investments avoid substantial losses.

Yields were also relatively low at the outset of the 2004-06 tightening cycle — the fed funds target started that period at 1.0% — and all major fixed income asset classes still gained marginal ground across the cycle.

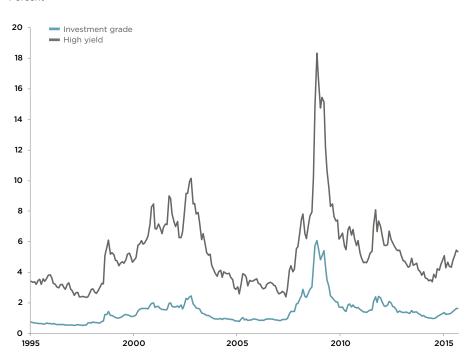
Source: Barclays



Spreads still have room to tighten

Investment grade and high yield option adjusted spreads

Percent



Credit spreads hit threeyear highs in the third quarter and remain somewhat wide for this stage of the business cycle. Investment grade corporate spreads, which ended Q3 at 1.7%, were below 1% for the better part of four years in the last cycle and for nearly seven years in the 1990s cycle.

High-yield spreads have followed a similar pattern. Most importantly, spreads do not begin rising in earnest until the economic cycle turns.

Source: Barclays



Most fixed income asset classes little changed in 2015

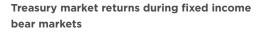
Yearly changes by asset class

Percent

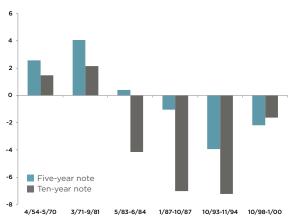
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015 YTD
Municipals		Barclays TIPS	Treasuries						Treasuries	
3.5%			20.1%	58.2%		17.2%	15.8%		10.7%	2.4%
High Yield	MBS	Treasuries	Agencies	Corporates	Corporates	Barclays TIPS	Corporates	Agencies	Municipals	Municipals
2.7%	5.2%	9.7%	9.3%	18.7%	9.0%	14.0%	9.8%	-1.4%	9.1%	1.8%
Barclays TIPS	Municipals	Agencies	MBS	Municipals	Treasuries	Municipals	Barclays TIPS	MBS	Corporates	Agencies
2.7%	4.8%	7.9%	8.3%	12.9%	8.0%	10.7%	7.3%	-1.4%	7.5%	1.7%
MBS	Agencies	Barclays Agg	Barclays Agg		Barclays Agg	Corporates	Municipals	Corporates	MBS	MBS
2.6%	4.4%	7.0%	5.2%	10.5%	6.5%	8.1%	6.8%	-1.5%	6.1%	1.6%
Barclays Agg	Barclays Agg	MBS	Barclays TIPS	Barclays Agg	Barclays TIPS	Barclays Agg				
2.4%	4.3%	6.9%		5.9%	6.3%	7.8%	4.2%	-2.0%	6.0%	1.1%
Agencies	Corporates	Corporates	Municipals	MBS	MBS	MBS	Treasuries	Municipals	Barclays TIPS	Corporates
2.3%	4.3%	4.6%	-2.5%	5.9%	5.4%	6.2%	4.1%	-2.6%	4.4%	0.0%
Treasuries	Treasuries	Municipals	Corporates	Agencies	Agencies	High Yield	MBS	Treasuries	Agencies	Barclays TIPS
2.1%	1.3%	3.4%	-4.9%	1.5%	4.4%		2.6%	-7.8%	3.6%	
Corporates		High Yield	High Yield	Treasuries	Municipals	Agencies	Agencies	Barclays TIPS	High Yield	
1.7%			-26.2%	-9.8%	2.4%	4.8%	2.2%	-9.3%		

Returns for spread products mostly languished in the first nine months of the year, with all major asset classes either slightly positive or slightly negative since the end of 2014.

Treasury losses tend to be limited in rising rate environments

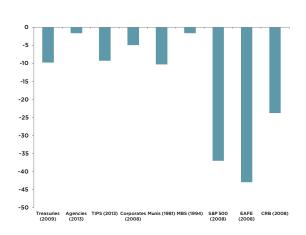


Percent



Worst annual return performance, 1980-present

Percent



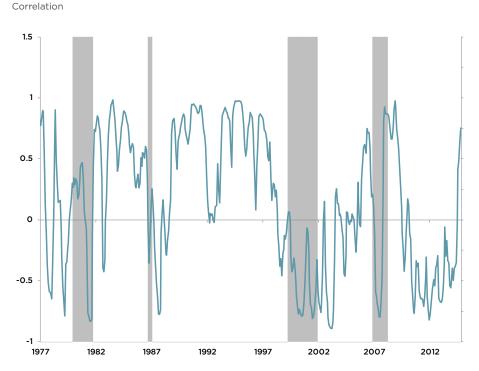
While Treasuries have often sold off in recent decades when long-term rates have been rising, these losses have generally been limited, even when the rate increases have been substantial. From 1971 to 1981, for example, the 10-year yield jumped from less than 6% to more than 15% and yet intermediate and long Treasuries still delivered modest but positive returns, thanks to their income components.

Shorter rising rate periods with fewer coupons to clip saw losses, but these were far from catastrophic. Again, it is the income component of fixed income that constrains the potential losses relative to other asset classes. Over the last three and a half decades, the declines in even the worst years for most fixed income asset classes have been limited to the single-digits.



Stocks and bonds are increasingly moving together

Rolling 12-month correlation between the Barclays Aggregate Index and the S&P 500



The correlation between stocks and bonds is on the rise, as is often the case during periods of healthy economic growth and a general uptrend in equity market performance. The diversification benefit of fixed income securities is evident in and around bear markets, however, when the correlation coefficient between the two asset classes tends to turn sharply negative.

Barclay's aggregate fixed income index has returned an average of more than 10% annualized across the last four equity bear markets.

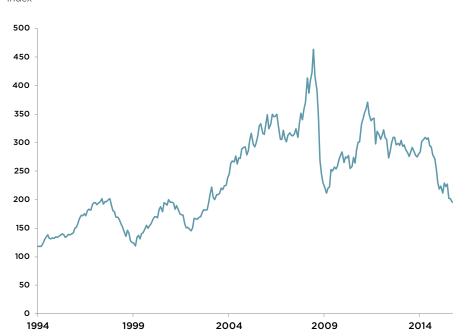
Source: Bloomberg; Shaded areas represent bear markets



Commodity price decline resumes

The CRB Commodity Index

Index



Commodities fell for the fourth time in five quarters, as a brief rally in crude oil prices stalled.

Source: Commodity Research Bureau



Financial markets

Commodity prices remain broadly on the decline for the year

Yearly changes in commodity index prices

Percent

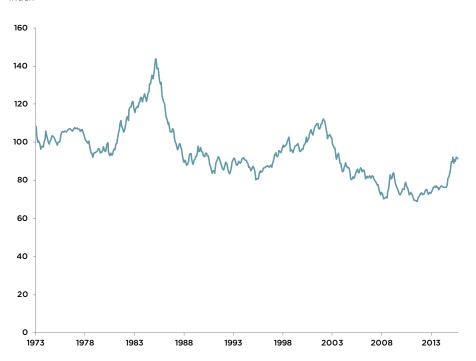
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015 YTD
Industrials	Industrials		Precious Metals	Industrials	Precious Metals	Precious Metals	Agriculture		Livestock	Precious Metals
36%	61%			82%			6%		14%	-5%
Energy	Precious Metals	Agriculture	Livestock	Precious Metals	Agriculture	Energy	Precious Metals	Livestock	Precious Metals	Agriculture
31%		28%	-27%		34%					-14%
Precious Metals	Agriculture	Precious Metals	Agriculture	Energy	Industrials	Livestock	Industrials	Industrials	Industrials	Livestock
19%	13%		-29%		17%	-1%		-13%	-7%	-15%
Livestock	Livestock	Industrials	Industrials	Agriculture	Livestock	Agriculture		Agriculture	Agriculture	Industrials
3%	-7%	-6%	-49%		10%	-16%		-18%	-11%	-21%
Agriculture	Energy	Livestock	Energy	Livestock		Industrials	Livestock	Precious Metals	Energy	Energy
2%	-27%	-9%	-52%	-14%	2%	-22%	-4%	-30%	-44%	-22%

Commodities have been under pressure across the board. Precious metals showed some signs of life as the Fed held rates unchanged, but remained down for the year.

The dollar is back on the climb

The trade-weighted major currencies U.S. dollar index

Index



Signs that a number of central banks may soon ease policy further sent the dollar higher again in the third quarter.

Source: Federal Reserve Board of Governors



The dollar is rising against all major currencies

Annual currency changes

Percent

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015 YTD
Dollar Index	British Pound	Canadian Dollar	Japanese Yen	Canadian Dollar	Japanese Yen	Japanese Yen	British Pound	Euro	Dollar Index	Dollar Index
12.8%	12.0%	14.4%	18.9%	13.6%	12.8%	5.2%	4.4%	4.0%	12.8%	6.6%
Canadian Dollar	Euro	Euro	Dollar Index	British Pound	Canadian Dollar	Dollar Index	Canadian Dollar	British Pound	British Pound	Japanese Yen
3.3%	10.2%	9.5%	6.0%	9.7%	5.2%	1.5%	2.9%	1.9%	-6.3%	-0.1%
British Pound	Canadian Dollar	Japanese Yen	Euro	Euro	Dollar Index	British Pound	Euro	Dollar Index	Canadian Dollar	British Pound
-11.3%	-0.3%	6.1%	-4.4%	2.5%	1.5%	-0.5%	1.7%	0.3%	-9.4%	-3.0%
Euro	Japanese Yen	British Pound	Canadian Dollar	Japanese Yen	British Pound	Canadian Dollar	Dollar Index	Canadian Dollar	Euro	Euro
-14.4%	-1.1%	1.3%	-22.1%	-2.6%	-3.6%	-2.3%	-0.5%	-7.1%	-13.6%	-8.3%
Japanese Yen	Dollar Index	Dollar Index	British Pound	Dollar Index	Euro	Euro	Japanese Yen	Japanese Yen	Japanese Yen	Canadian Dollar
-14.7%	-8.2%	-8.3%	-35.9%	-4.2%	-7.1%	-3.3%	-12.8%	-21.4%	-13.7%	-14.7%

The Canadian dollar has been especially soft this year, as the economy fell into its first recession in six years.

U.S. economy

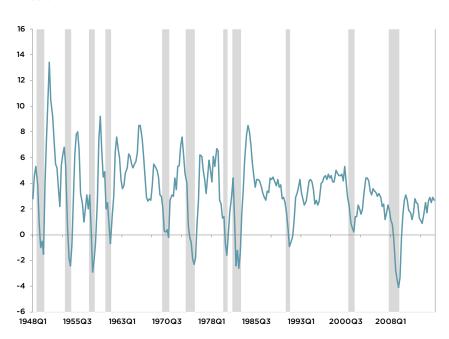
Highlights

- 44 In most cases, the lag between the start of a monetary tightening cycle and the end of an expansion has been extensive
- The labor market is tightening by any measure, even when the definition of the unemployed is broadened to include discouraged workers and those working part-time for economic reasons
- Inflation has been subdued, but it is a lagging indicator. The biggest jumps in the Consumer Price Index have come on average only after the economy has turned again to the downside

The expansion is slowly gaining traction

Yearly changes in real gross domestic product (GDP)

Percent



Real GDP jumped by 3.9% in the second quarter and has now risen by a solid 2.7% pace over the last two years.

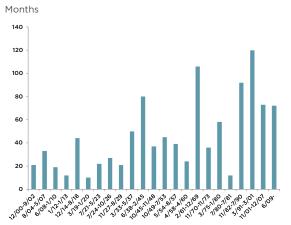
The pickup in growth is being led by consumer spending, which is accelerating as the labor market continues to tighten.

Source: Bureau of Economic Analysis; Note: Shaded areas depict recessionary periods.

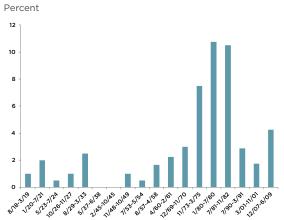


Recovery has a long way to run

Length of economic expansions



Changes in benchmark Fed interest rates ahead of recessions



The expansion has reached its sixth anniversary, but remains relatively young by recent standards. Each of the last three expansions lasted longer than six years and together averaged almost eight years in length. More to the point, these cycles ended as all modern cycles did — via tighter monetary policy from the Federal Reserve. With Fed officials hinting strongly that policy tightening will proceed slowly in the years ahead, the next recession continues to appear distant.

Consumer spending is starting to gather steam

Yearly changes in the real GDP components

Percent

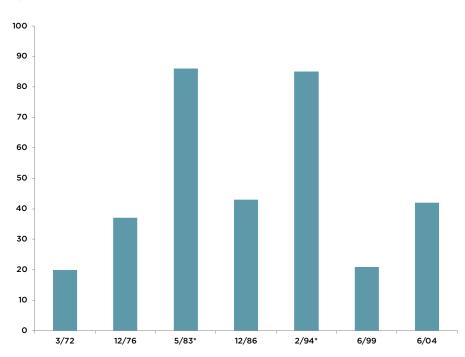
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015 YTD
Exports	Exports	Exports	Government	Government	Imports	Investment	Investment	Investment	Imports	Investment
6.5%	10.2%	9.9%	3.3%	2.3%	12.0%	9.6%	3.7%	7.5%	5.4%	6.8%
Imports	Imports	Government	Consumption	Exports	Investment	Exports	Exports	Exports	Investment	Imports
5.7%	4.5%	1.8%	-2.0%	0.8%	11.1%	4.2%	2.2%	5.2%	4.7%	5.1%
Investment	Consumption	Consumption	Exports	Consumption	Exports	Imports	Consumption	Imports	Consumption	Consumption
5.7%	3.3%	1.4%	-2.8%	-0.2%	10.1%	3.5%	1.3%	2.4%	3.2%	2.7%
Consumption	Government	Imports	Imports	Imports	Consumption	Consumption	Imports	Consumption	Exports	Government
3.0%	2.1%	0.8%	-6.0%	-6.2%	3.1%	1.5%	0.3%	2.3%	2.4%	1.3%
Government	Investment	Investment	Investment	Investment	Government	Government	Government	Government	Government	Exports
0.8%	-2.7%	-2.2%	-15.9%	-11.0%	-1.1%	-3.0%	-2.2%	-2.9%	0.4%	-0.6%

Both investment and exports were battered in the first quarter of this year, but both have otherwise been quite healthy throughout the recovery. Consumer spending is beginning to hit its stride, with gains exceeding 3.5% in four out of the last five quarters.

Rate hikes only start the process by which the cycle will end

Time between the start of Federal Reserve tightening cycles and the beginning of recessions

Months



It takes years on average between the start of a Fed rate hike cycle and the onset of recession. After the beginning of the last seven monetary tightening cycles, it took an average of nearly four years before the economy stopped growing. Even excluding the two episodes in which the Fed was able to raise rates without igniting a recession, the average was still nearly three years.

It takes time for rate hikes to work their way through the economy and become truly restrictive. That point in this cycle is still well into the future even if the Fed begins the process before the end of 2015.

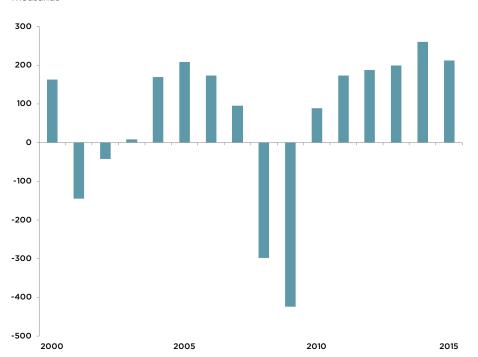
Source: Federal Reserve Board of Governors; Note: Asterisks represent soft landings.



Feedback loops are strengthening

Average monthly changes in nonfarm payroll employment

Thousands



The labor market continues to heal. Last year was the fifth in a row of accelerating job growth and marked the biggest increase in payrolls since 1999. Employment has continued to expand at a solid clip in 2015.

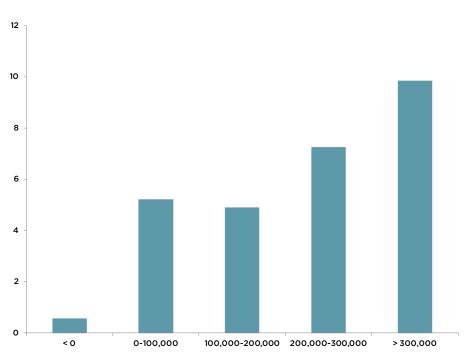
The pickup is further evidence of a strengthening feedback loop whereby employment gains lead to income, spending, and corporate profits, which in turn drive further job growth. This virtuous cycle bodes well for both the sustainability and strengthening of the recovery.



Labor market strength bodes well for holiday shopping

Average changes in holiday sales by average monthly change in nonfarm payroll employment

Percent



Another year of solid job growth points to another healthy gain in holiday sales. Holiday retail sales have averaged an increase of roughly 7% during years in which employment has averaged monthly gains of at least 200,000 vs. just 3.6% when average job growth has fallen short of 200,000.

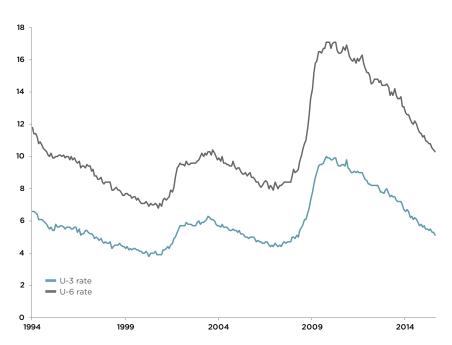
Source: Census Bureau



The labor market is tightening by any measure

The unemployment rate

Percent



While the Labor Department's official unemployment rate, also known as the U-3 rate, has fallen to close to 5%, other measures of joblessness remain elevated relative to the long-term trend. The broadest measure that the government produces, the U-6 rate, which includes discouraged workers and those working parttime for economic reasons, still sits in the double-digits, for example.

This figure, though, has also come down substantially in recent years as the economic and labor market recoveries have continued apace. In fact, while full-time employment has soared by 10 million in the last five years, the number working part-time for economic reasons has retreated by more than two million. The rising tide of growth is lifting most boats.



Nearly all major industries are adding workers

Yearly changes in employment growth by major groups

Percent

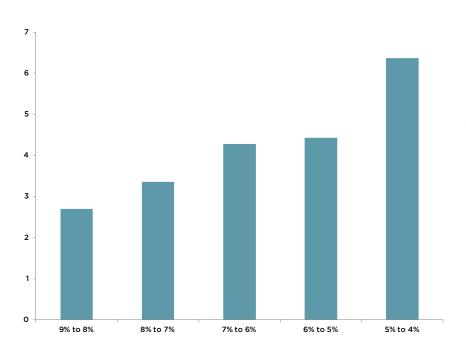
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015 YTD
Construction	Hospitality	Education	Education	Education	Transportation	Services	Services	Construction	Construction	Education
5.8%	3.0%	2.9%	2.7%	1.8%	3.5%	3.4%	3.3%	3.7%	5.7%	2.0%
Services	Services	Hospitality	Government	Government	Services	Hospitality	Hospitality	Hospitality	Services	Services
4.0%	3.0%	1.9%	0.8%	-0.3%	3.3%	2.9%	3.2%	3.5%	3.8%	2.0%
Education	Transportation	Services	Hospitality	Hospitality	Education	Construction	Transportation	Services	Transportation	Construction
2.6%	2.8%	1.6%	-2.2%	-2.4%	1.7%	2.7%	3.0%	3.1%	3.6%	1.8%
Transportation	Education	Government	Financial	Retail	Hospitality	Transportation	Education	Retail	Hospitality	Hospitality
2.4%	2.7%	1.3%	-2.6%	-3.7%	1.6%	2.2%	2.4%	2.5%	3.3%	1.6%
Hospitality	Construction	Retail	Transportation	Financial	Manufacturing	Retail	Construction	Information	Education	Financial
2.2%	2.0%	1.1%	-3.4%	-4.1%	1.0%	1.9%	2.0%	1.9%	2.3%	1.5%
Financial	Financial	Transportation	Information	Services	Retail	Education	Manufacturing	Transportation	Manufacturing	Retail
1.9%	1.3%	0.4%	-3.8%	-4.3%	1.0%	1.8%	1.4%	1.9%	1.8%	1.4%
Retail	Government	Information	Retail	Information	Financial	Manufacturing	Financial	Education	Financial	Transportation
1.5%	1.0%	-0.3%	-4.5%	-5.7%	-0.8%	1.8%	1.2%	1.5%	1.7%	1.2%
Government	Retail	Financial	Services	Transportation	Government	Financial	Retail	Financial	Information	Information
0.9%	0.3%	-1.3%	-4.6%	-6.3%	-1.0%	0.6%	1.1%	1.1%	1.6%	0.7%
Manufacturing	Information	Manufacturing	Manufacturing	Manufacturing	Information	Information	Government	Manufacturing	Retail	Government
-0.7%	-0.7%	-1.9%	-6.5%	-10.7%	-2.3%	0.0%	-0.3%	1.0%	1.5%	0.4%
Information	Manufacturing	Construction	Construction	Construction	Construction	Government	Information	Government	Government	Manufacturing
-0.8%	-1.3%	-2.5%	-10.5%	-15.6%	-3.3%	-1.4%	-0.3%	-0.3%	0.3%	0.2%

Jobs continue to be added across every major sector of the economy. The widespread nature of payroll gains is another reason to expect that the healing process in the labor market will continue.

Income growth is poised to accelerate

Average annualized changes in real disposable income by change in the unemployment rate

Percent



Income growth has been fairly stagnant throughout this cycle, even as the recovery has matured and the unemployment rate has declined. The jobless rate is, however, approaching the level at which income gains have accelerated significantly.

As the labor market continues to tighten, it is to be expected that faster wage growth will lead real income levels higher.

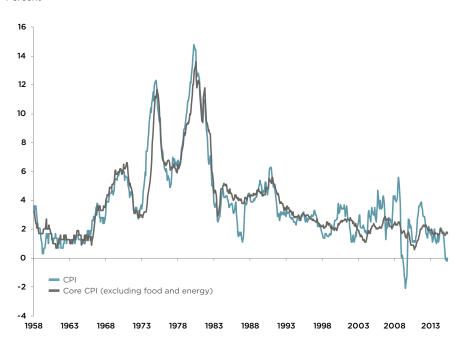
Source: Bureau of Economic Analysis



Inflation remains subdued

Yearly changes in the consumer price index (CPI)

Percent



The Consumer Price Index (CPI) inflation rate has spent the bulk of 2015 near zero thanks to falling energy prices while core inflation pressures have continued to build only slowly.

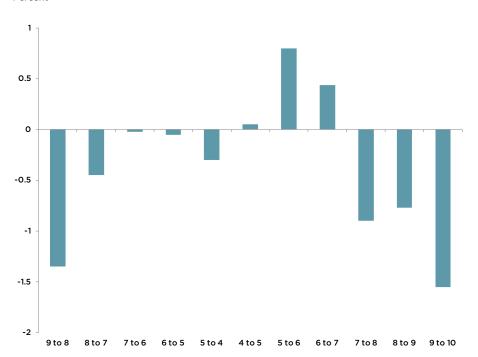
The core inflation rate has held in a narrow range between 1.5% and 2.0% for more than three years now.



Inflation is a lagging indicator

Change in the core Consumer Price Index inflation rate by change in the unemployment rate

Percent



Inflation is a function of economic growth, but it is also a lagging indicator. In fact, it has historically only started to pick up on average after the cycle has turned and the unemployment rate has started to climb.

There have been cycles in which inflation started to rise while the economy has still been growing, but they have been the exception rather than the norm. The current expansion, still marked by subdued price pressures six years after the recessionary trough, is thus far falling in line with the long-term trend.



Western states continue to top the job growth table

Changes in nonfarm payrolls

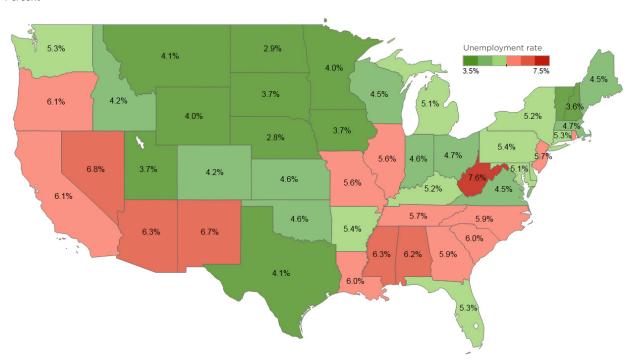
Percent

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015 YTD
Nevada	Wyoming	Wyoming	North Dakota	North Dakota	North Dakota	North Dakota	North Dakota	North Dakota	North Dakota	Nevada
5.7%	5.3%	3.7%	1.7%	0.1%	4.4%	7.3%	5.8%	3.2%	4.3%	2.7%
Arizona	Utah	Texas	Alaska	Alaska	Alaska	Utah	Utah	Utah	Florida	Hawaii
5.3%	4.8%		1.5%	-1.1%	2.8%	2.7%	3.6%	3.1%	3.6%	2.4%
Idaho	Louisiana	Utah	Wyoming	West Virginia		Michigan		California		Idaho
4.4%	4.8%	3.0%	1.0%	-2.2%		2.5%				2.4%
Utah		Louisiana	Oklahoma	South Dakota	South Carolina	Wyoming	California	Colorado	Georgia	Utah
4.4%		2.5%	0.6%	-2.4%	1.9%	2.4%	3.2%	3.0%		2.3%
Wyoming	Arizona	Washington	South Dakota	New York	Delaware	Texas	Colorado	Nevada	Utah	Washington
4.3%	3.6%	2.5%	0.6%	-2.5%	1.5%		2.7%	3.0%	3.5%	2.1%
Florida	Idaho	Colorado		Massachusetts	Michigan	Tennessee	Oklahoma	Florida	Nevada	California
3.6%	3.5%	2.0%		-2.5%	1.5%	2.2%	2.4%	2.9%	3.5%	2.0%
Texas	Texas	Montana	Louisiana	Maryland	Utah	Indiana	Hawaii	Texas	Oregon	Florida
3.2%		1.9%	0.3%	-2.5%	1.5%	2.2%	2.4%		3.3%	1.9%
Oklahoma	South Carolina	Nebraska	West Virginia	Vermont	Pennsylvania	West Virginia	Florida	Oregon	Colorado	Oregon
3.1%	3.2%	1.7%	-0.1%	-2.6%	1.5%	2.2%	2.3%	2.7%	3.3%	1.9%
Washington	Montana	North Dakota	Nebraska	Maine	Kentucky	Idaho	Washington	Washington	Washington	South Carolina
3.0%	2.9%	1.7%	-0.2%	-2.6%	1.5%	2.1%	2.3%	2.5%	3.1%	1.7%
Oregon	Nevada	Oklahoma	Kansas	N Hampshire	Tennessee	Colorado	Arizona	South Carolina	California	Massachusetts
3.0%	2.7%	1.7%	-0.2%	-2.6%	1.4%	2.1%	2.2%	2.4%		1.6%

Plains states still have the tightest labor markets

Unemployment rate by state

Percent





Contributors

The experience, intelligence and perspective of Nationwide's staff economists and market analysts assures advisors and clients of a relevant viewpoint that's easy to understand and apply to specific financial planning situations.



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NFM-13126AO.6 (10/15)

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