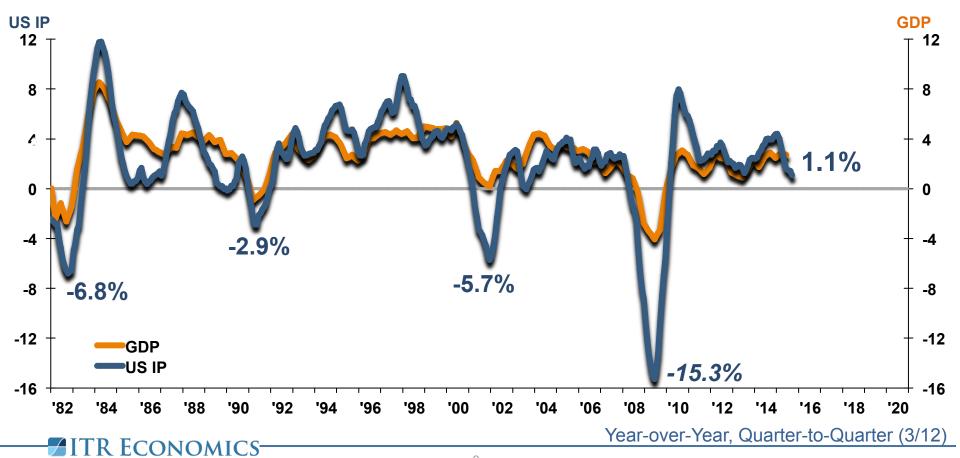


### **2014 Forecast Results**

	Duration	Forecast	Result	Accuracy
US GDP	15	\$16.098 Trillion	\$16.317 Trillion	98.7%
US Ind. Prod.	13	101.5 (12MMA)	104.1	97.4%
EU Ind. Prod.	14	100.6 (12MMA)	101.5	99.1%
Canada Ind Prod	9	350.1 (12MMA)	C\$357.1	98.0%
China Ind Prod	21	564.9 (12MMA)	563.6	99.8%
US Housing	12	955 Ths. Units	1.0 mils. Units	94.7%
US Retail Sales	16	\$2.751 Trillion	\$2.808 Trillion	98.0%
US Employment	13	144.9 Million	146.3 Million	99.0%

ITR Economics provides the best economic intelligence to reduce risk and drive practical and profitable business decisions.

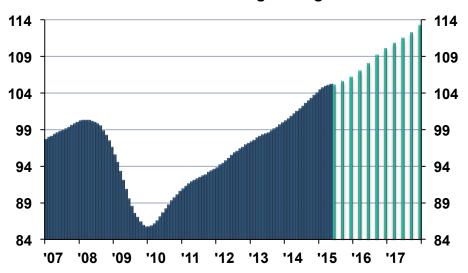
#### **US Industrial Production to Gross Domestic Product**



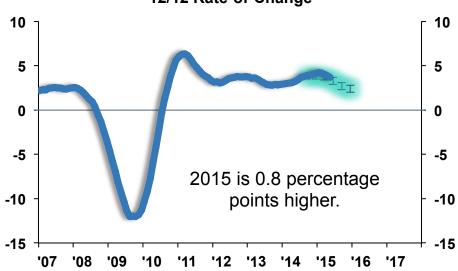
#### **US Industrial Production Index**

#### Pre Data Revision ...

#### US Industrial Production Index 12-Month Moving Average



## Year-over-Year Growth Rate 12/12 Rate-of-Change



Annual Trend: 105.2

Phase: C

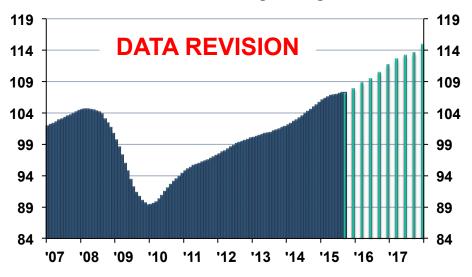
Year-over-Year: 3.7%

Industry 2015: 2.4%

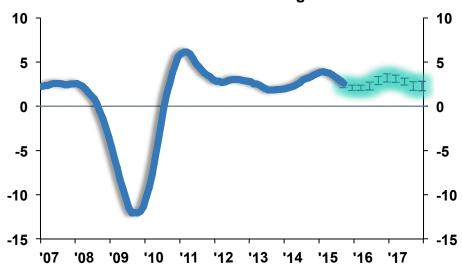
Outlook 2016: 3.7%

#### **US Industrial Production Index**

#### US Industrial Production Index 12-Month Moving Average



Year-over-Year Growth Rate 12/12 Rate-of-Change



Annual Trend: 107.3

Phase: C

Year-over-Year: 2.6%

Industry 2015: 2.1%

Outlook 2016: 3.2%

#### **Gross Domestic Product**

#### **US Gross Domestic Product** 12-Month Moving Average

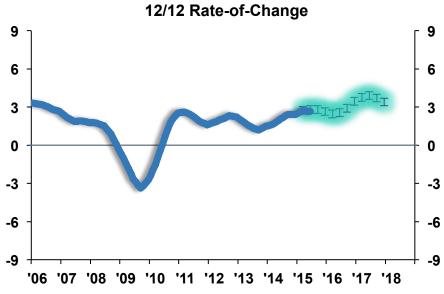


Annual Trend: \$16.2 trillion

Phase: C

Year-over-Year: 2.6%





Industry

2015: 2.7%

Outlook

2016: 3.5%

2017: 3.4%

#### **Data Preparation**

	<u>Raw</u>	<u>3MMT</u>	<u>3/12</u>	<u>12MMT</u>	12/12
Nov-13	1.4				
Dec-13	1.5				
Jan-14	1.5	4.4			
Feb-14	1.4	4.4			
Mar-14	1.5	4.4			
Apr-14	1.3	4.2			
May-14	1.3	4.1			
Jun-14	1.6	4.2			
Jul-14	1.6	4.5			
Aug-14	1.5	4.7			
Sep-14	1.7	4.8			
Oct-14	1.6	<del>- 4.0</del>		<b>→</b> 18.0	
Nov-14	1.7	5.0		18.2	
Dec-14	1.7	5.0		18.4	
Jan-15	1.7	5.1	15.9%	18.6	
Feb-15	1.6	5.0	13.6%	18.8	
Mar-15	1.7	5.0	13.6%	19.0	26.7%
Apr-15	1.5	4.8	14.3%	19.2	25.5%
May-15	1.5	4.7	14.6%	19.4	25.2%
Jun-15	1.9	4.9	16.7%	19.7	22.4%
Jul-15	1.7	5.1	13.3%	19.8	20.0%
Aug-15	1.7	5.3	12.8%	20.0	18.3%
Sep-15	1.9	5.3	10.4%	20.2	15.4%
Oct-15	1.7	5.0	10.1%	<b>→</b> 20.3	12.7%

#### 3/12 Rate-of-Change

= *October* 2015 3*MMT/October* 2014 3*MMT*×100-100

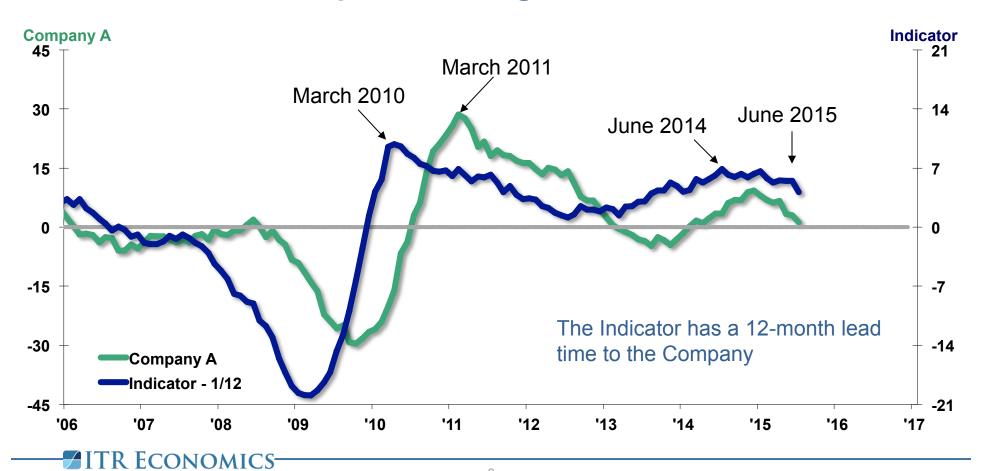
 $=5.3/4.8 \times 100 - 100 = 10.4\%$ 

#### 12/12 Rate-of-Change

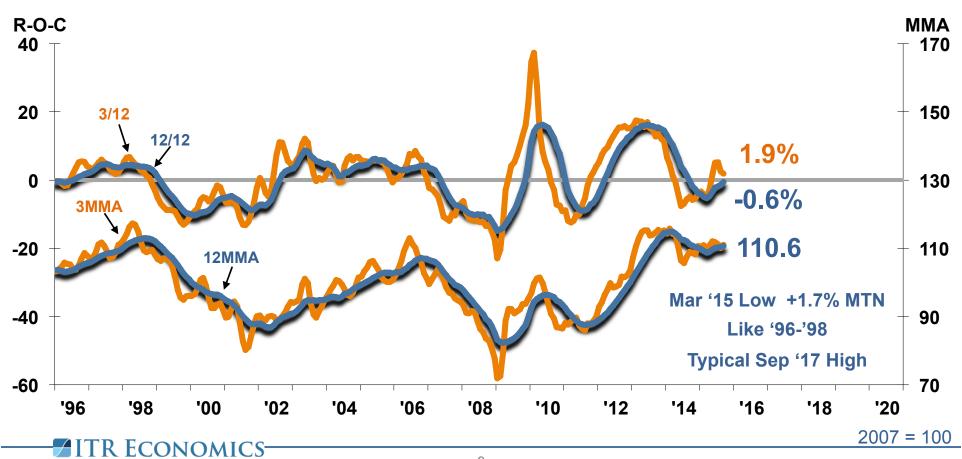
= *October* 2015 12*MMT/October* 2014 12*MMT*×100-100

 $=20.3/18.0 \times 100 - 100 = 12.7\%$ 

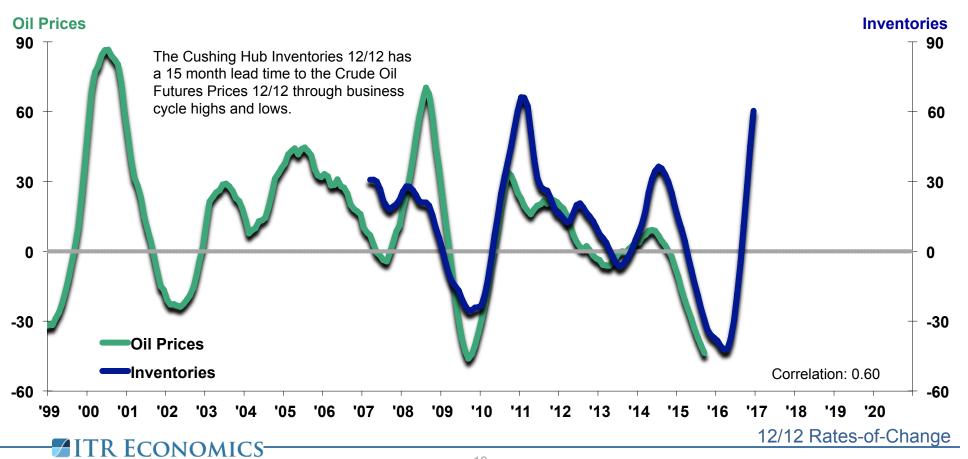
### **Step 2 - Leading Indicators**



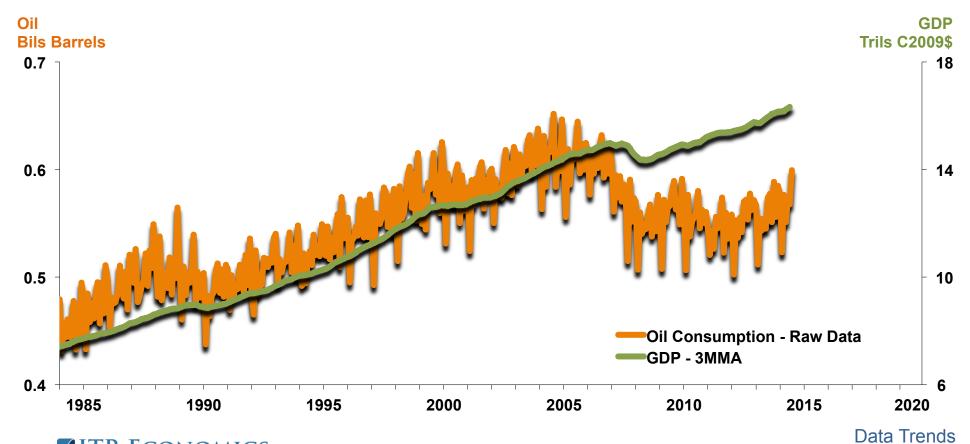
### **Agricultural Chemicals Production Index**



#### **Crude Oil Futures Prices to Cushing Hub Inventories**



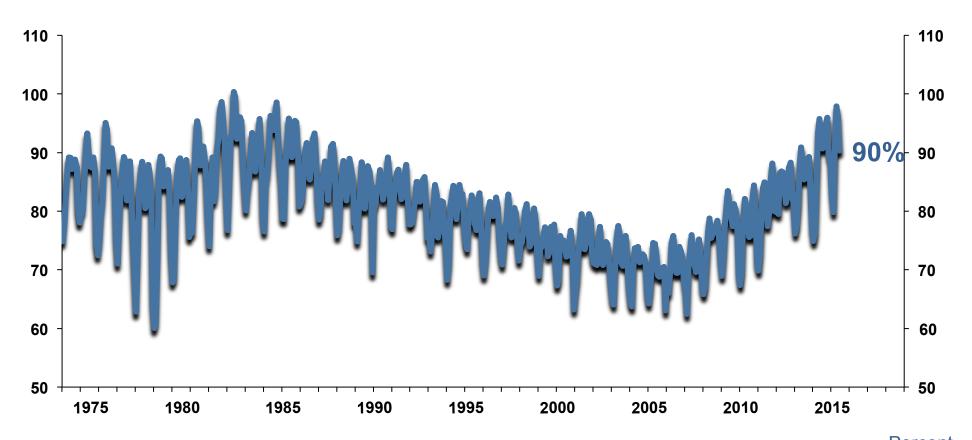
# US Consumption of Crude Oil & Petroleum Products to Real Gross Domestic Product



ITR ECONOMICS

Data Sources: EIA, BEA

## **Percent of Energy Consumed from Domestic Sources**



#### **Ongoing Concerns**

China: Debt, Devaluation, Doubtful growth

Fear of instability from low oil prices

Non-defense capital goods new orders

South America

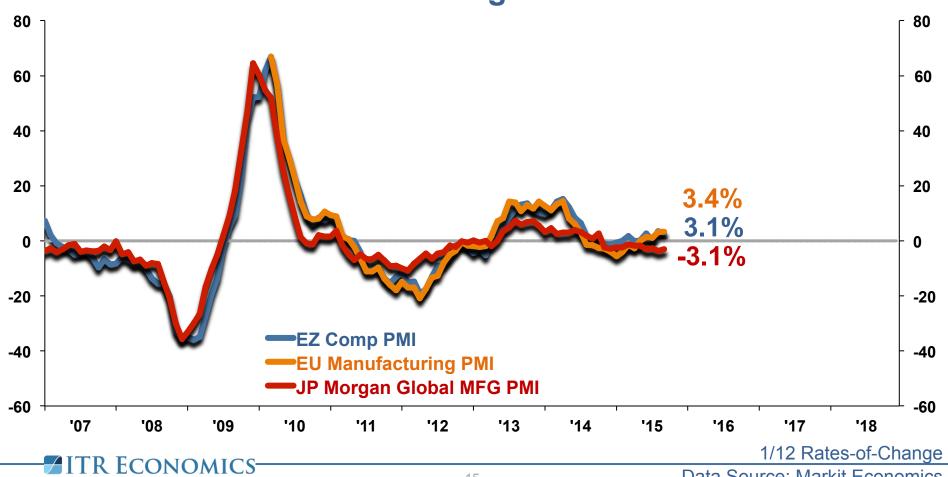
US Debt

World Demographics

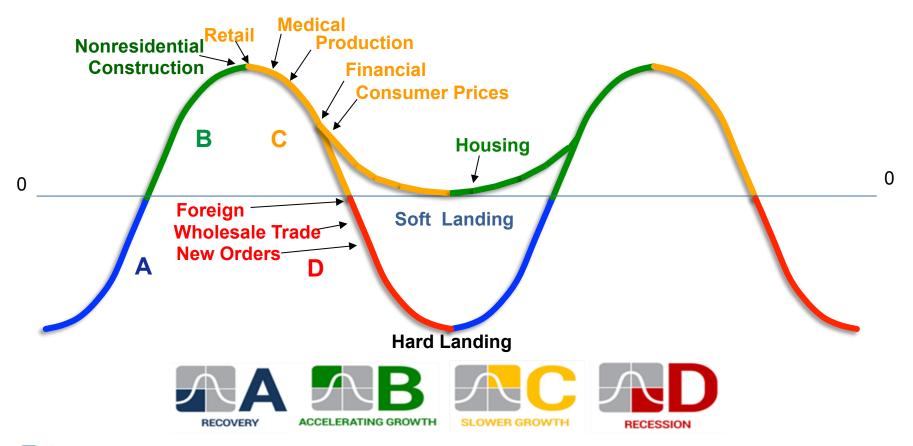
#### **World Countries Industrial Production**



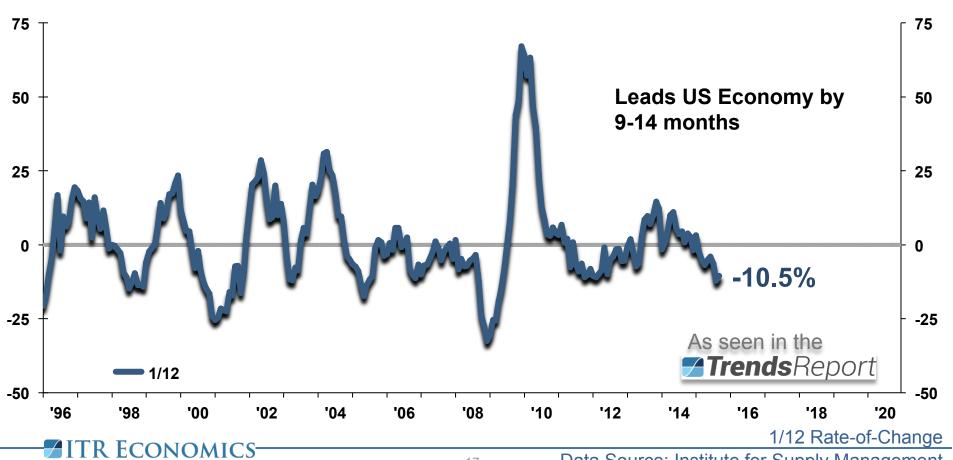
## **Global Leading Indicators**



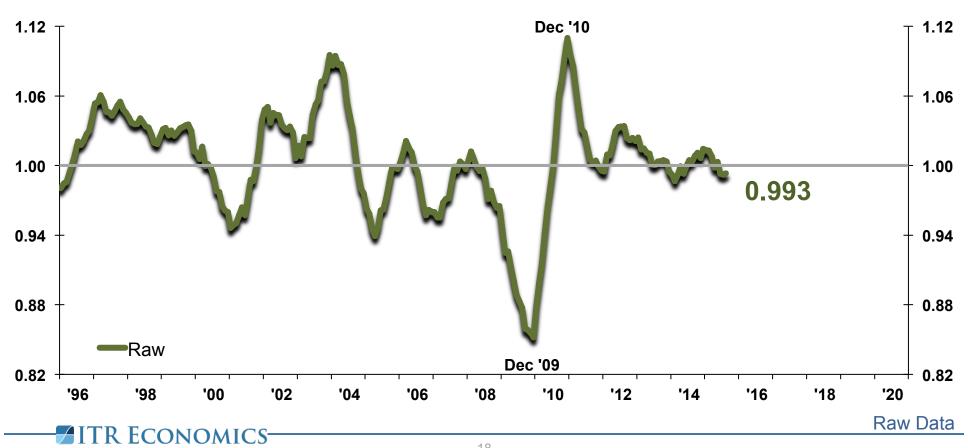
## **Trends 10**



#### **Purchasing Managers Index**



#### **Ratio of Inventories to New Orders**



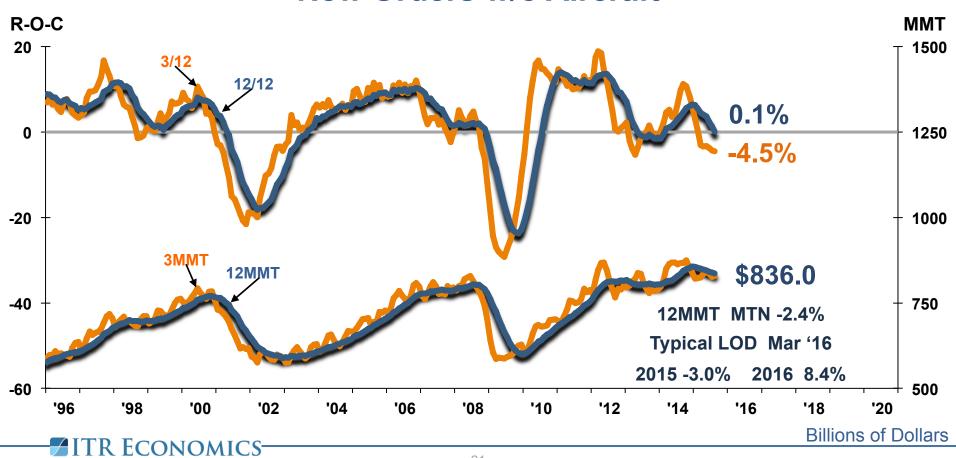
## **US Leading Indicator**



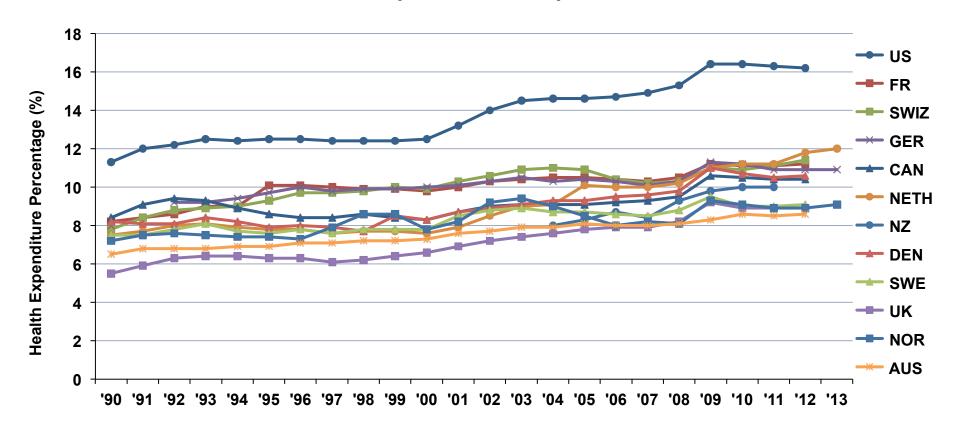
#### **Stock Prices Index**

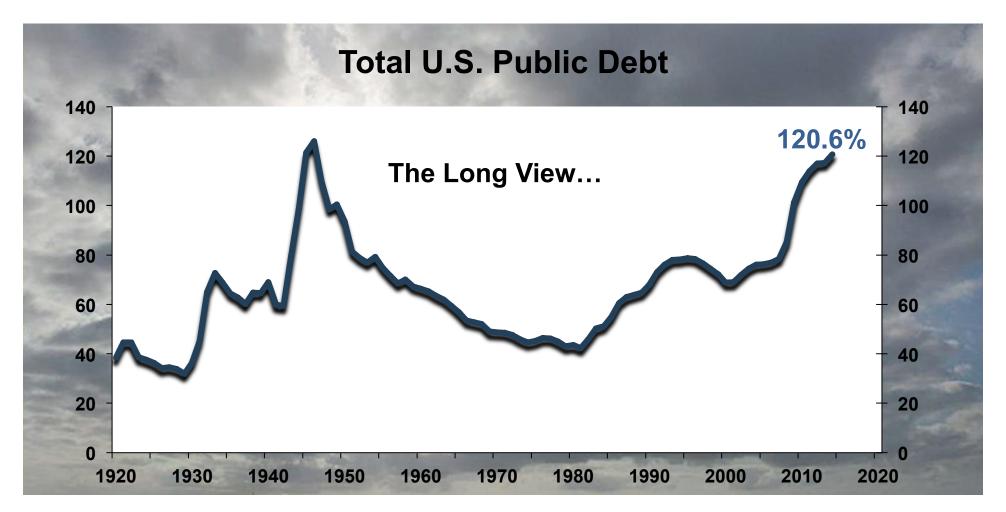


#### Nondefense Capital Goods New Orders w/o Aircraft



# Total Expenditure on Health as a Percent of GDP (1990-2013)





(% of GDP)

### **US/Global Recovery – Good Days Ahead**

Consumers are in great shape

World is relatively calm

Employment rising

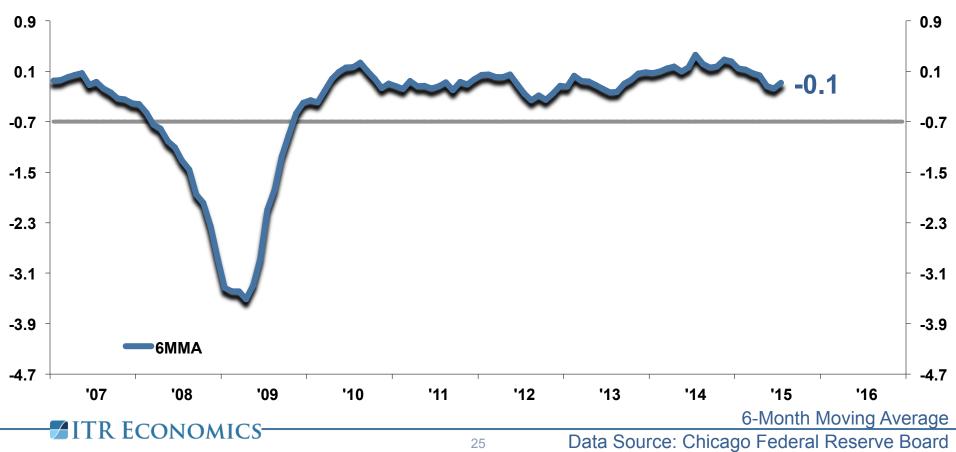
Banks are lending

Retail Sales are rising

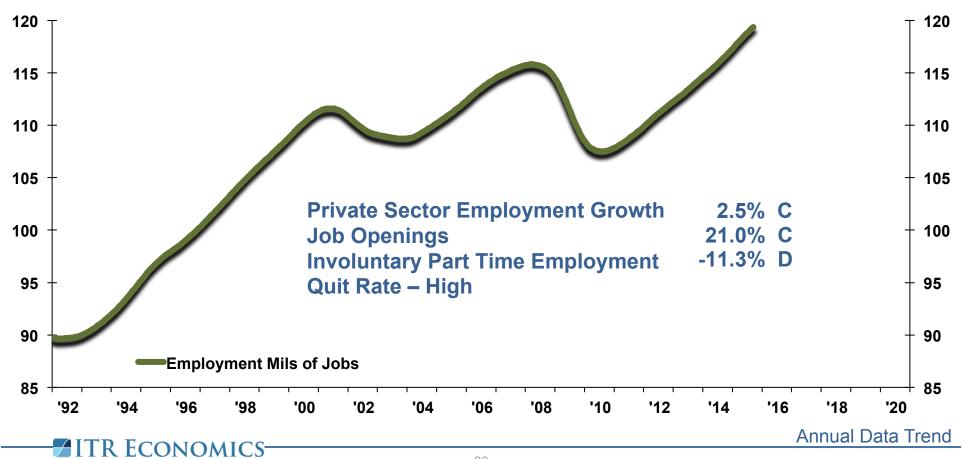
Non-residential construction is improving

Deficit spending continues – no fear of austerity

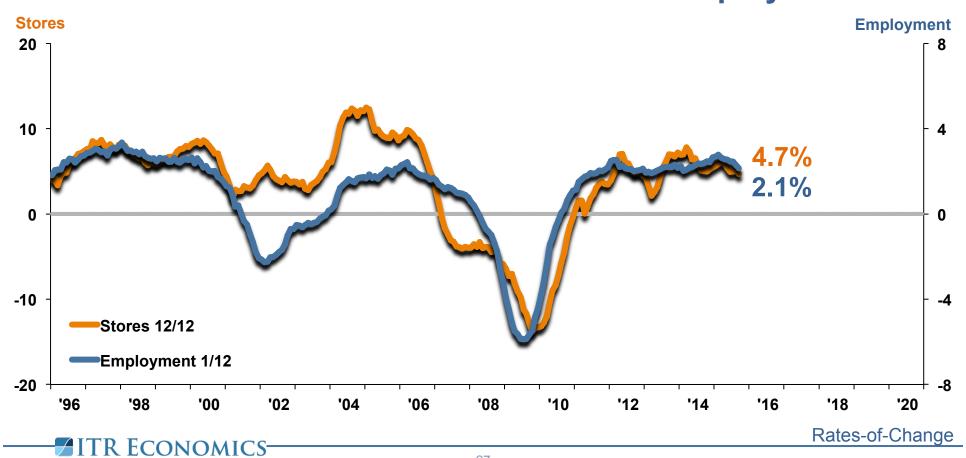
### **Chicago Fed National Activity Index**



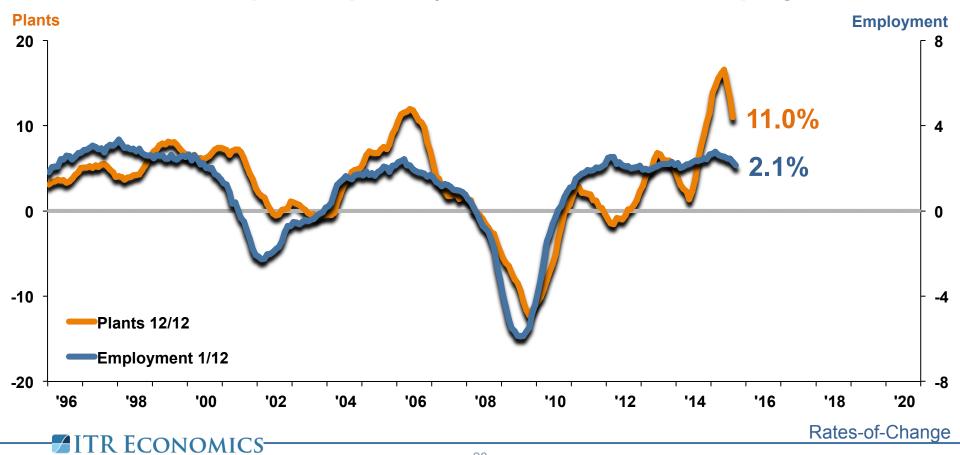
#### **Employment – Private Sector**



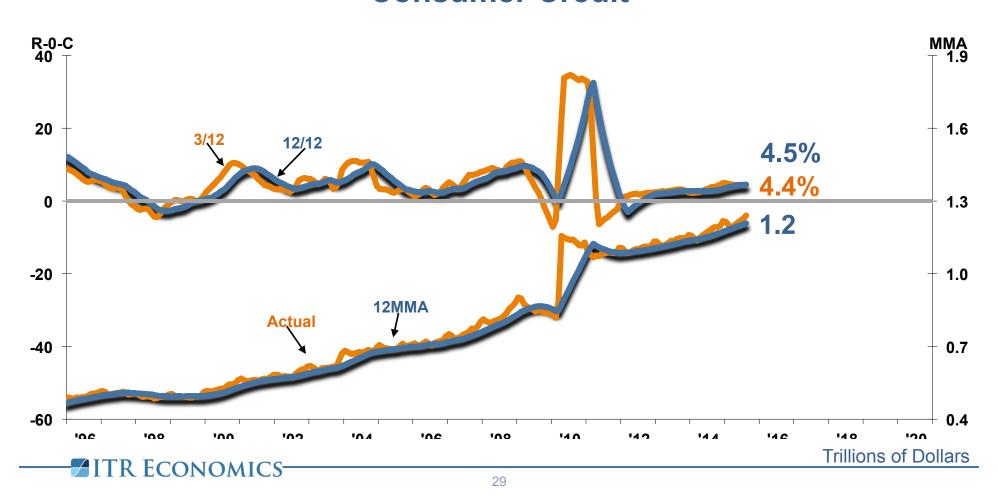
# US Building Materials, Garden Equipment and Supplies Stores Retail Sales to Private Sector Employment



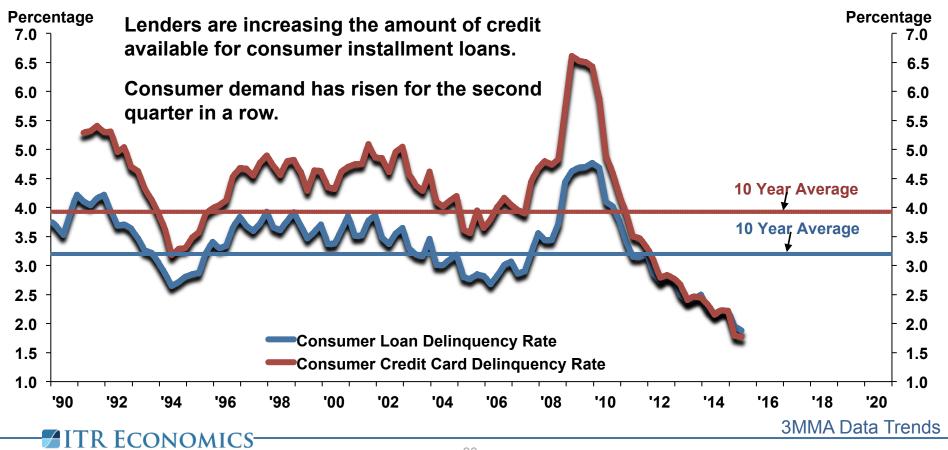
# US Personal Consumption Expenditures for Plantings (flowers, seeds, and potted plants) to Private Sector Employment



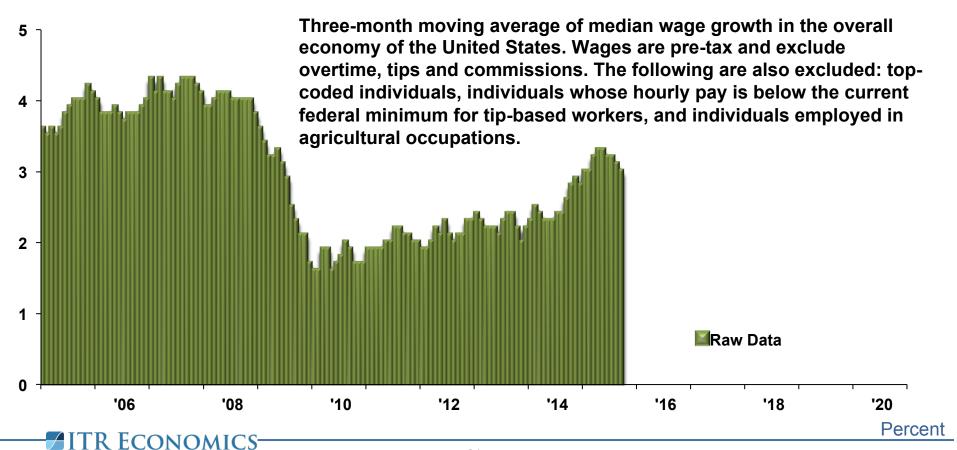
#### **Consumer Credit**



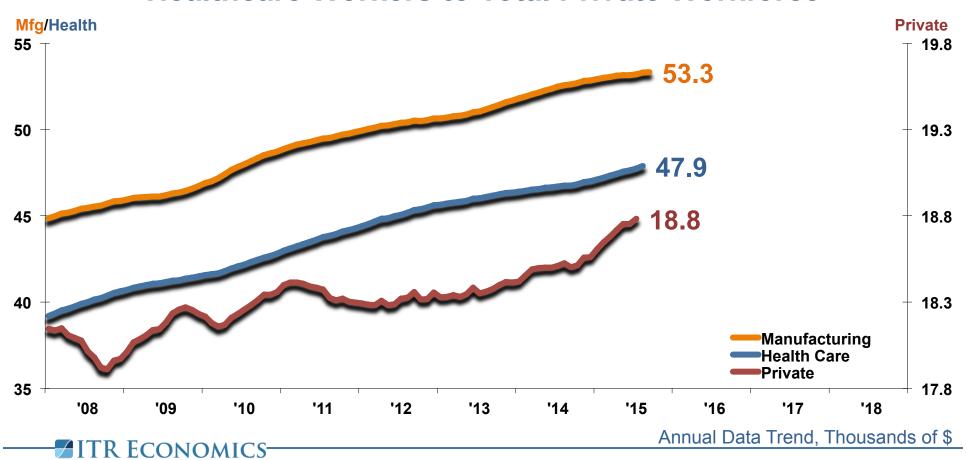
#### **Delinquency Rates on Consumer Loans**



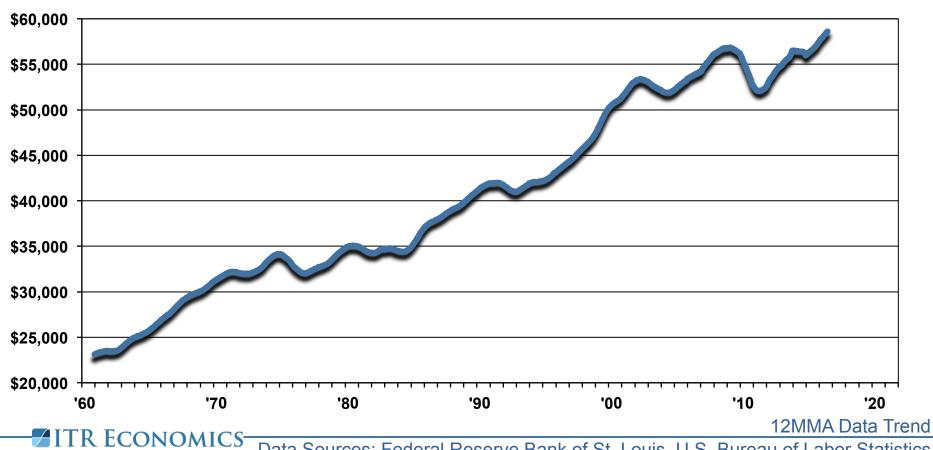
#### **US Overall Wage Growth**



# Average Annual Earnings: Manufacturing Workforce to Healthcare Workers to Total Private Workforce

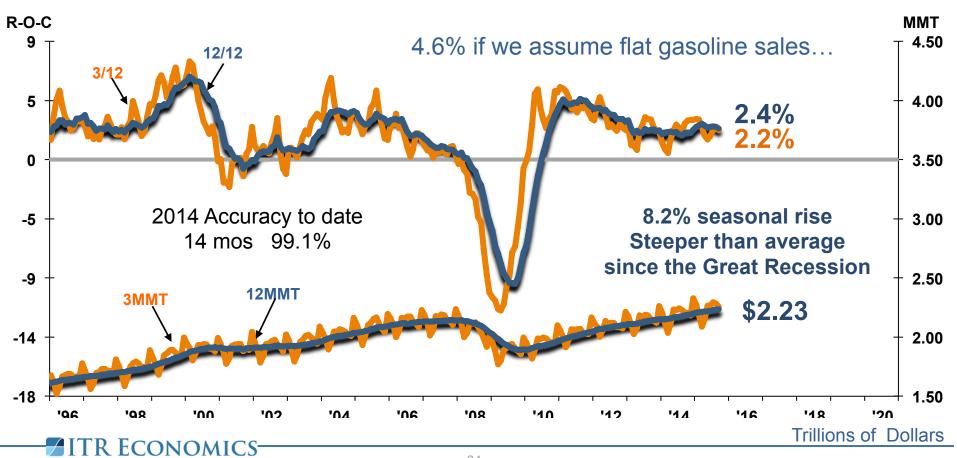


### **Real Personal Income Less Transfer Receipts** Average per Person Age 18 to 65

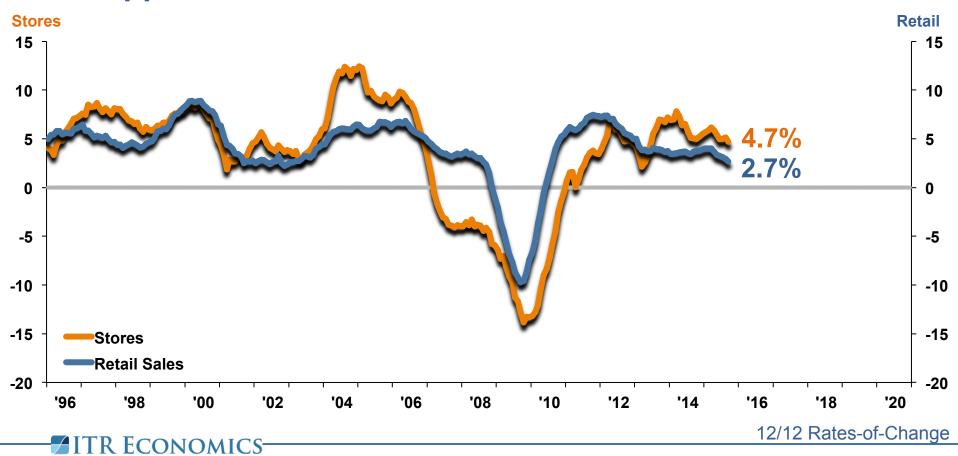


Data Sources: Federal Reserve Bank of St. Louis, U.S. Bureau of Labor Statistics

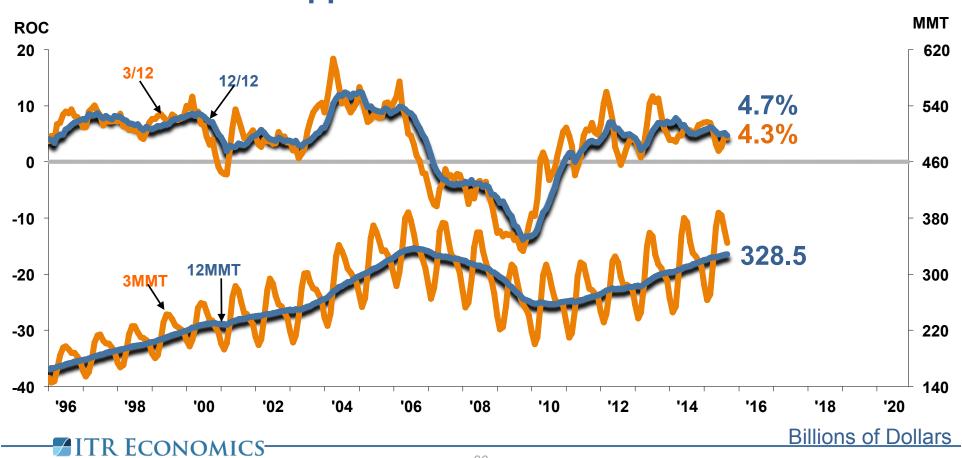
#### **Total Retail Sales (deflated)**



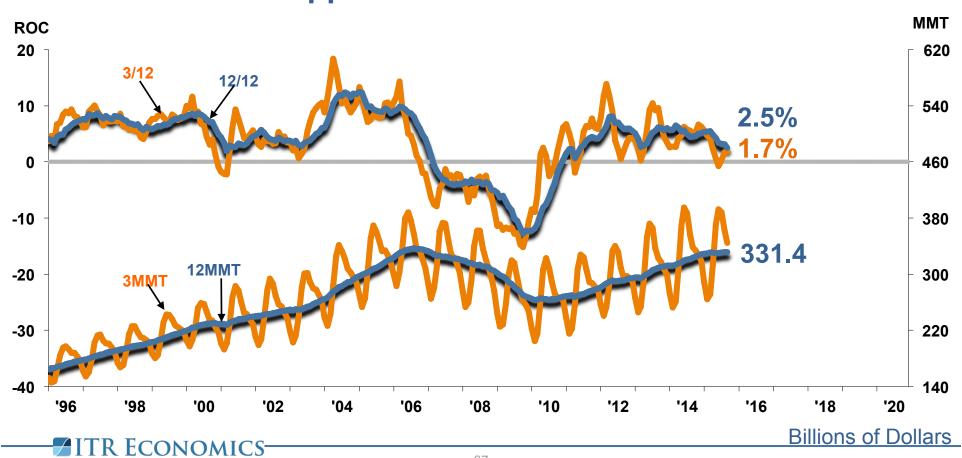
# US Building Materials, Garden Equipment and Supplies Stores Retail Sales to US Total Retail Sales



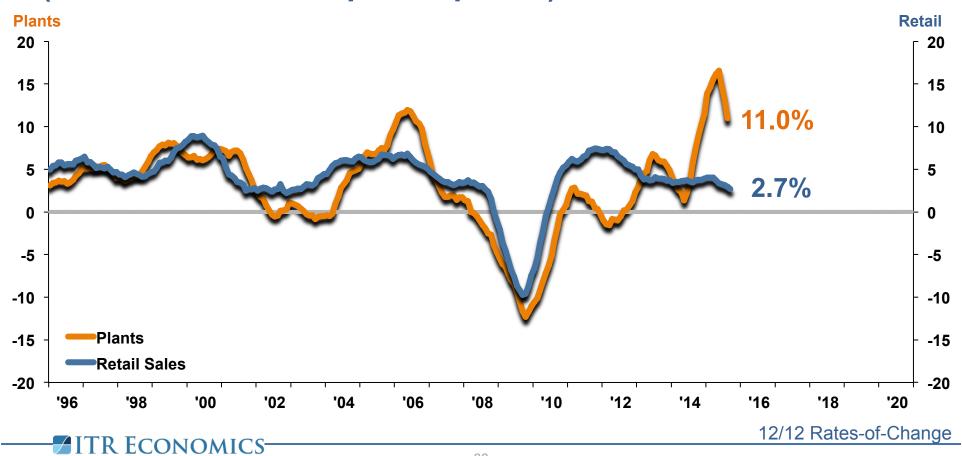
# Building Materials, Garden Equipment & Supplies Stores Retail Sales



## Building Materials, Garden Equipment & Supplies Stores Retail Sales



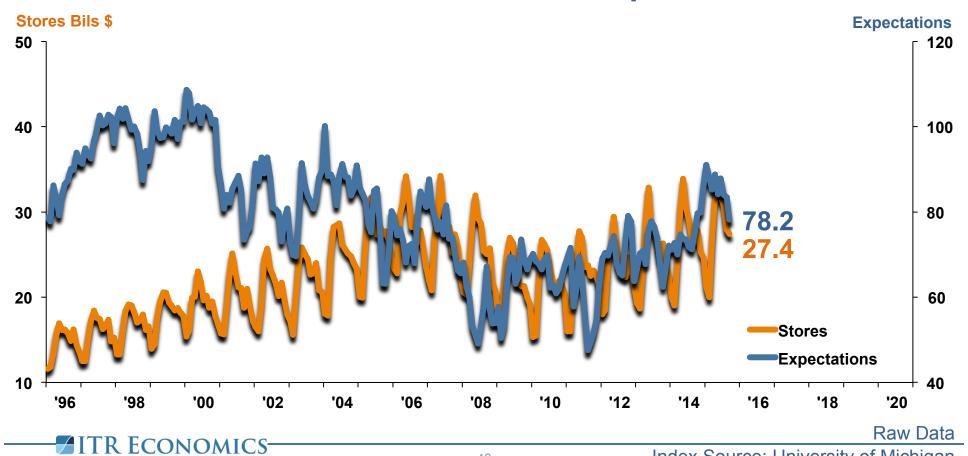
## US Personal Consumption Expenditures for Plantings (flowers, seeds and potted plants) to US Total Retail Sales



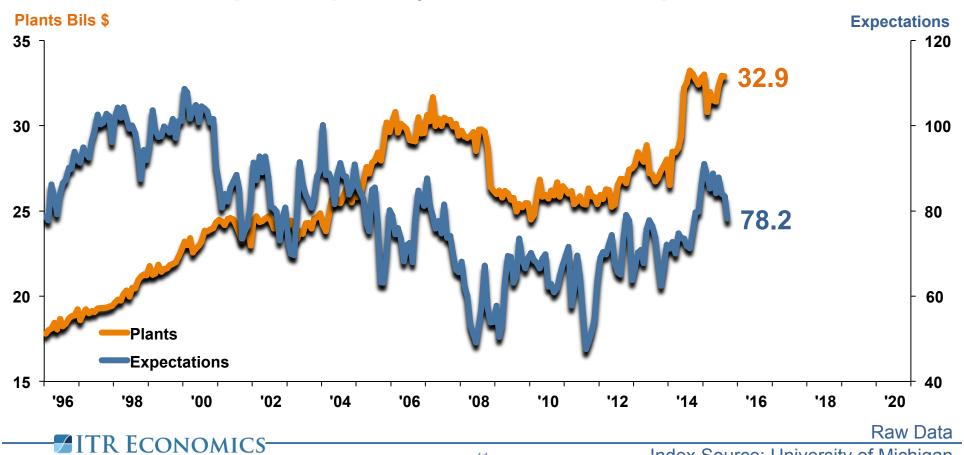
## Personal Consumption Expenditures: Plantings (Flowers, Seeds and Potted Plants)



#### **US Building Materials, Garden Equipment and Supplies Stores Retail Sales to Consumer Expectations Index**

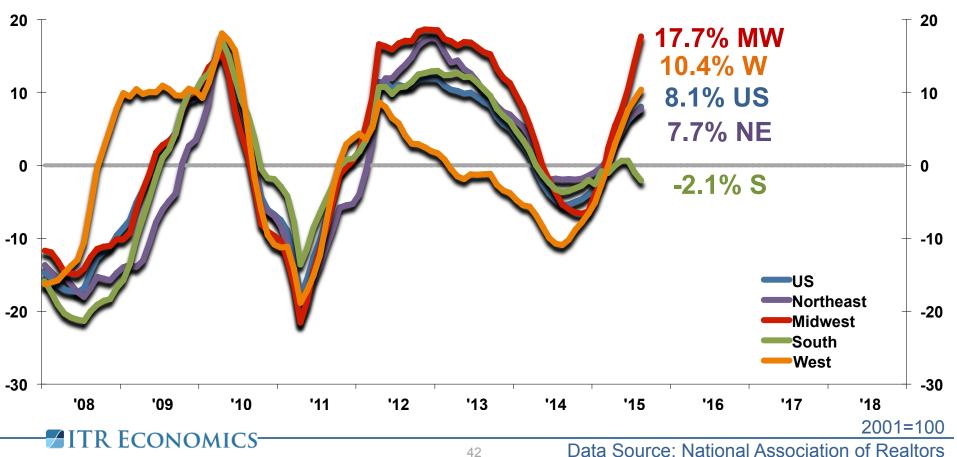


### US Personal Consumption Expenditures for Plantings (flowers, seeds, and potted plants) to Consumer Expectations Index

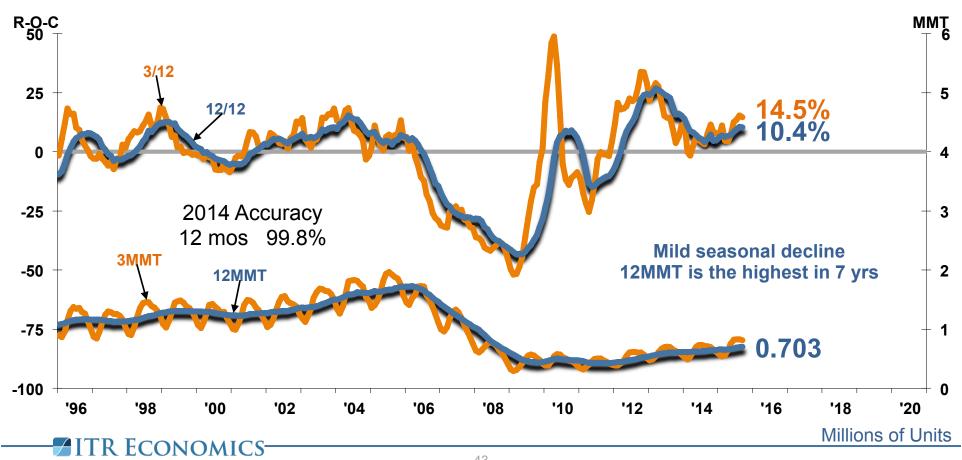


41

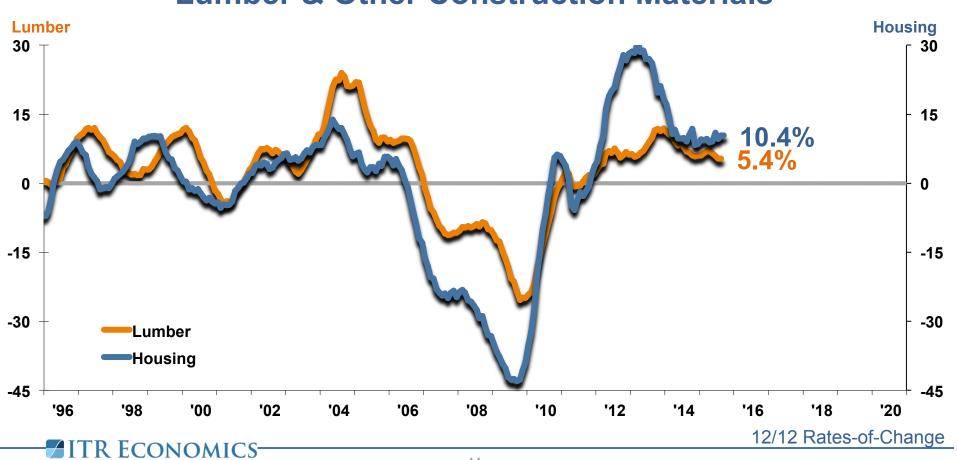
#### **Pending Home Sales Index**



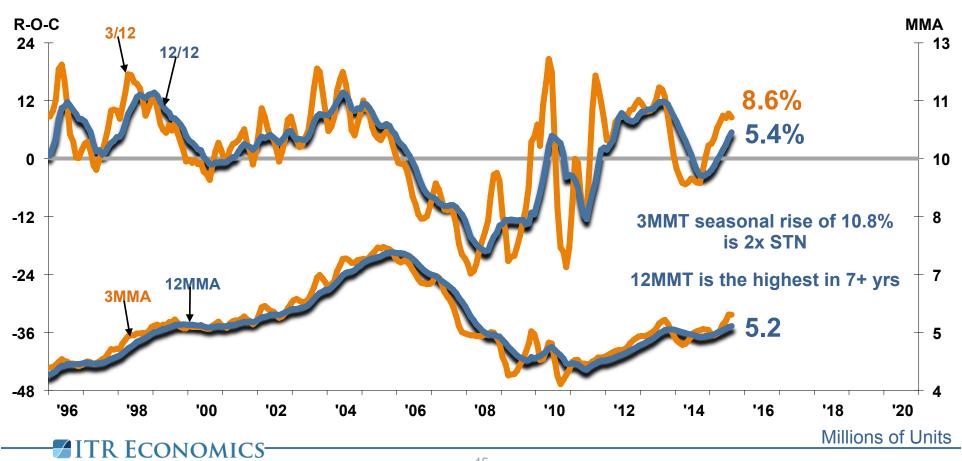
#### **Single Unit Housing Series**



## Housing Starts to Wholesale Trade of Lumber & Other Construction Materials



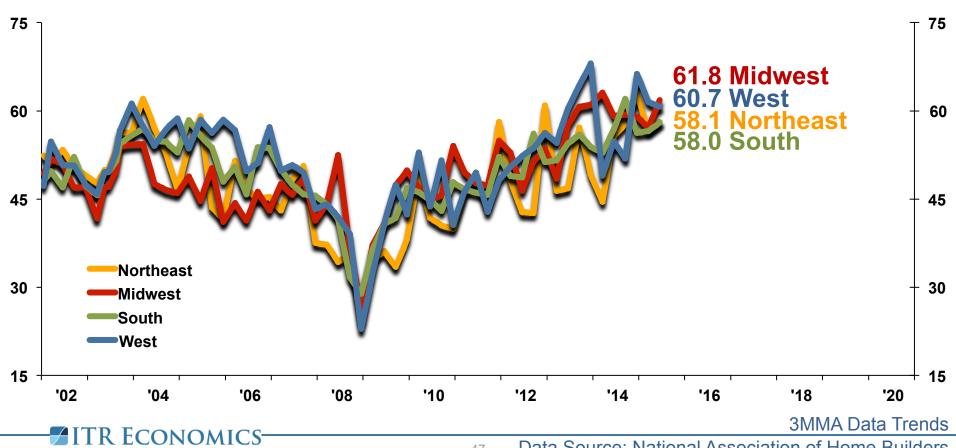
#### **Existing Home Sales**



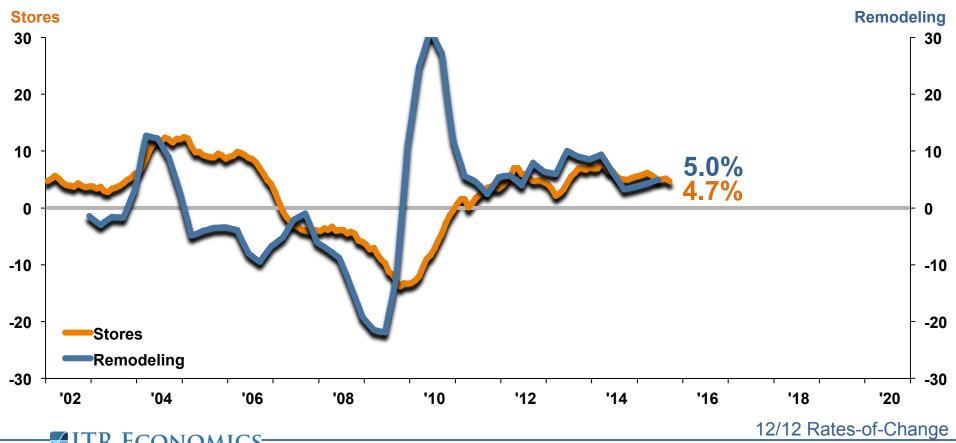
#### **Architecture Billing Index**

**Northeast Region Architecture Billings Index** 46.8 **Architecture Billings Index** 49.1 49.5 **Residential Sector Architecture Billings Index Commercial/Industrial Sector Arch. Billings** 49.7 **West Region Architecture Billings Index** 50.2 **Mixed Sector Architecture Billings Index 52.8 Institutional Sector Architecture Billings Index** 53.7 53.8 **South Region Architecture Billings Index Midwest Region Architecture Billings Index** 56.1 **Architecture INQUIRIES Index** 61.8 25 35 45 55 65 **75** 

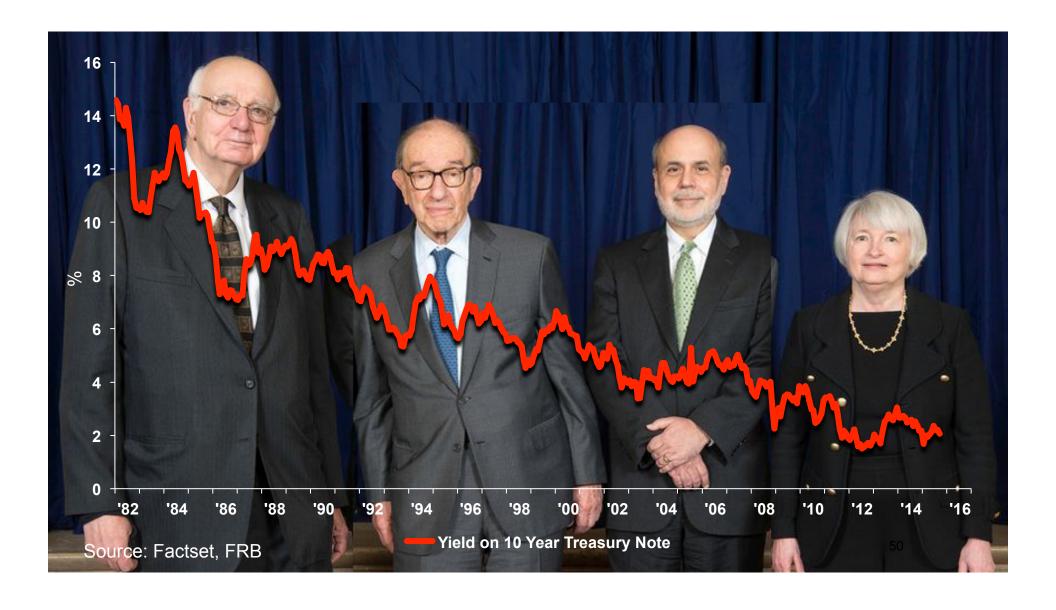
#### **Remodeling Market Index**



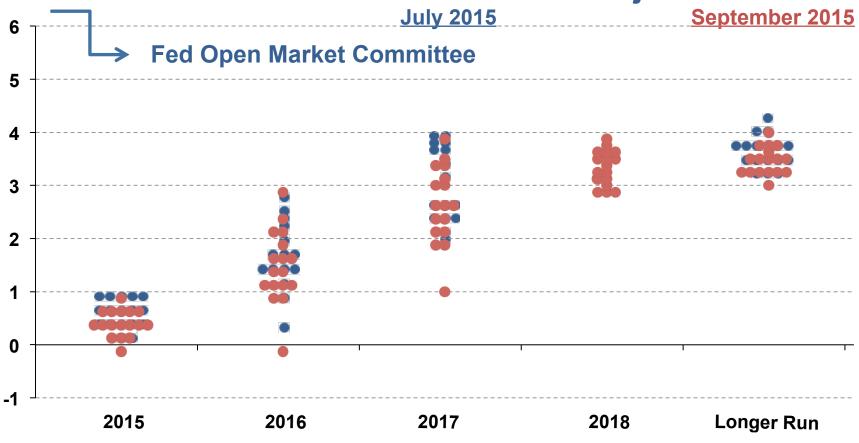
#### US Building Materials, Garden Equip., and Supplies Stores Retail Sales to **National Remodeling Market Index for Current Market Conditions**

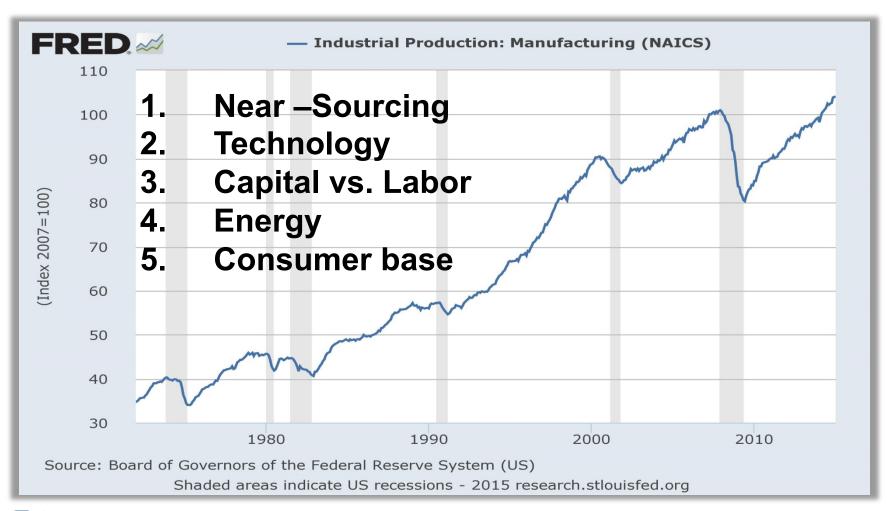




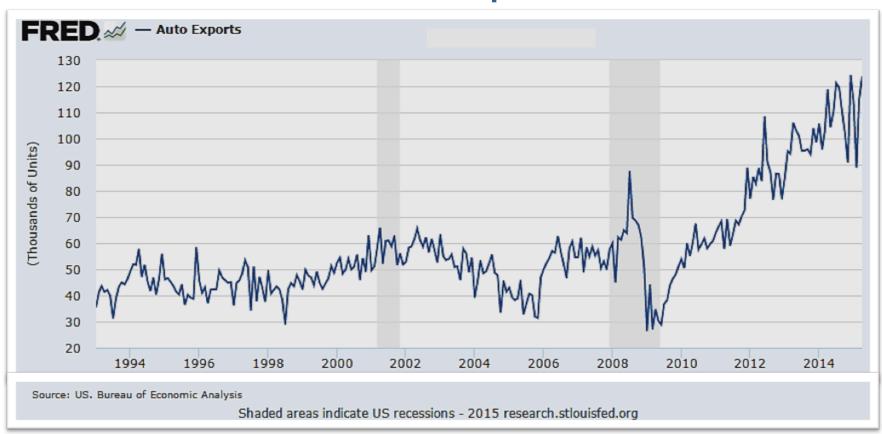


#### **FOMC Member Interest Rate Projections**

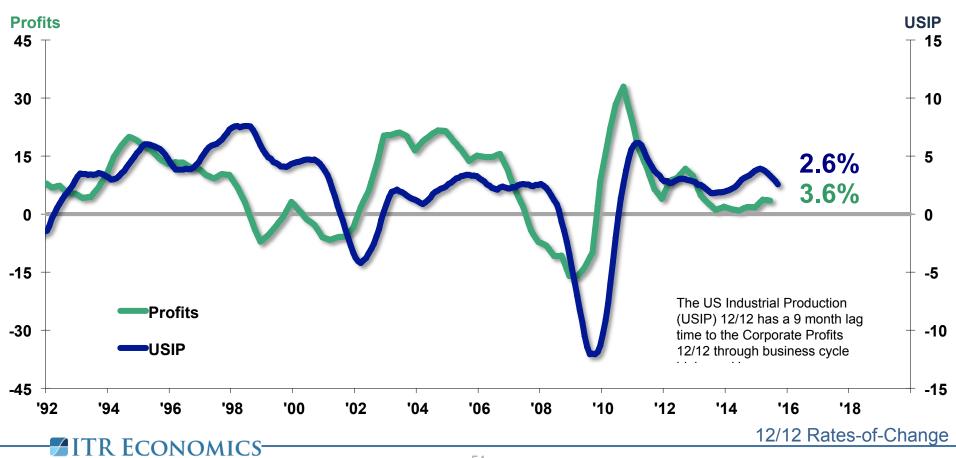




#### **US Auto Exports**



#### **Corporate Profits to US Industrial Production**



Construction Segments Annual Trend			
Sector	Phase	Year- over-year	Annual Data Trend In \$
Total Public Construction	В	5.3	Rising
Total New Construction	В	7.5	Rising
Total Health Care Facilities Private Medical Building Construction	В	2.0	Rising
	D	-7.6	Declining
Primary & Secondary Building Construction	С	2.0	Declining
Private Education Building Construction	В	2.3	Rising
Total Office Building Private Office Building Construction	В	23.1	Rising
	С	27.4	Rising
Private Lodging	В	29.0	Rising
Total Commercial Building	С	14.9	Rising
Multi-Family Residential	С	26.9	Rising
Airport Passenger Terminals	Α	-0.2	Declining







#### **Bullish on 2016**

- Some improvement in Global Leading Indicators
- US Corporate Profit rising
- Disposable Personal Income rising
- © Oil Prices Good for consumers, rising in 2016
- National Defense Expenditures (A)
- Existing Home Sales cyclical rise underway
- Pending Home Sales
- General Consumer Activity healthy
- Money Supply (M2, deflated) 5.3% and rising

#### Phase Management Objectives<sup>TM</sup>

#### Preparing for 2016

- 1. Find out where you are in the business cycle
- 2. Implement growth strategies
- 3. Spend money on marketing C.M.O.
- 4. Spend money on people and process, and then... spend some more!
- 5. Plan for higher wages
- 6. Plan on higher energy costs in '16

# It's About <u>YOU!</u> YOUR RISK, YOUR PROFITABILITY



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