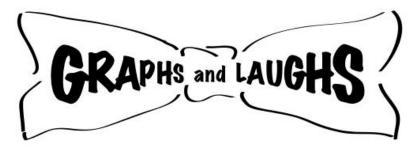
THE ECONOMY IN 2019: TERRIFIC, TURBULENT OR TEPID?

Presented by:

Elliot F. Eisenberg, Ph.D.

President: GraphsandLaughs, LLC

January 15, 2019 Reno, NV



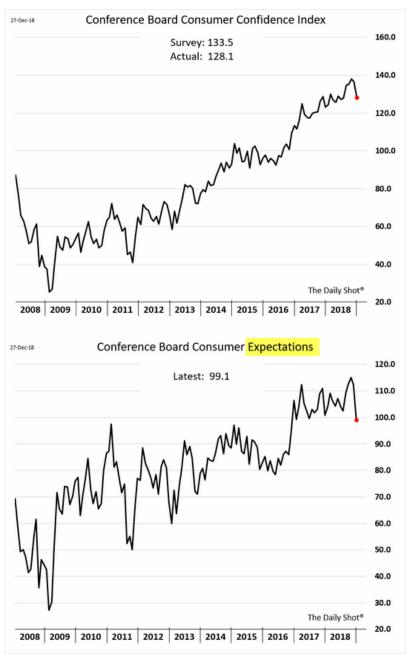
The Economy is OK!

GDP = C+I+G+(X-M)



Conference Board Consumer Confidence is High

But off their best levels

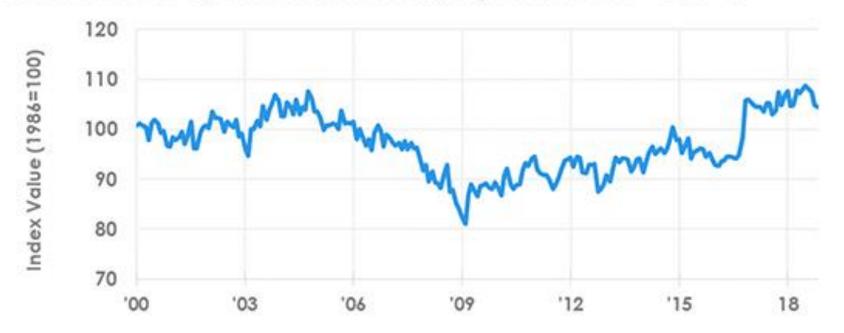


Small Business Confidence Remains Strong

Spectacular rise since election. But, declines of late

Small Business Optimism Index Remains High at 104.4

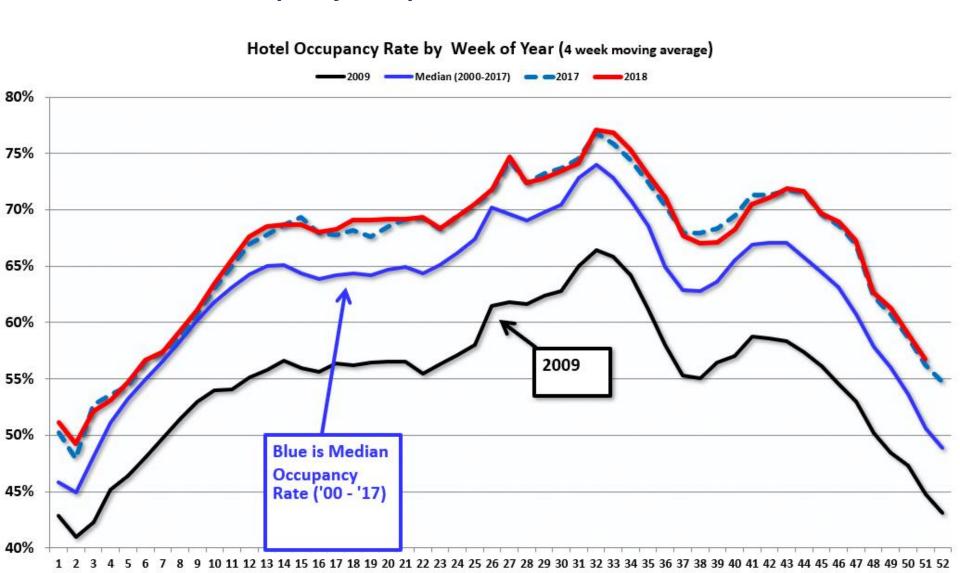
Based on 10 survey indicators, seasonally adjusted, Jan. '00 – Dec. '18





Hotel Occupancy Rates are Excellent!

Occupancy is superb as are ADR and RevPAR



http://www.calculatedriskblog.com/

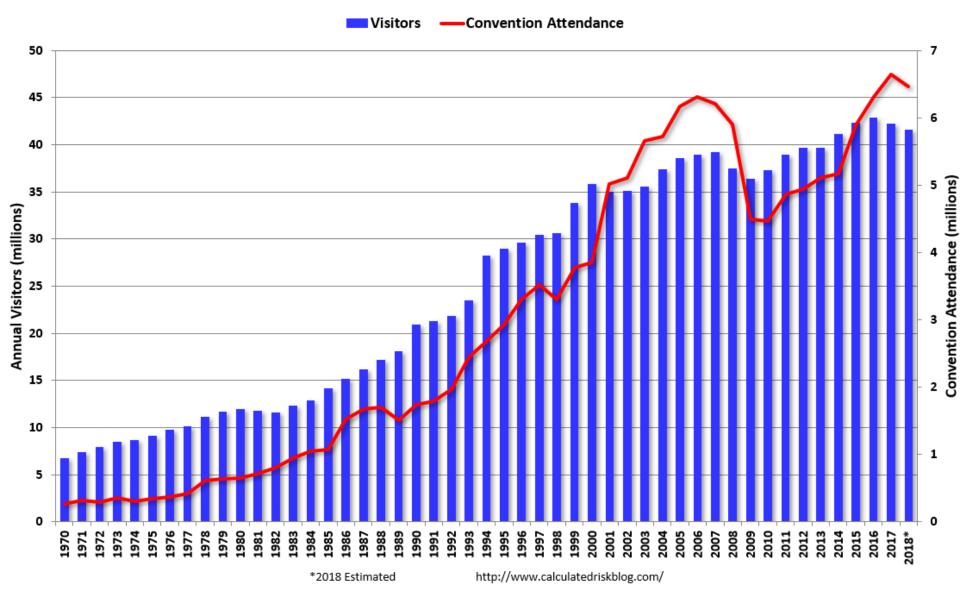
Source: STR, HotelNewsNow.com

Week of Year

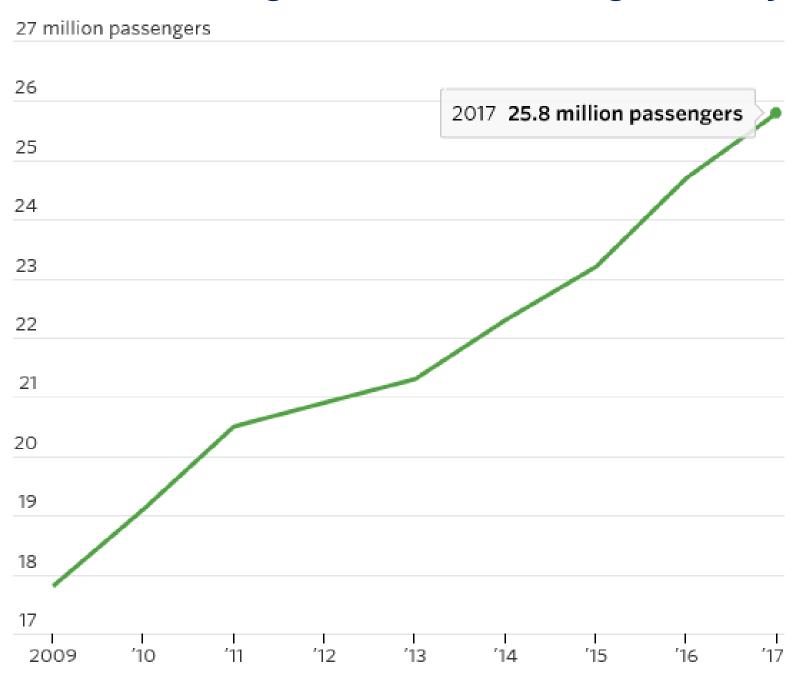
Las Vegas Attendance Is good

The gamblers are generally back along with the conventioneers

Las Vegas Visitors

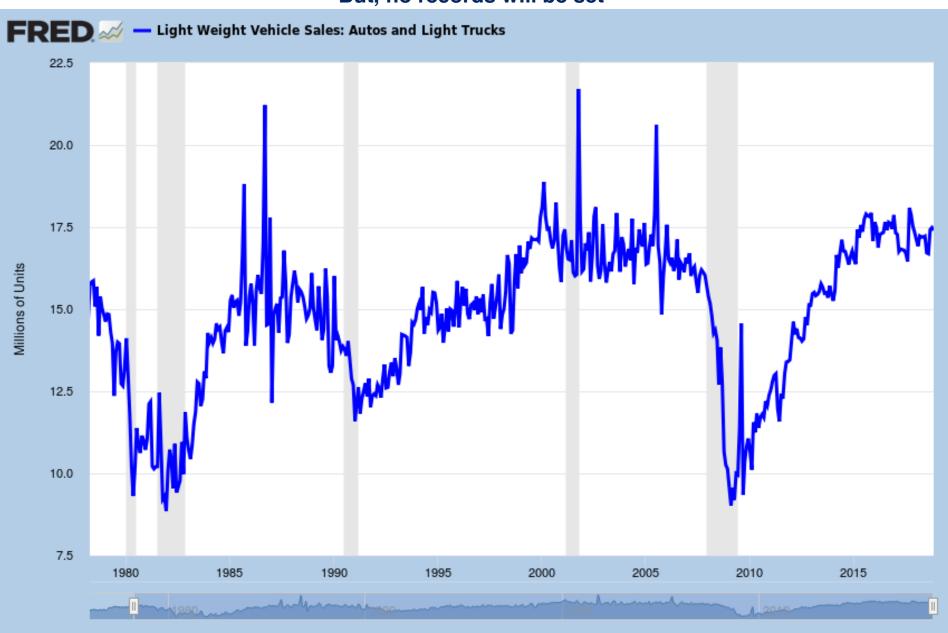


Cruise-Passenger Growth is Rising Globally



US Light Vehicle Sales Slow

But, no records will be set



Housing Improvements & Repairs Keep Rising

Homes are aging, rates are low, home equity is good, and a lack of inventory

Leading Indicator of Remodeling Activity – Third Quarter 2018



Note: Historical estimates since 2015 are produced using the LIRA model until American Housing Survey data become available. Source: Joint Center for Housing Studies.

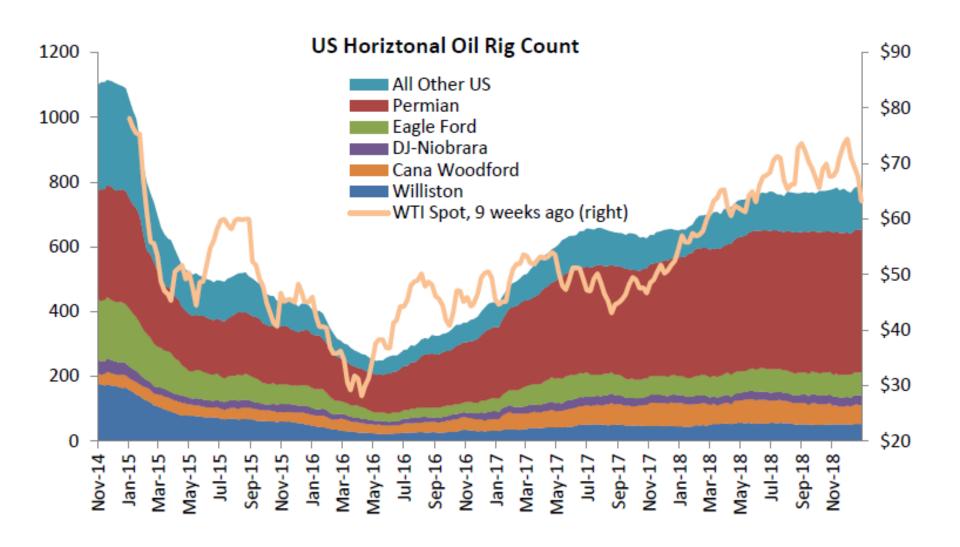
Annual Y-o-Y Percent Change in PCE

A very solid growth rate of 2.85%



Drilling Activity is High But Flat

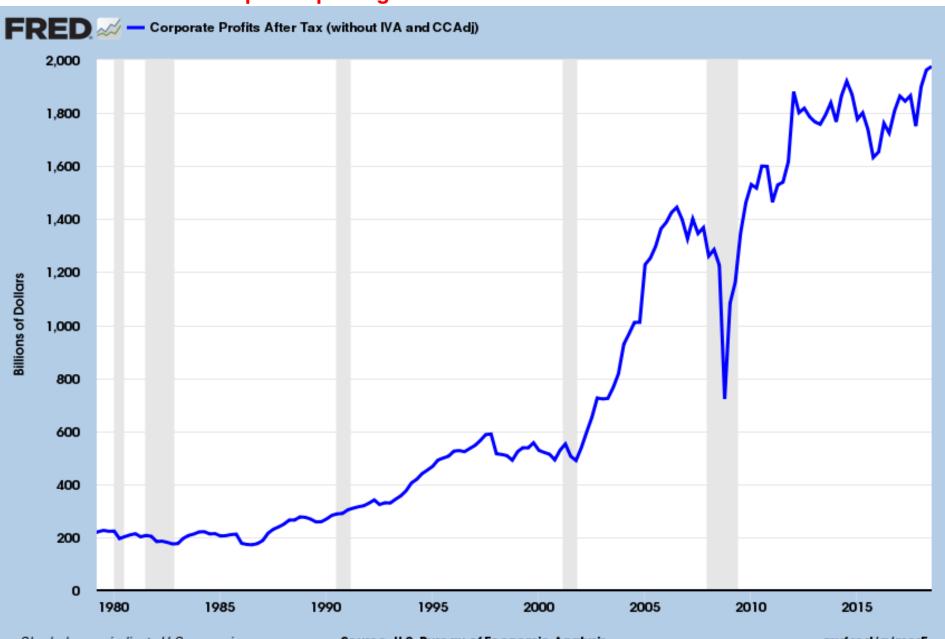
Falling prices hurt but a lack of pipelines are a more lasting problem



Horizontal oil rigs: +0 to 786

Corporate Profits are at a Record High

Corporate profit growth in 2019 will be much weaker



Shaded areas indicate U.S. recessions

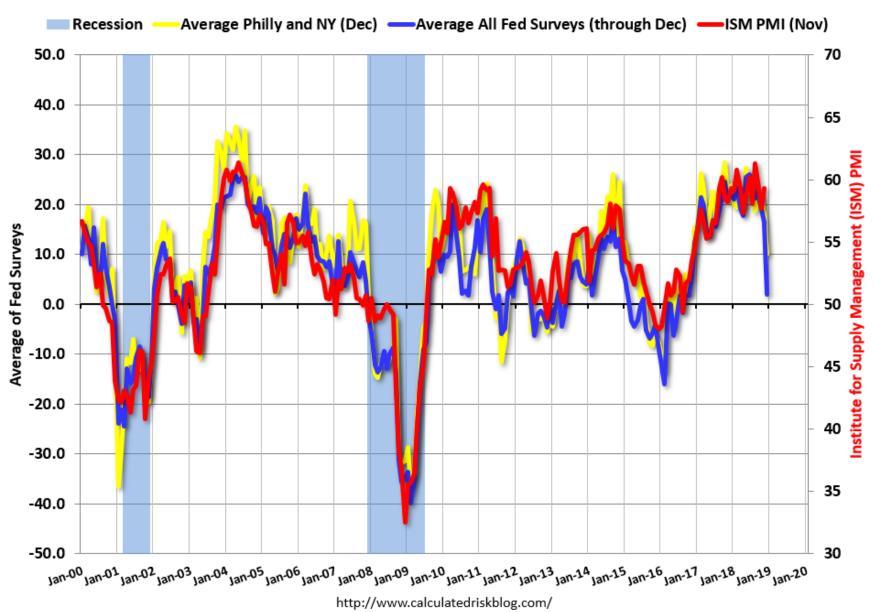
Source: U.S. Bureau of Economic Analysis

myf.red/g/merE

ISM Manufacturing Numbers Decline!

Manufacturing is less important than in decades past. Has it peaked?

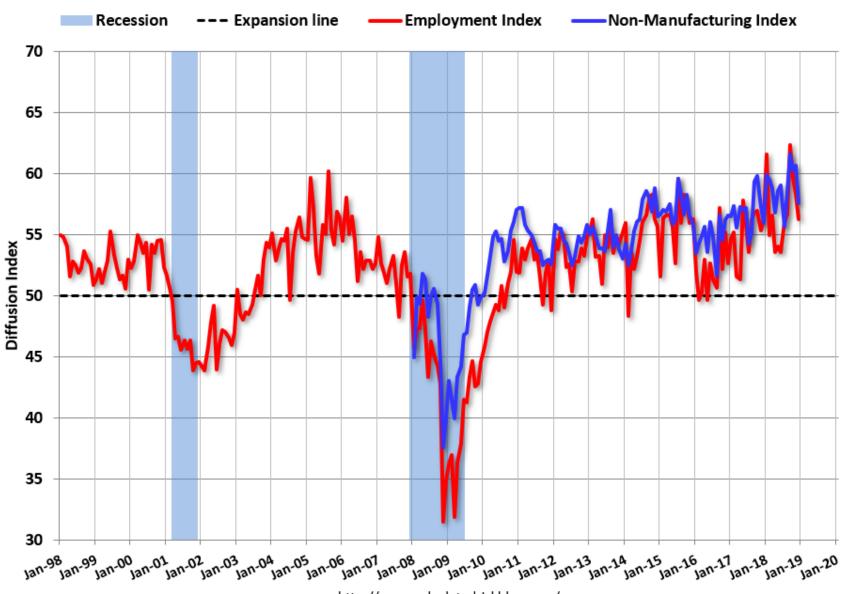
ISM Purchasing Managers' Index (PMI) and Fed Manufacturing Surveys



ISM Non-Manufacturing Numbers are Good

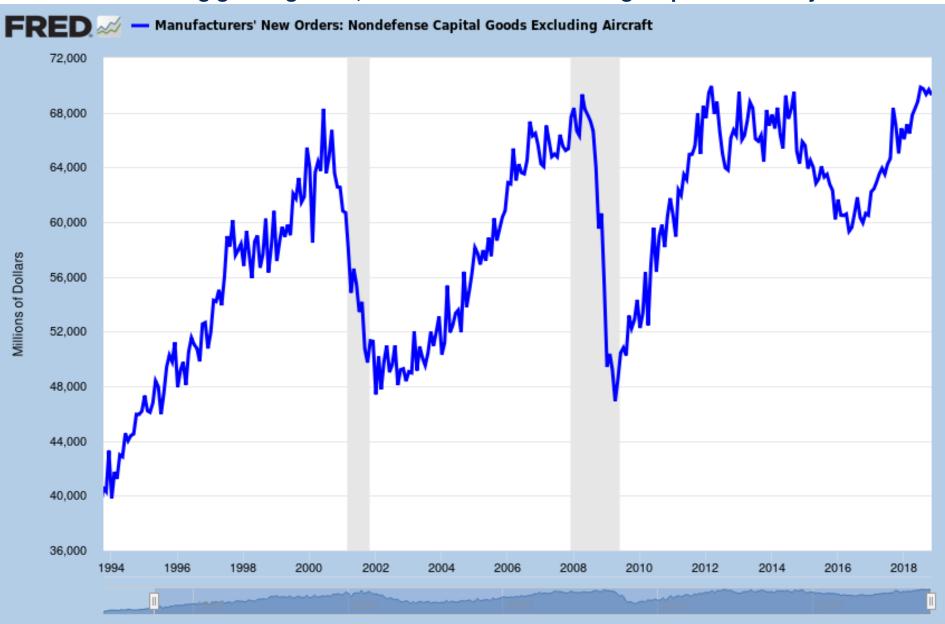
Service sector is hold up

ISM Non-Manufacturing and Employment Diffusion Indexes



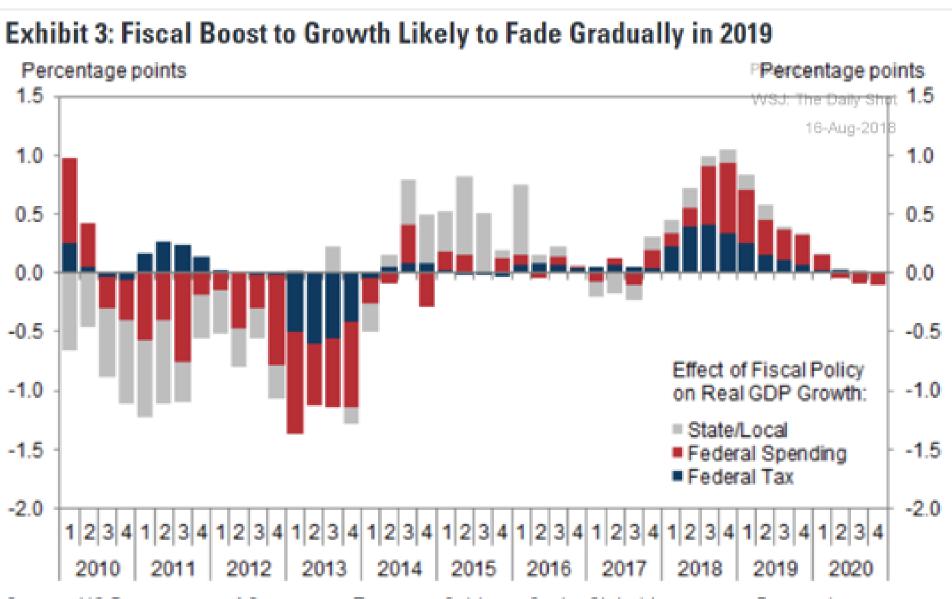
Look at Capital Goods Orders. They are OK

Slowing global growth, trade concerns and falling oil prices are why



Tax Cuts Are Supercharging the Economy

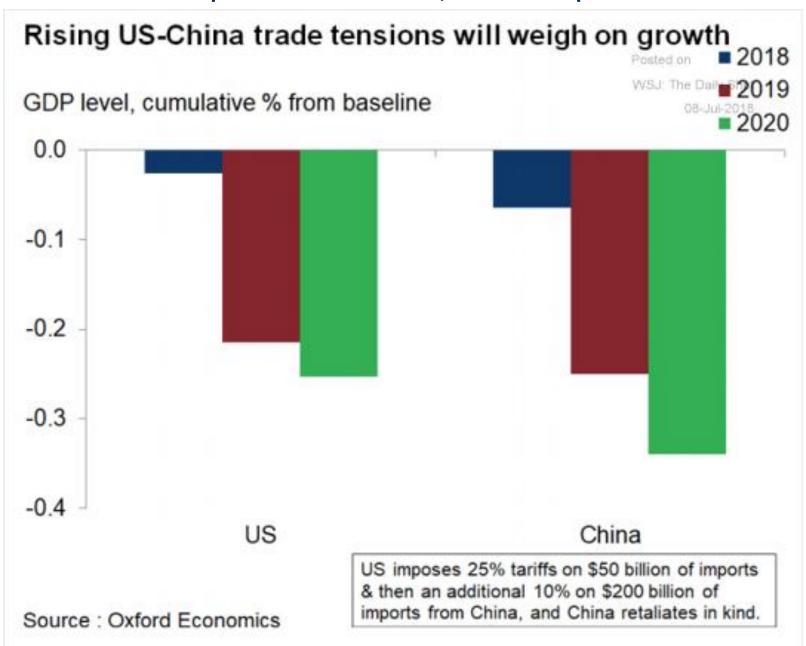
But, only in the short run



Source: US Department of Commerce, Treasury, Goldman Sachs Global Investment Research

\$250 Billion Trade War Hurts GDP

The impact will rise over time, and is now quite small



The G20 Nations Growth Will Slow

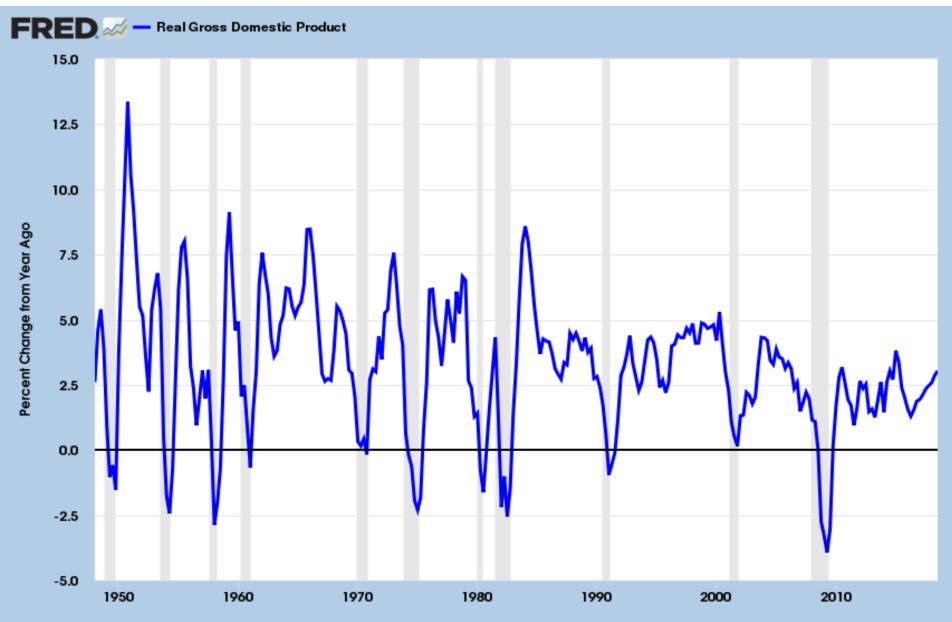
Slowing US is a key reason

Global macroeconomic outlook for G-20 countries, 2019-20 (November 2018 update)

Economies	Real GDP Growth %				
	17 18E 육육유용요움음을 19F 20				
G-20 Advanced	2.2	2.3		1.9	1.4
US	2.3	2.9		2.3	1.5
Euro area 1	2.5	2.0		1.8	1.6
Japan	1.7	1.1		0.8	0.4
Germany	2.5	1.8		1.7	1.3
UK	1.7	1.3		1.6	1.4
France	2.2	1.7		1.6	1.6
Italy	1.5	1.0		1.3	1.3
Canada	3.0	2.1		2.0	1.7
Australia	2.3	3.0		2.8	2.5
South Korea	3.1	2.5		2.3	2.5
G-20 Emerging	5.3	5.0		4.6	4.9
China	6.9	6.6		6.0	6.0
India	6.7	7.4		7.3	7.3
Brazil	1.0	1.8		2.0	2.5
Russia	1.5	1.8		1.6	1.5
Mexico	2.0	2.3		2.2	1.5
Indonesia	5.1	5.1		4.8	4.7
Turkey	7.4	1.5		-2.0	3.0
Saudi Arabia	-0.7	2.5		2.7	2.2
Argentina	2.9	-2.5		-1.5	1.5
South Africa	1.3	0.5		1.3	1.5
G-20 All	3.3	3.3		2.9	2.7

GDP Growth Will Slow

Impact of the recent tax cuts and spending increases will fade through 2019



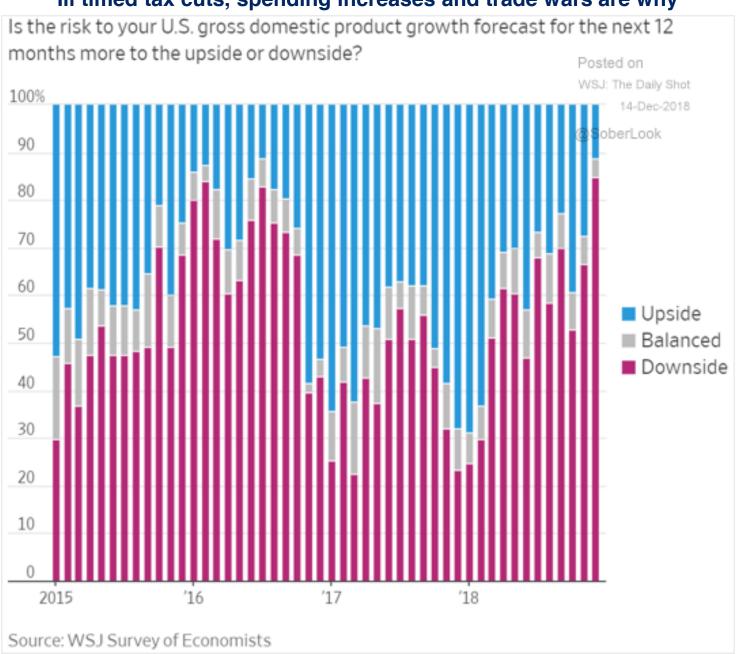
Shaded areas indicate U.S. recessions

Source: U.S. Bureau of Economic Analysis

myf.red/g/ILb3

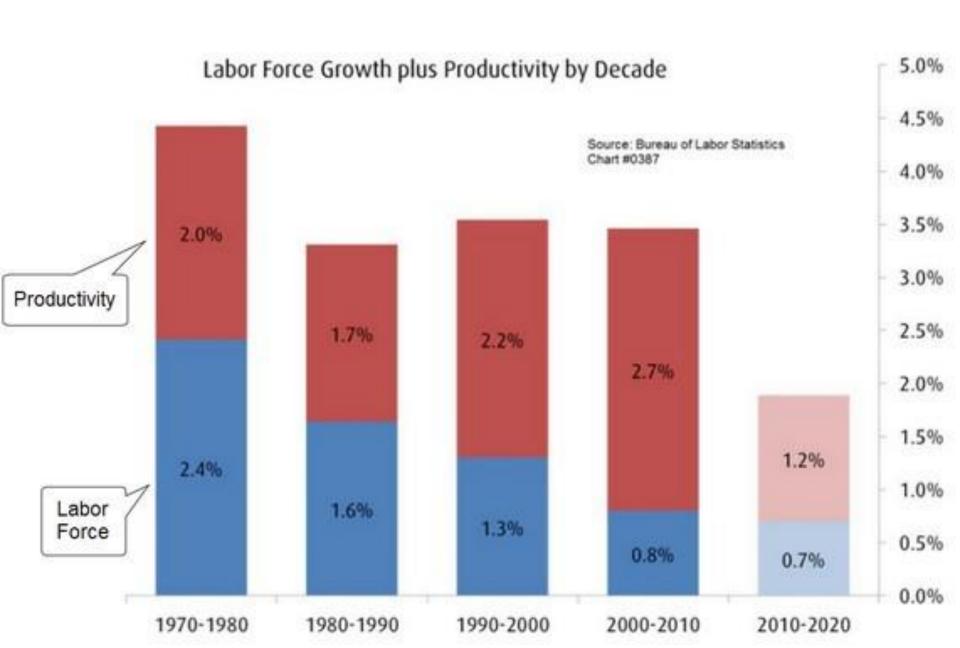
Future GDP Growth is Imperiled

Ill timed tax cuts, spending increases and trade wars are why



GDP Can't Grow Fast!

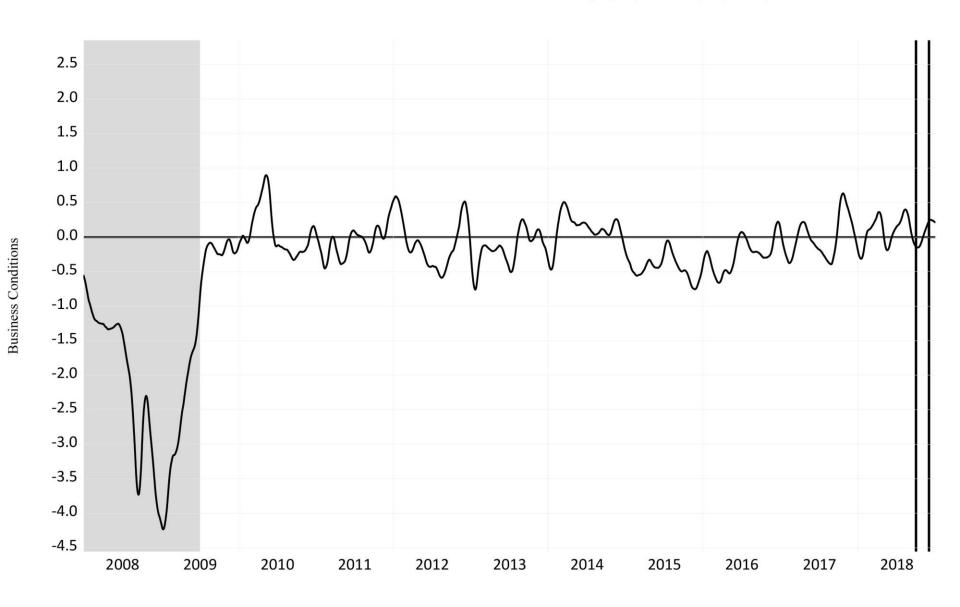
Very weak population growth and labor productivity growth



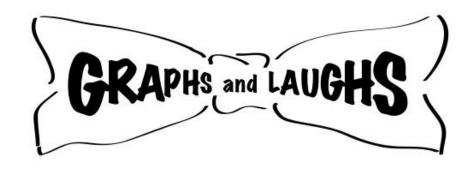
Best of All, No Recession Now!

Designed to track real macroeconomic activity in real time

Aruoba-Diebold-Scotti Business Conditions Index (12/31/2007- 12/31/2018)

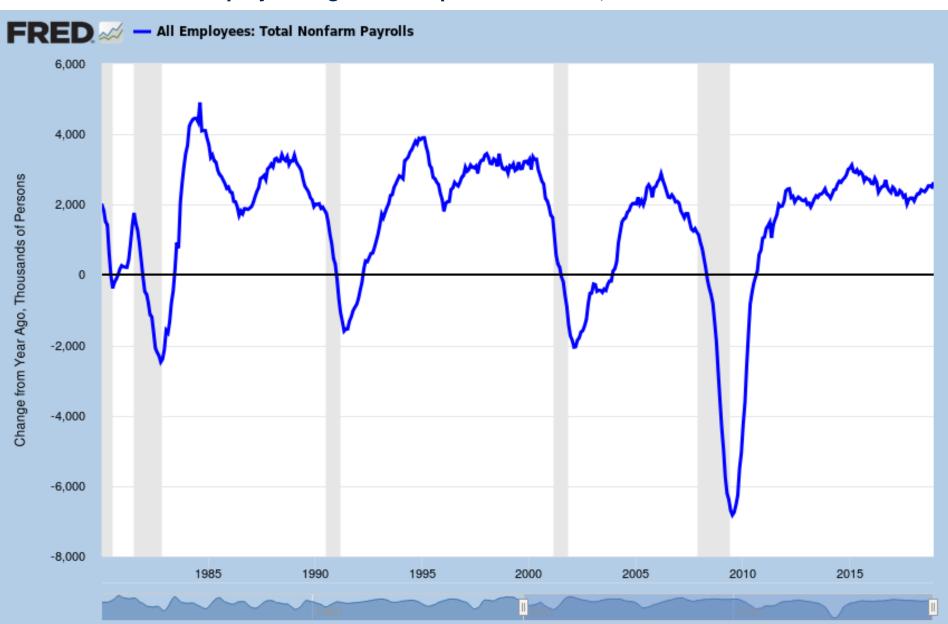


Labor Markets: They're Tight, Very Tight



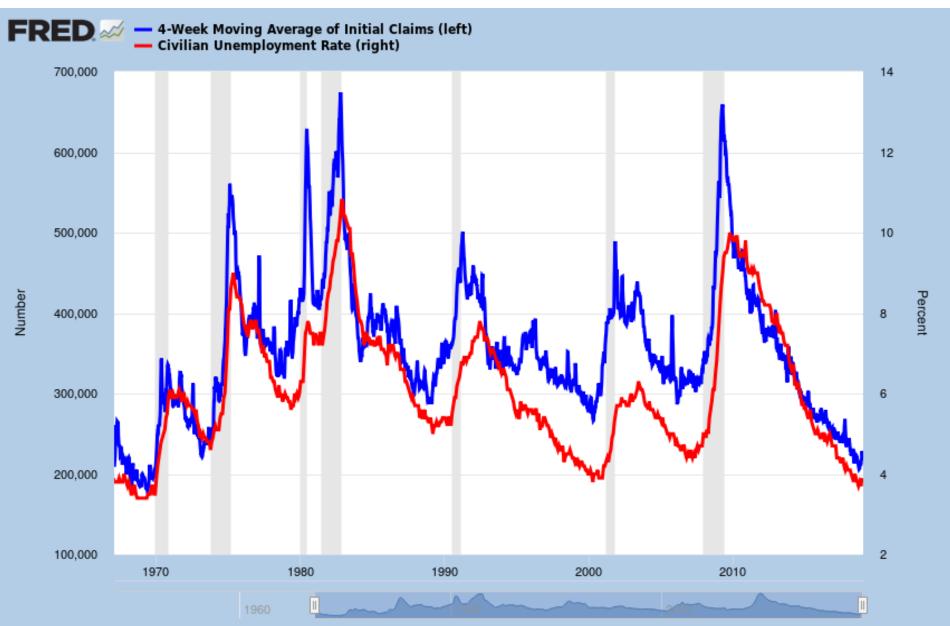
Historical Job Growth

Y-o-Y Total employment growth is spectacular. But, we will run out of workers



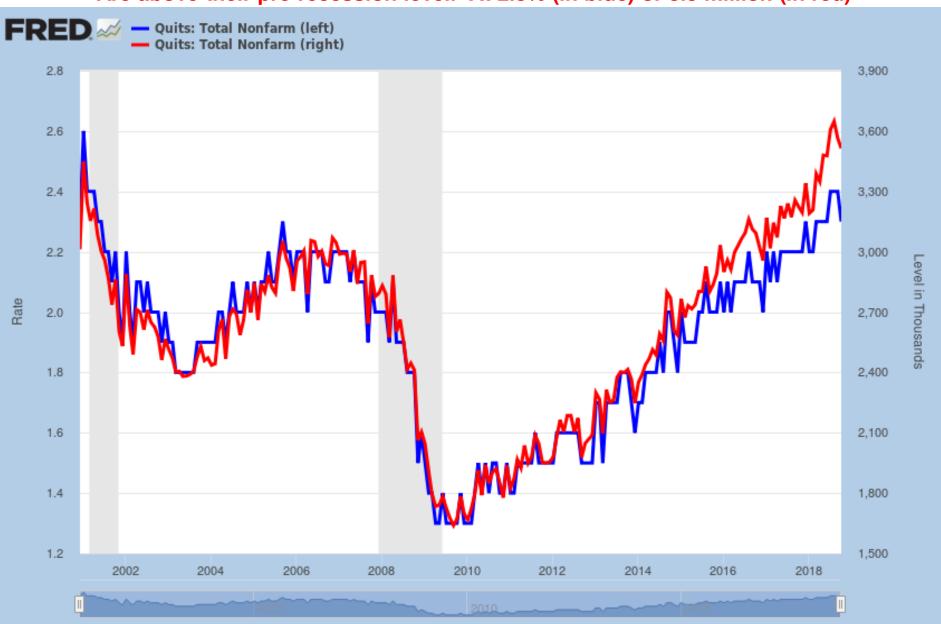
STEADY Labor Market Improvement: Involuntary Separation

Long Term Trends: 1967-2017 Initial claims below 300K for 200 straight weeks!



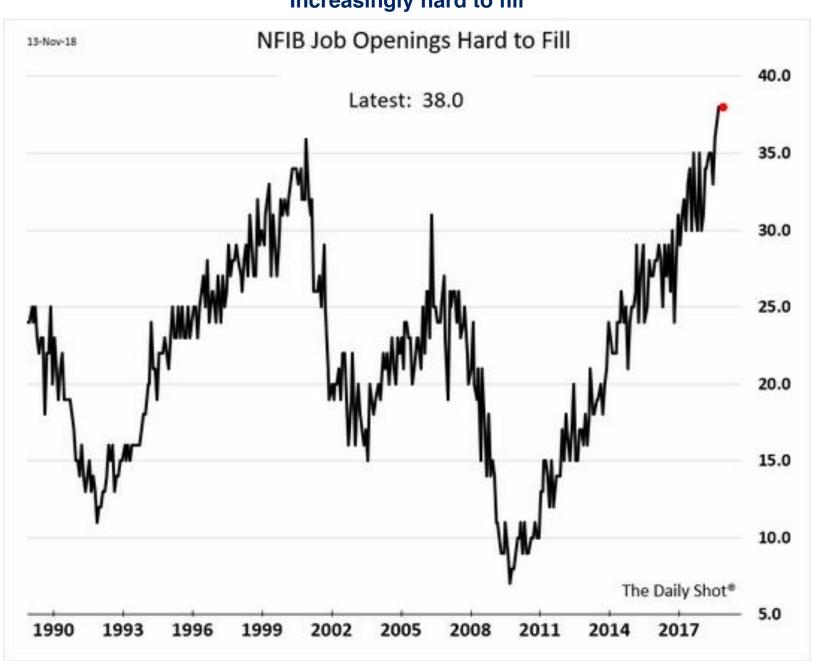
Quits, No matter How Measured Are Superb

Are above their pre-recession level. At 2.3% (in blue) or 3.5 million (in red)



Job Openings are Hard to Fill

Increasingly hard to fill

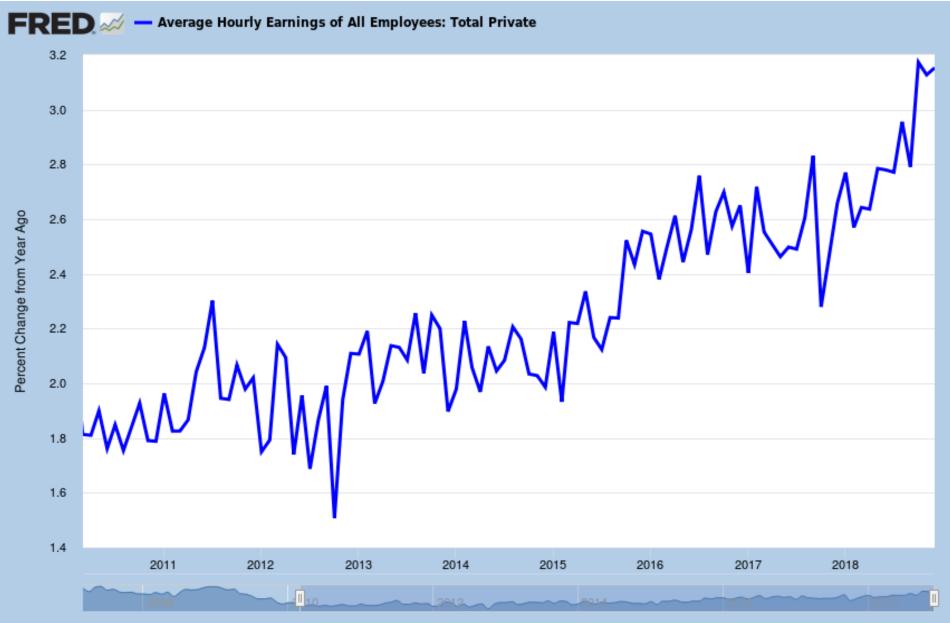


Wage Growth is Slowly Rising



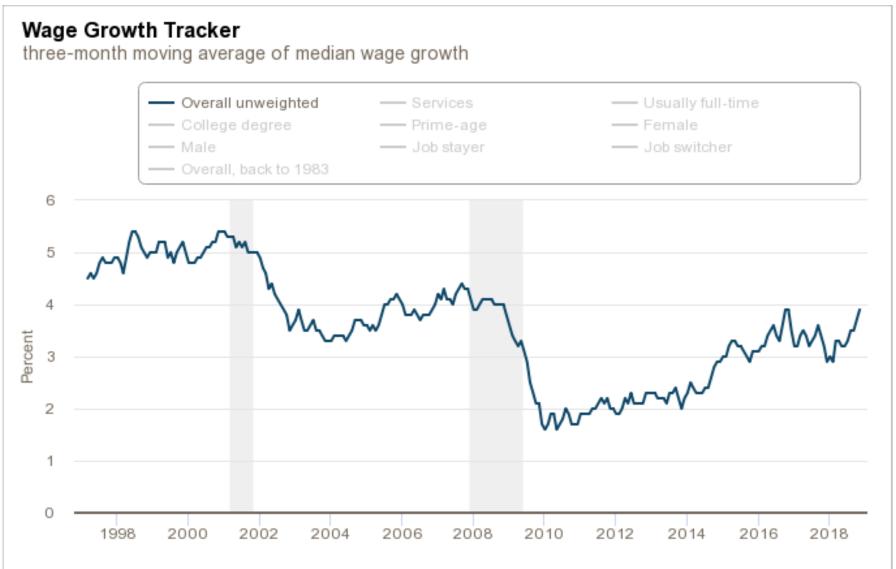
Y-o-Y Percent Change in Hourly Earnings

Despite a very low unemployment rate, wages growth is relatively weak



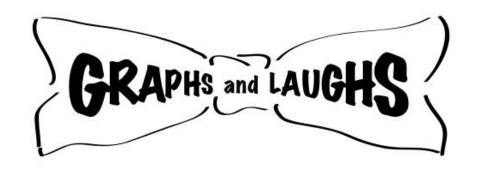
Changes in Median Wage Growth Looks OK!

Looks only at those continuously full-time employed



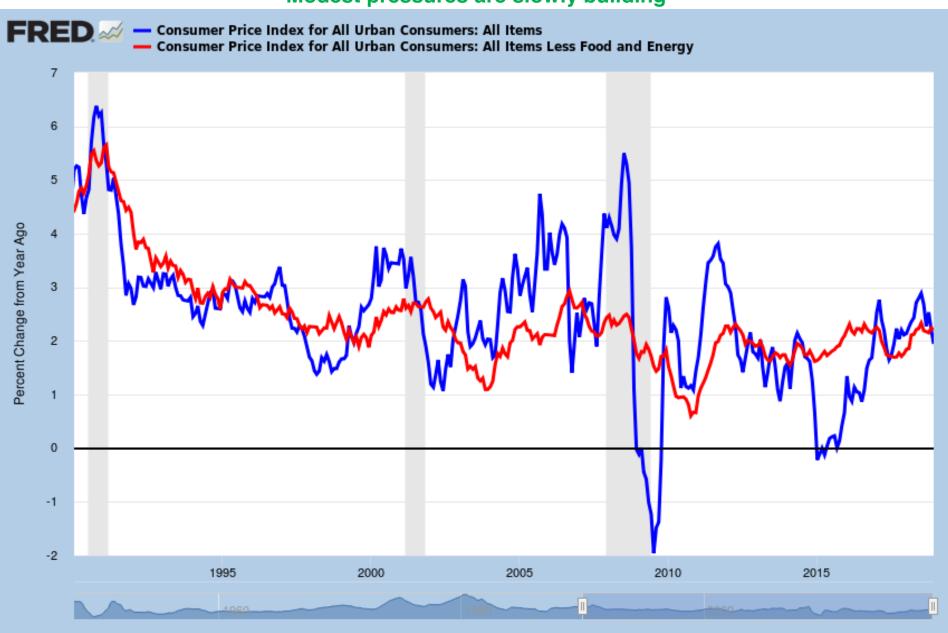
Sources: Current Population Survey, Bureau of Labor Statistics and author's calculations

Inflation? It's Sorta MIA!



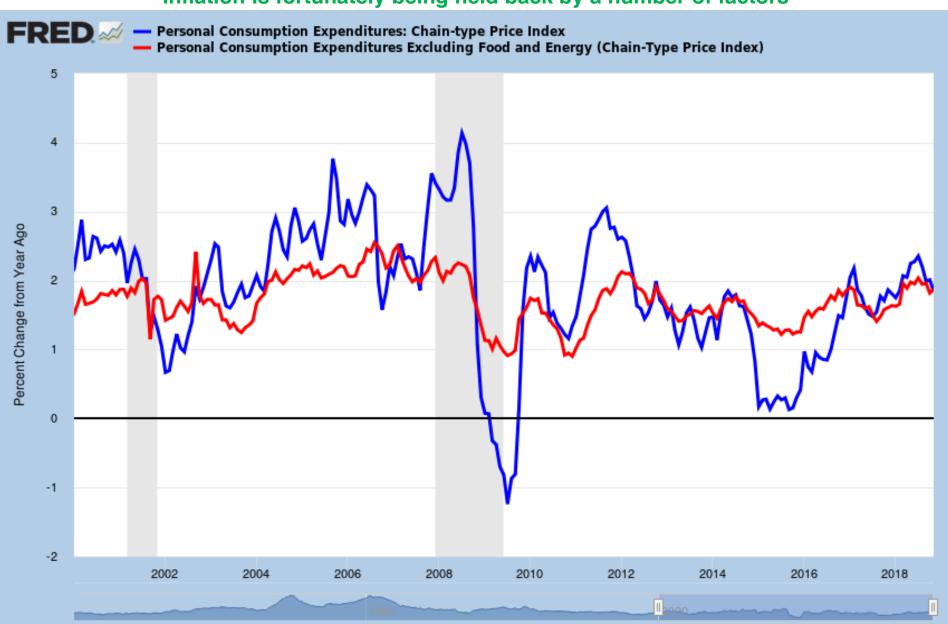
CPI: Inflationary Pressures are Rising

Modest pressures are slowly building



Core PCE Price Index

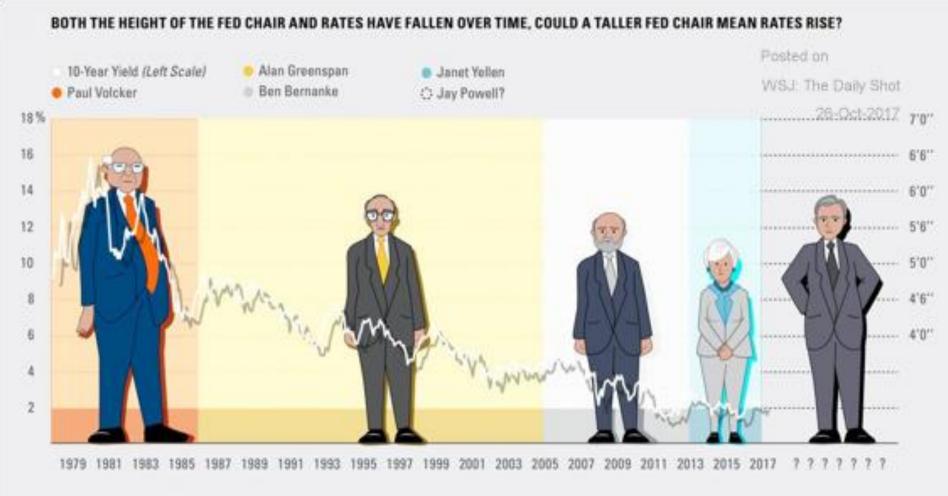
Inflation is fortunately being held back by a number of factors



Federal Reserve Behavior

Rates Will Rise. But, How Fast?

Taller Fed Chair, Higher Rates?



Source: LPL Research, Bloomberg 10/22/17

We don't actually believe that interest rates are determined by the height of the Fed chair, but it has been an interesting coincidence.

Federal Reserve Behavior

Most optimistic scenario

Fed funds is currently 2.375%

• 12/31/19: 2.875% 10-yr Treasury @ 3.35%

12/31/20: 3.125% 10-yr Treasury @ 3.45%

• 12/31/21: 2.875% 10-yr Treasury @ 3.35%

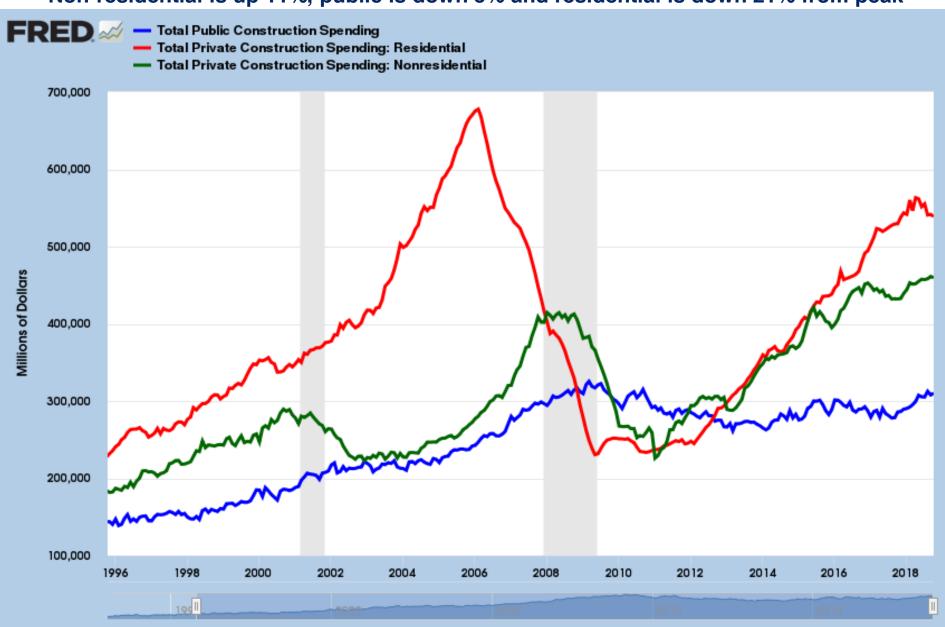
Balance sheet keeps shrinking.

New Housing? Not enough is being built!



Residential Fixed Investment Stalls

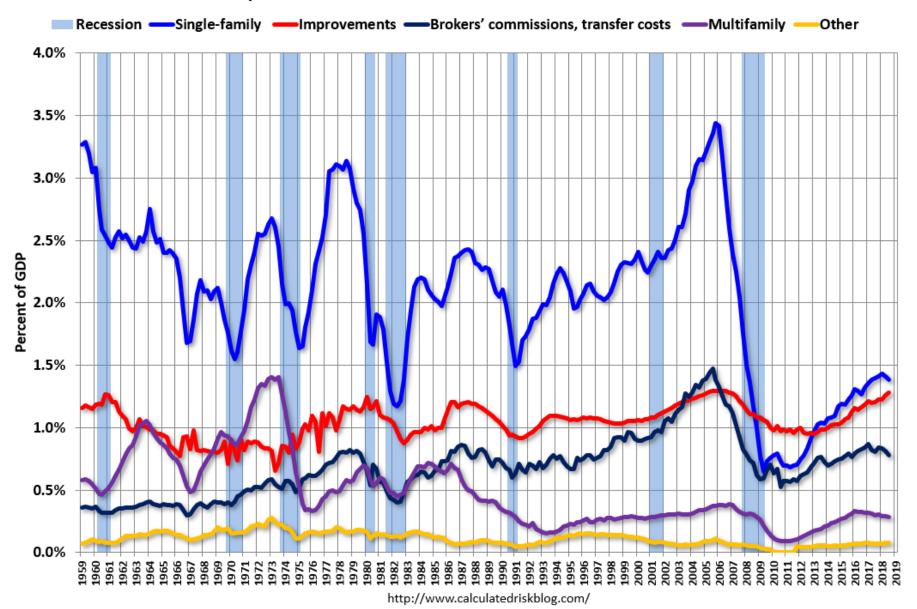
Non-residential is up 11%, public is down 5% and residential is down 21% from peak



Housing Recovery Is Stalling

Single family is what is lagging. Other components have largely recovered.

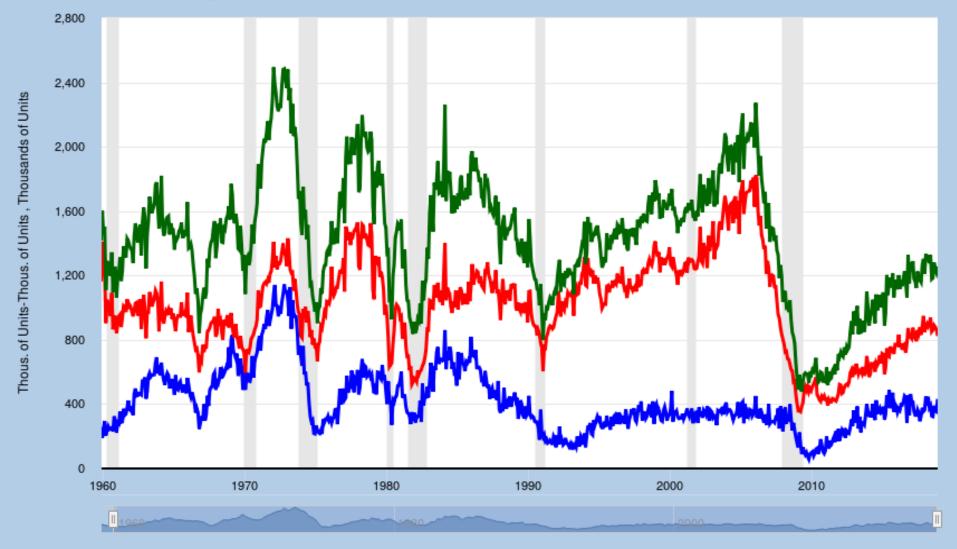
Components of Residential Investment as Percent of GDP



Single-Family and Multifamily Starts — A Slow Recovery Lack of lots, rising rates, high prices, SF remains near recessionary lows

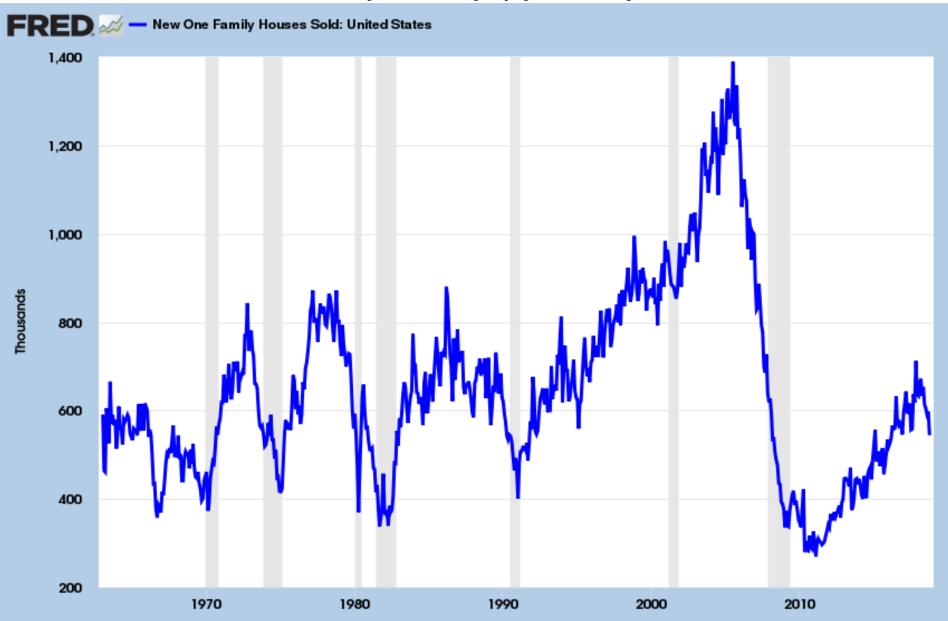


- Housing Starts: Total: New Privately Owned Housing Units Started-Privately Owned Housing Starts: 1-Unit Structures
- Privately Owned Housing Starts: 1-Unit Structures
- Housing Starts: Total: New Privately Owned Housing Units Started



New Home Sales Were Rising Till Recently

Now they are barely up year-over-year

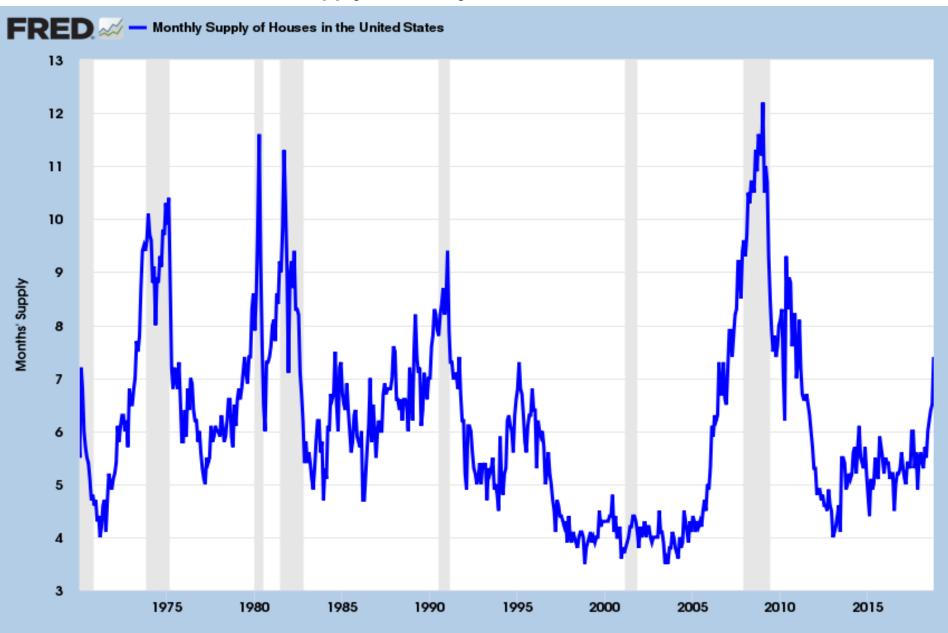


Shaded areas indicate U.S. recessions

Source: U.S. Bureau of the Census

Yikes! New Home Inventory is Skyrocketing

Six months supply is healthy. It's now above seven months



Shaded areas indicate U.S. recessions

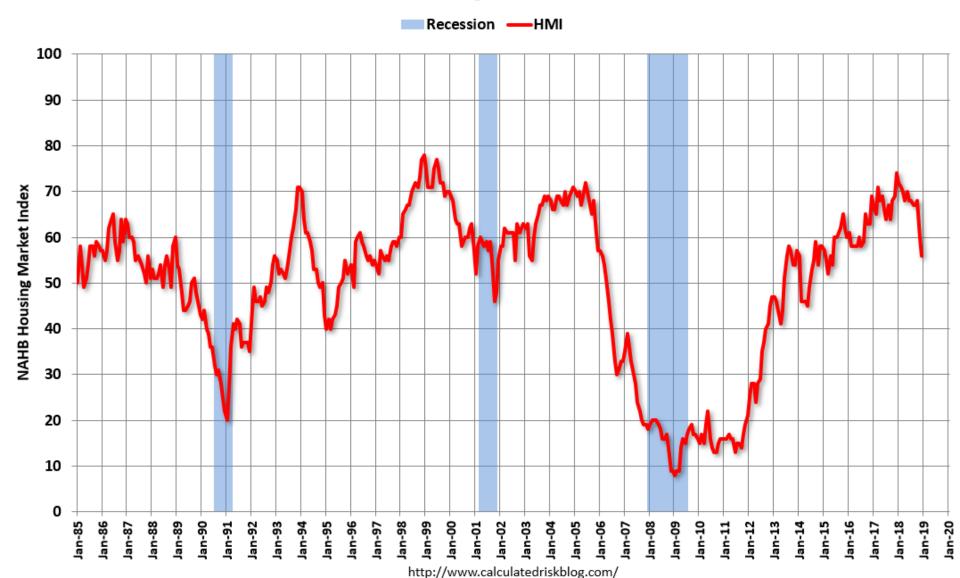
Source: U.S. Bureau of the Census

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Builders Are Getting Nervous

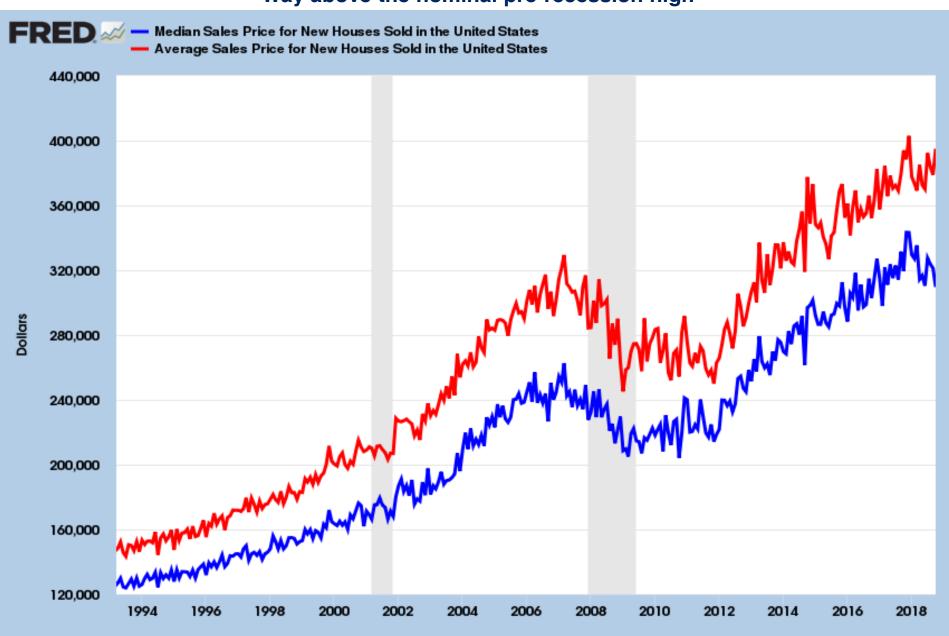
Builder happiness is rapidly declining

NAHB Housing Market Index



New Home Prices Are Too High, But Slowing Growth

Way above the nominal pre-recession high



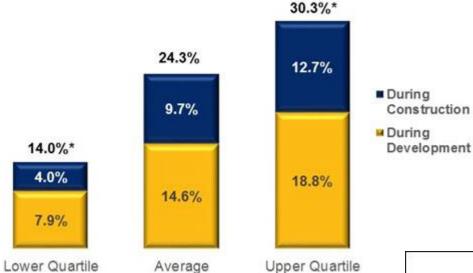
Source: U.S. Bureau of the Census

myf.red/g/mesV

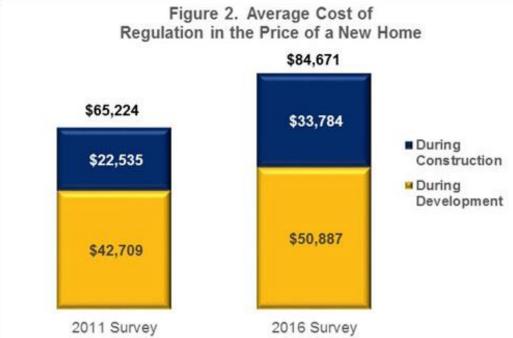
Shaded areas indicate U.S. recessions

New Home Prices Are Too High Due to Regulation

Figure 1. Regulatory Costs as a Share of Home Price



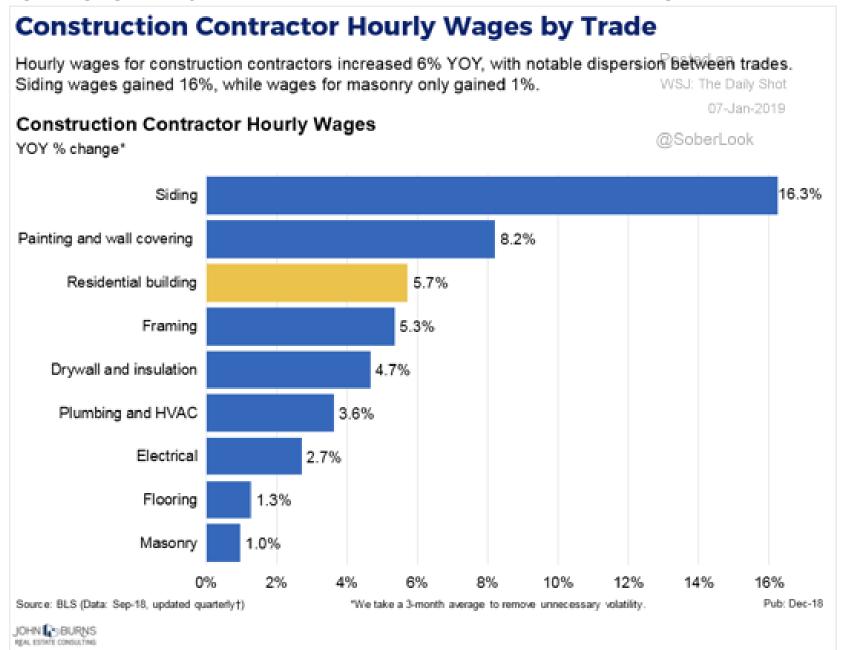
^{*} For quartiles, construction and development costs do not sum to the total. Source: NAHB/Wells Fargo HMI survey, assumptions described in the Appendix.



Based on average new home price one month before the NAHB/Wells Fargo HMI surveys Source for avgerage new home prices: New Residential Sales, U.S. Census Bureau.:

Construction Workers are in Serious Short Supply

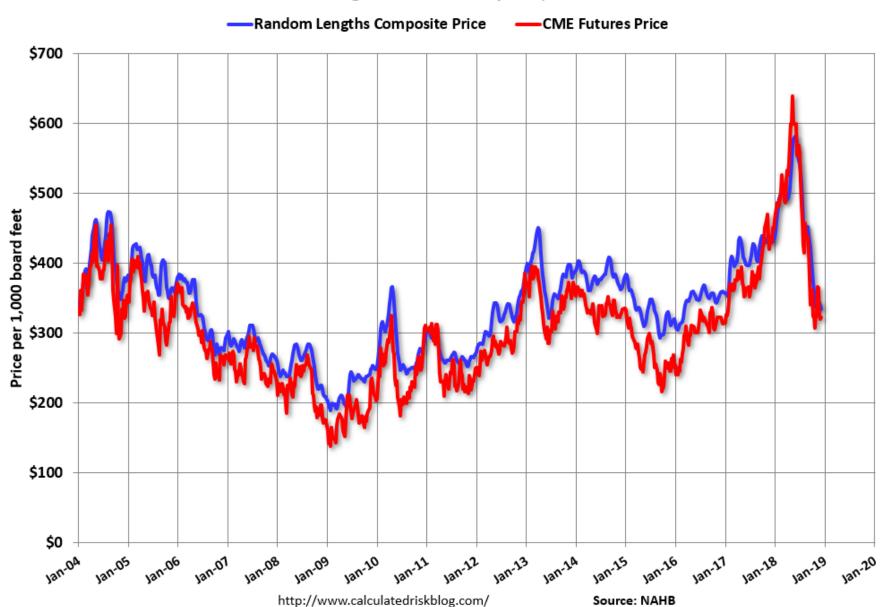
Average wage growth/year for construction workers is 5.7%, much higher than the average



Input Costs Were Way Up due to Policy and China

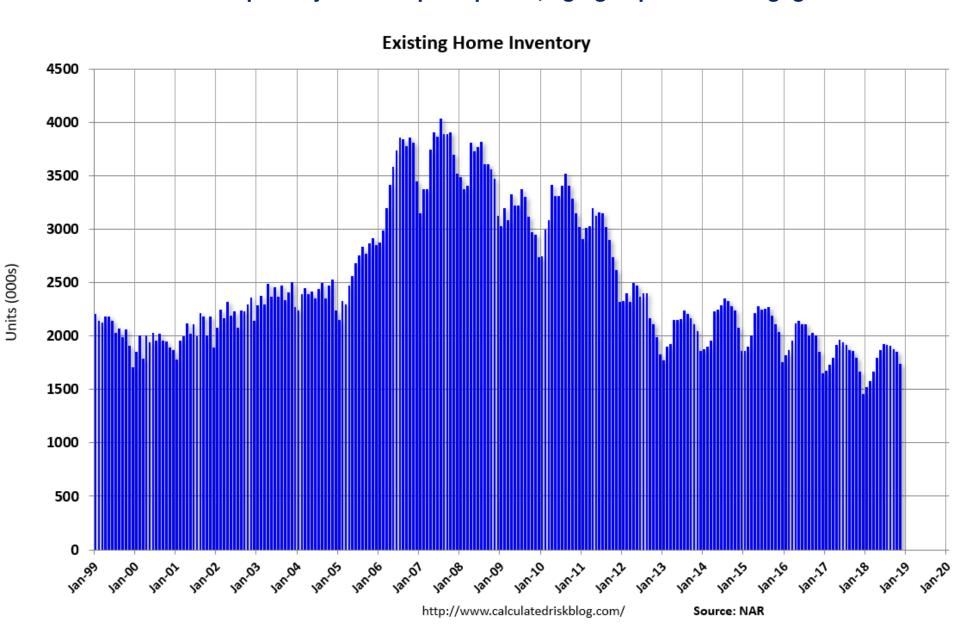
Prices are down 22% to 25% Y-o-Y. Tariffs, wildfires, who cares!

Framing Lumber Prices per 1,000 board feet



Has Existing Inventory Bottomed?

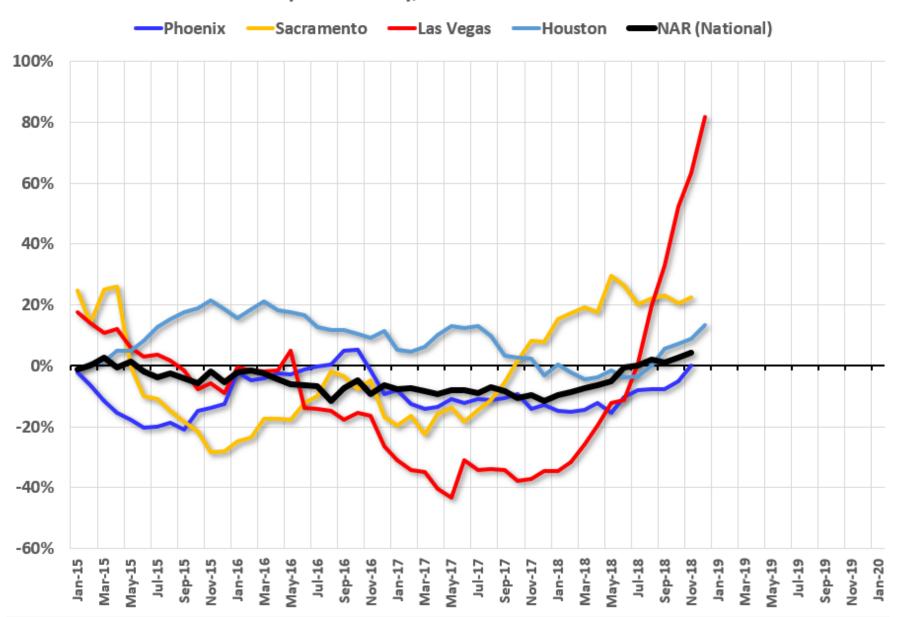
Inventory's up 4.2% Y-o-Y! 4th consecutive month of growth and biggest rise since late 2014 Rental conversions especially at lower price points, aging in place & mortgage lock-in hurt



Has Inventory Bottomed?

It looks like it hit bottom in mid-2018

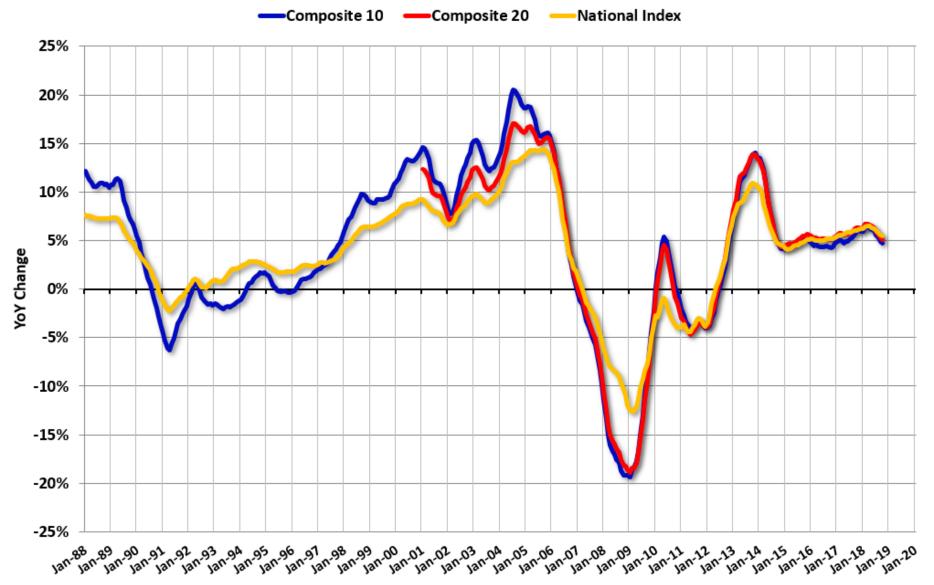
Year-over-year Inventory, National and Four Local Markets



Price Growth Appears to be Topping

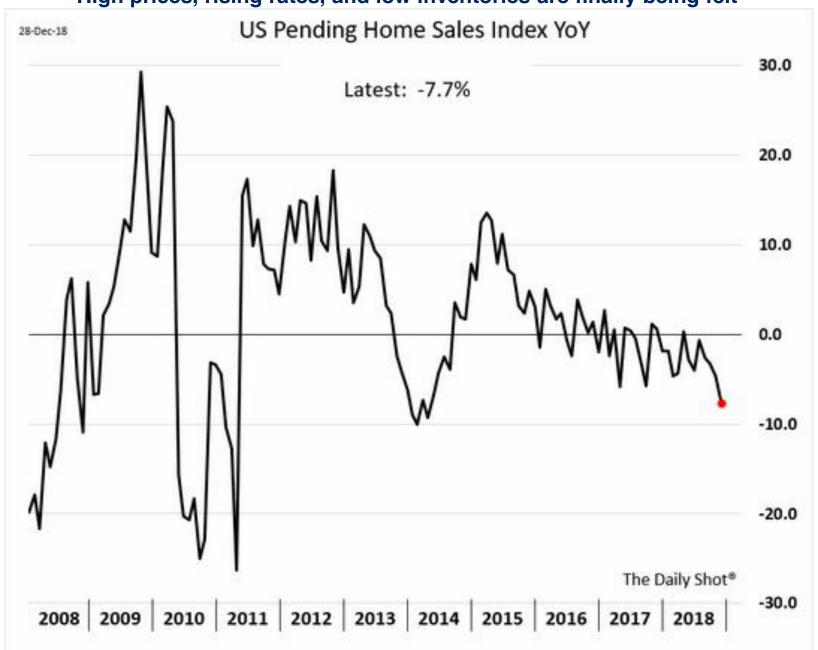
Prices rise faster than wages! Y-o-Y prices up 4.7%, 5.1% or 5.5% depending on the measure

Case-Shiller National and Composite Indices SA, Year-over-year Change



Pending Home Sales Decline

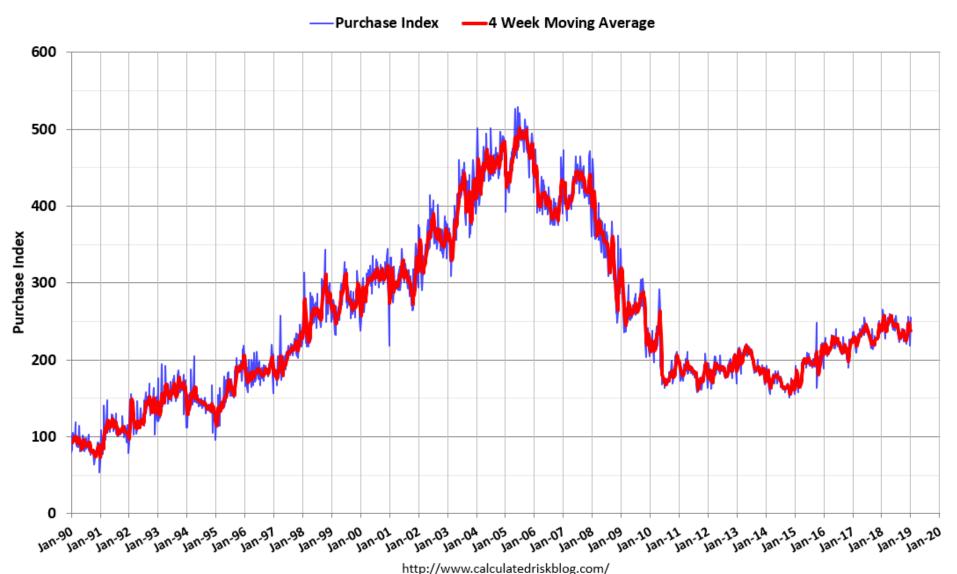
High prices, rising rates, and low inventories are finally being felt



MBA Mortgage Purchase Apps Flatten

1st time applications are up 4% Y-o-Y, at level of the late 1990s! 2019 purchase volume looks to be \$1.2 trillion, unchanged from 2018

MBA Purchase Applications Index



Existing Home Sales Have Plateaued

Regrettably this is occurring while the economy rocks!

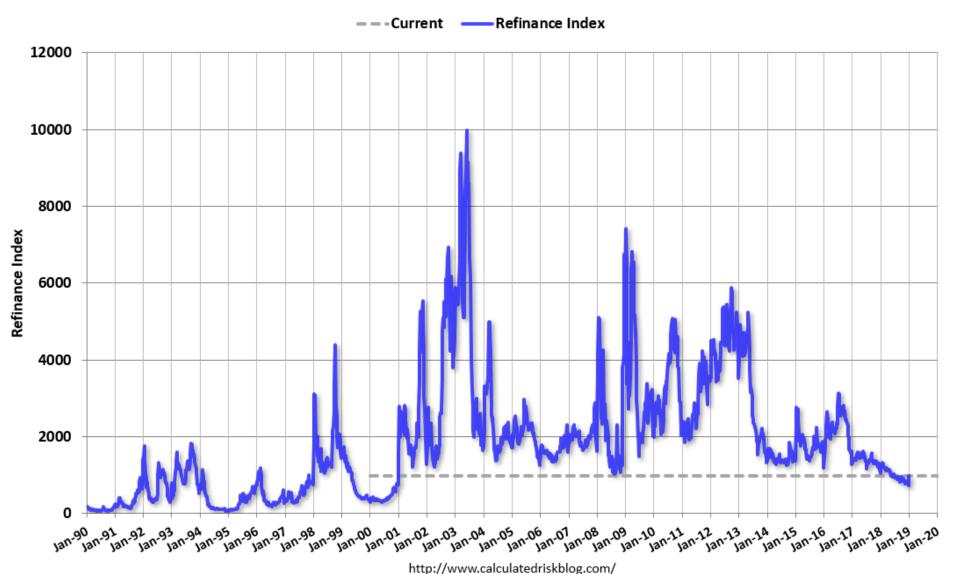
Existing Home Sales (SAAR)

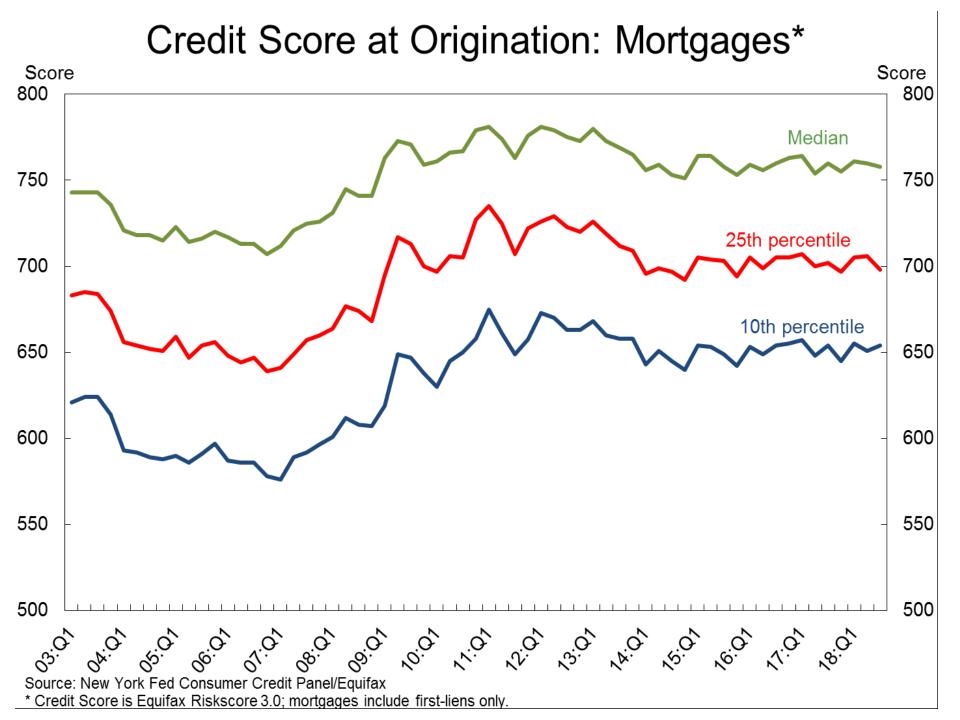


Refinance Activity Keeps Declining!

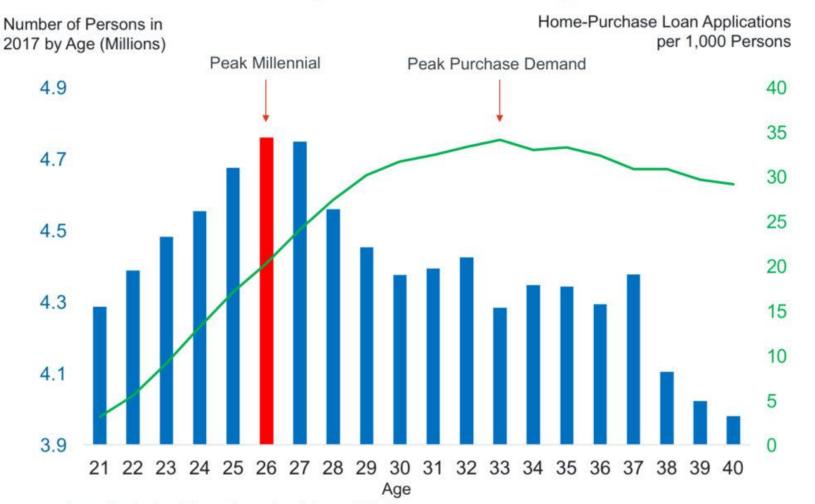
2019 refi activity falls to \$400 billion from \$460 in 2018 and \$600 in 2017. Ouch

MBA Refinance Applications Index





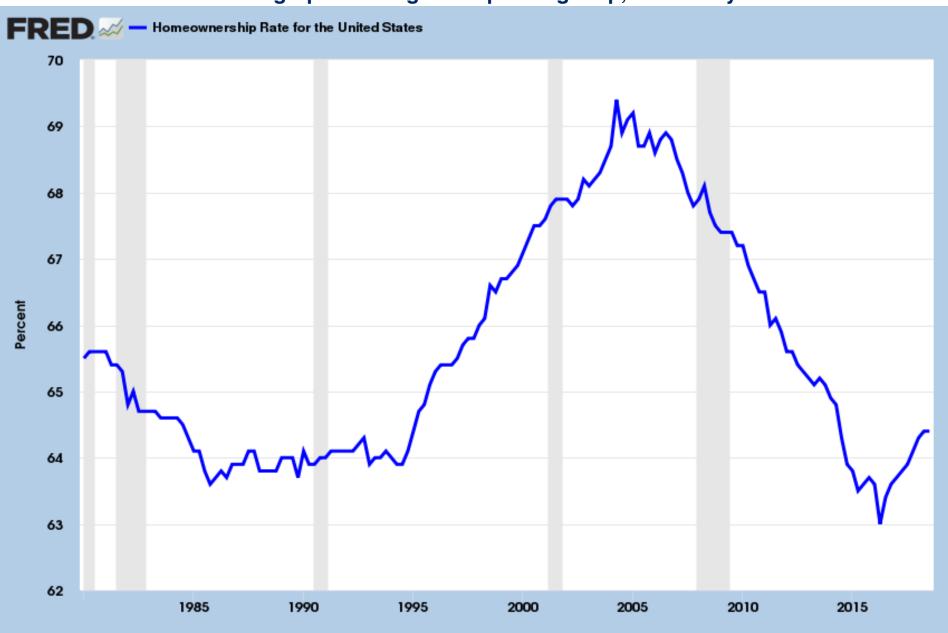
Millennials Will Keep This Issue Front and Center Beginning to approach the Peak. Chase Millennials, move-up buyers and Boomers



Source: CoreLogic and Census Bureau (population as of July 1)

The U.S. Home Ownership Rate is Rising

Demographic changes are pushing it up, but slowly



Source: U.S. Bureau of the Census

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Shaded areas indicate U.S. recessions

ANY QUESTIONS?

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Thank **YOU** all very very much!

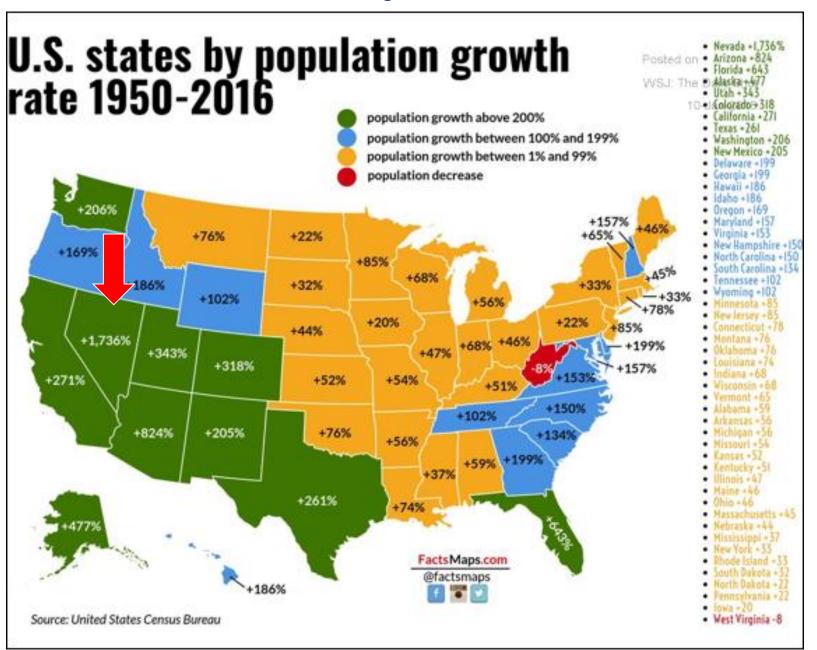
@ECON70



What About Things Here?

Population Growth by State 1950 to Present

The west grows fastest!



States With Fastest % Growth 7/1/17-6/30/18

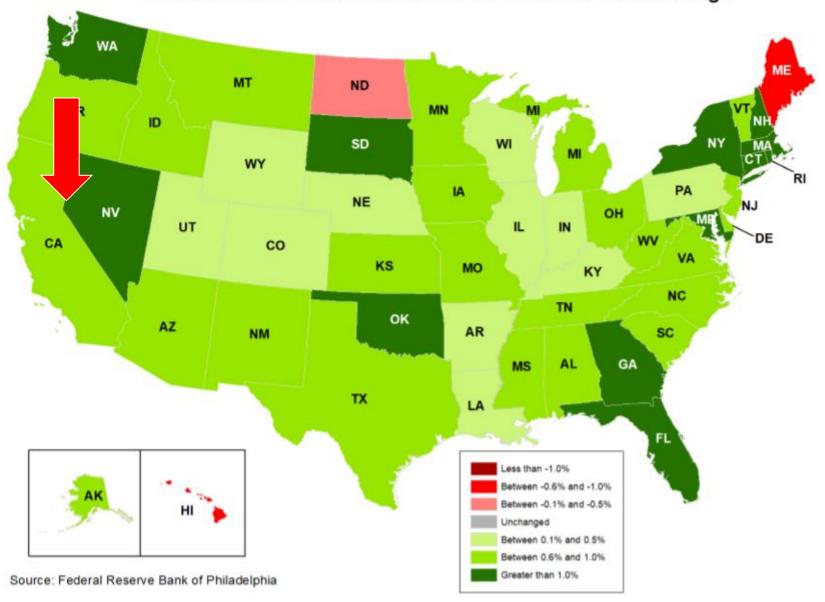
Rank Name		2010	2017	2018	Percent growth
1	Nevada	2,700,679	2,972,405	3,034,392	2.1
2	Idaho	1,567,657	1,718,904	1,754,208	2.1
3	Utah	2,763,891	3,103,118	3,161,105	1.9
4	Arizona	6,392,288	7,048,876	7,171,646	1.7
5	Florida	18,804,580	20,976,812	21,299,325	1.5
6	Washington	6,724,540	7,425,432	7,535,591	1.5
7	Colorado	5,029,316	5,615,902	5,695,564	1.4
8	Texas	25,146,114	28,322,717	28,701,845	1.3
9	South Carolina	4,625,381	5,021,219	5,084,127	1.3
10	North Carolina	9,535,736	10,270,800	10,383,620	1.1

States With Fastest Pop Growth 7/1/17-6/30/18

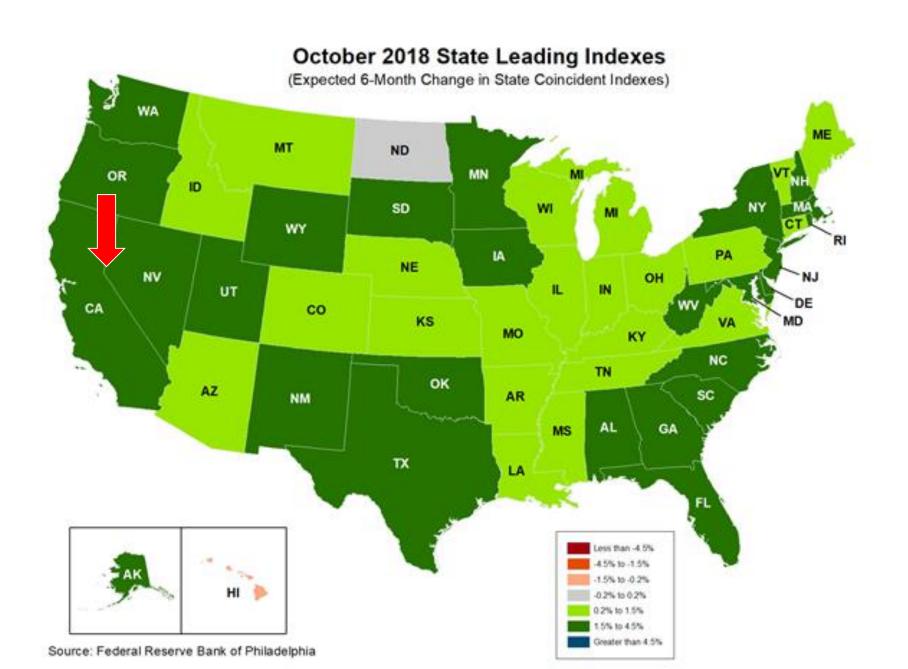
Rank	Name	2010	2017	2018	Numeric growth
1	Texas	25,146,114	28,322,717	28,701,845	379,128
2	Florida	18,804,580	20,976,812	21,299,325	322,513
3	California	37,254,523	39,399,349	39,557,045	157,696
4	Arizona	6,392,288	7,048,876	7,171,646	122,770
5	North Carolina	9,535,736	10,270,800	10,383,620	112,820
6	Washington	6,724,540	7,425,432	7,535,591	110,159
7	Georgia	9,688,709	10,413,055	10,519,475	106,420
8	Colorado	5,029,316	5,615,902	5,695,564	79,662
9	South Carolina	4,625,381	5,021,219	5,084,127	62,908
10	Nevada	2,700,679	2,972,405	3,034,392	61,987

Things Are Good Now

November 2018 State Coincident Indexes: Three-Month Change



The Future Looks Good Too!



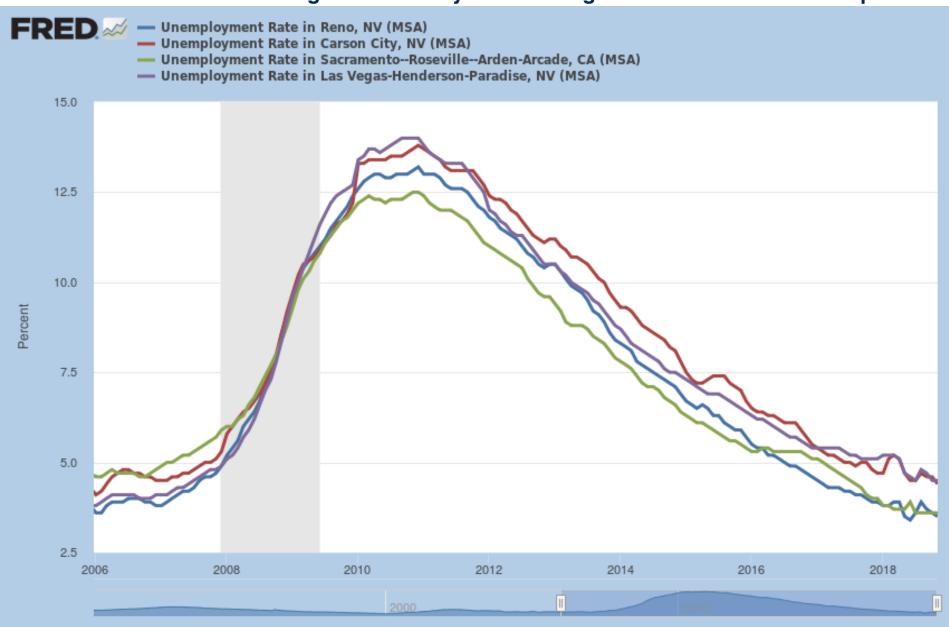
GDP for the Reno MSA

Has been rising since 2013, and broke above the 2006 peak in 2017



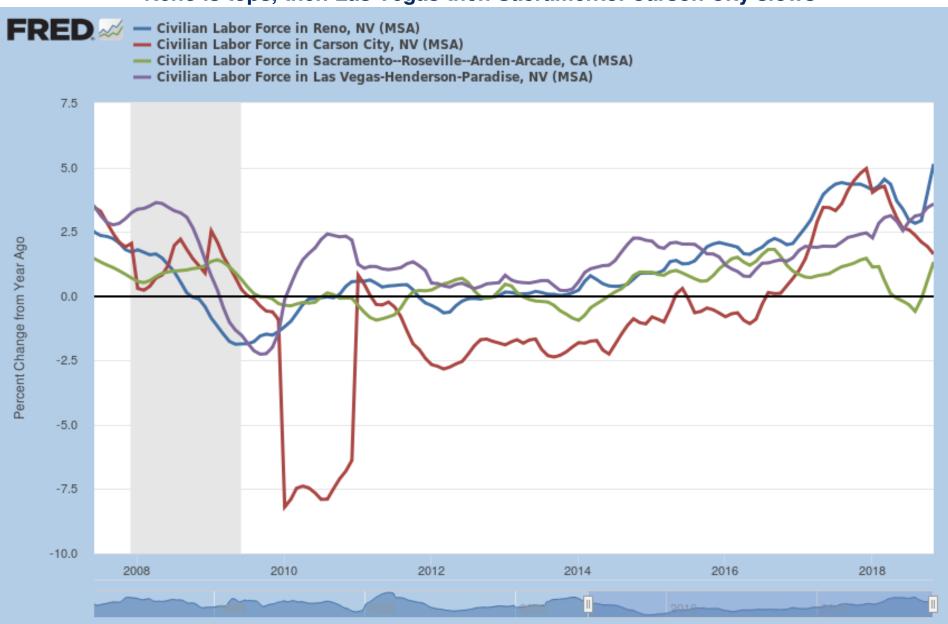
Unemployment Rates Around Lake Tahoe

Reno and Sac are above average. Carson City and Las Vegas are weaker. All have improved



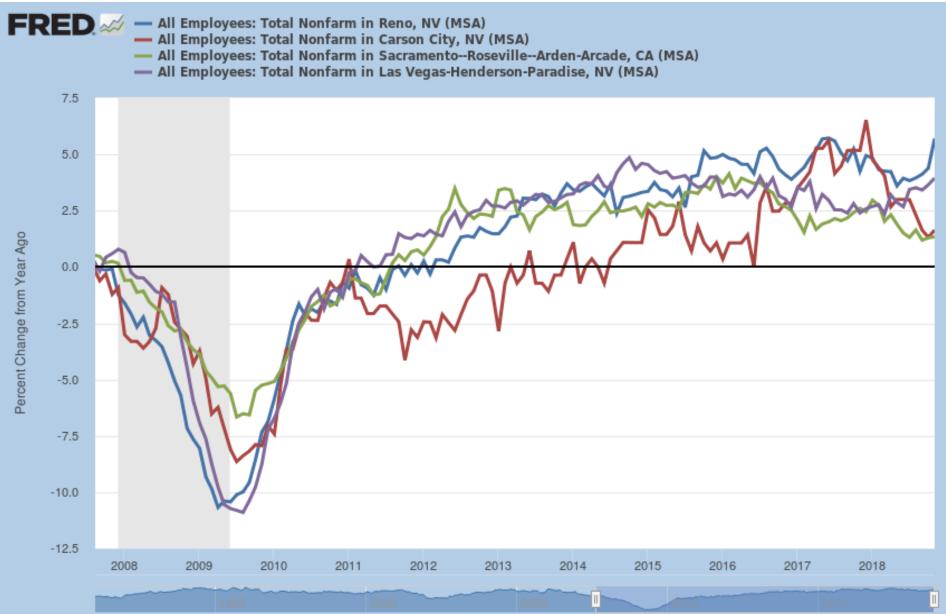
Labor Force Growth Rates Around Lake Tahoe

Reno is tops, then Las Vegas then Sacramento. Carson City slows



Employment Growth Rates In Nearby Cities

Las Vegas and Reno show strongest employment growth. Carson and Sac weaken

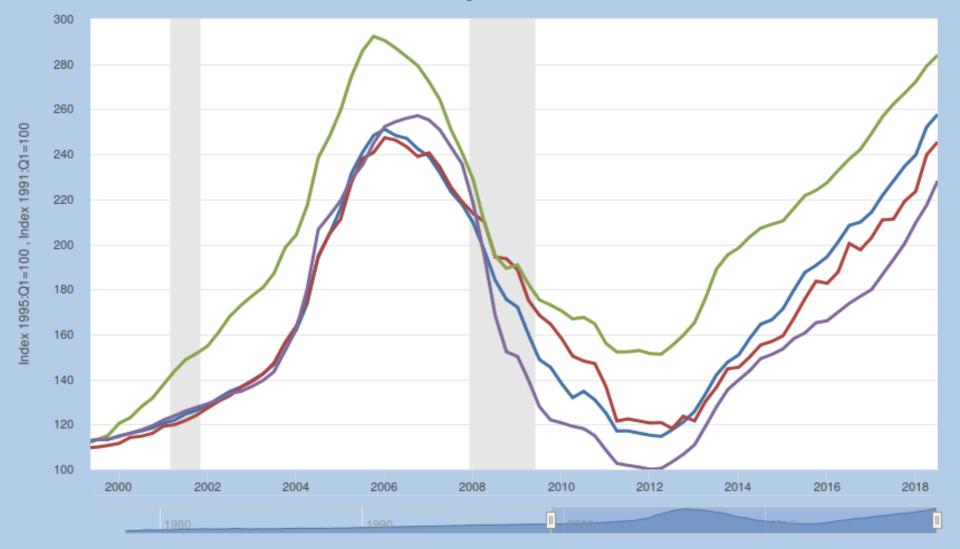


Housing Prices In Nearby Bigger Cities

All but Las Vegas have fully recovered. Housing is too expensive, again!

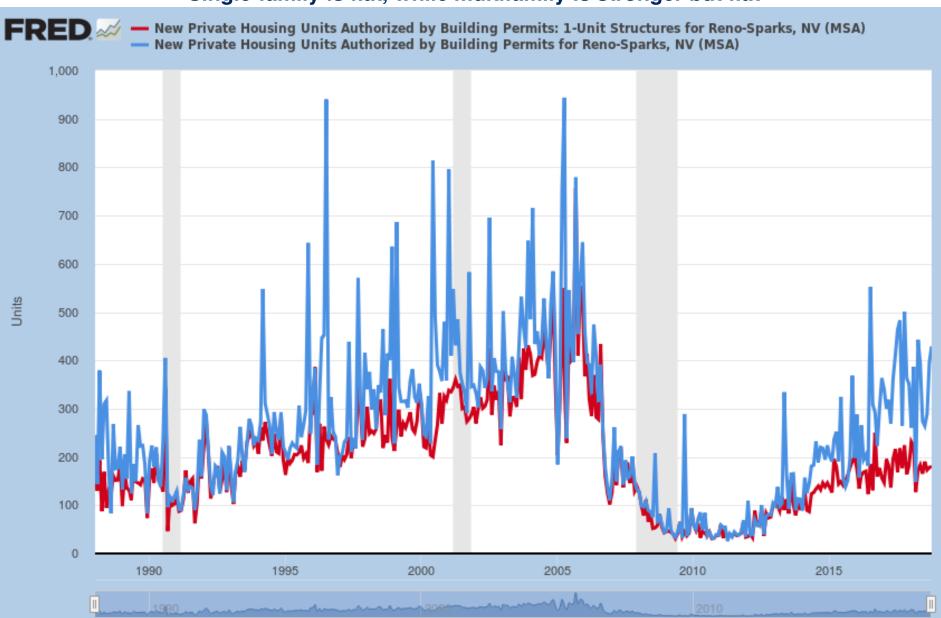


- All-Transactions House Price Index for Reno, NV (MSA)
- All-Transactions House Price Index for Carson City, NV (MSA)
- All-Transactions House Price Index for Sacramento-Roseville-Arden-Arcade, CA (MSA)
- All-Transactions House Price Index for Las Vegas-Henderson-Paradise, NV (MSA)



Housing Starts in Reno-Sparks

Single-family is flat, while multifamily is stronger but flat



ANY QUESTIONS?

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