ECONOMICS 20/20: GROWING BUT SLOWING!

Presented by:

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November 12, 2019 Phoenixville, PA



The Economy is Slowing!

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



The Stock Market Is Doing Relatively Well

Despite numerous stressors



Shaded areas indicate U.S. recessions

Source: S&P Dow Jones Indices LLC

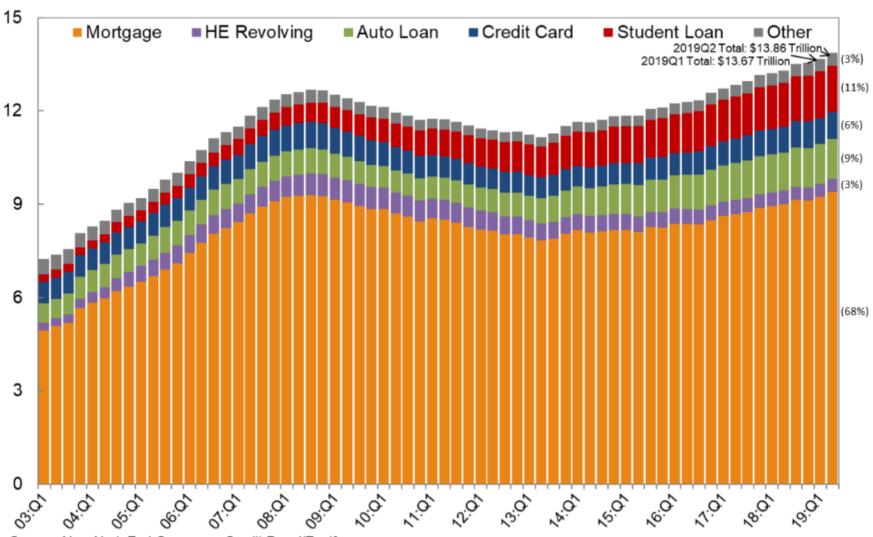
myf.red/g/ppff

Households Are Re-Leveraging

Mortgage debt remains slightly below the 2008 peak. Total debt is 6.9% higher

Total Debt Balance and its Composition

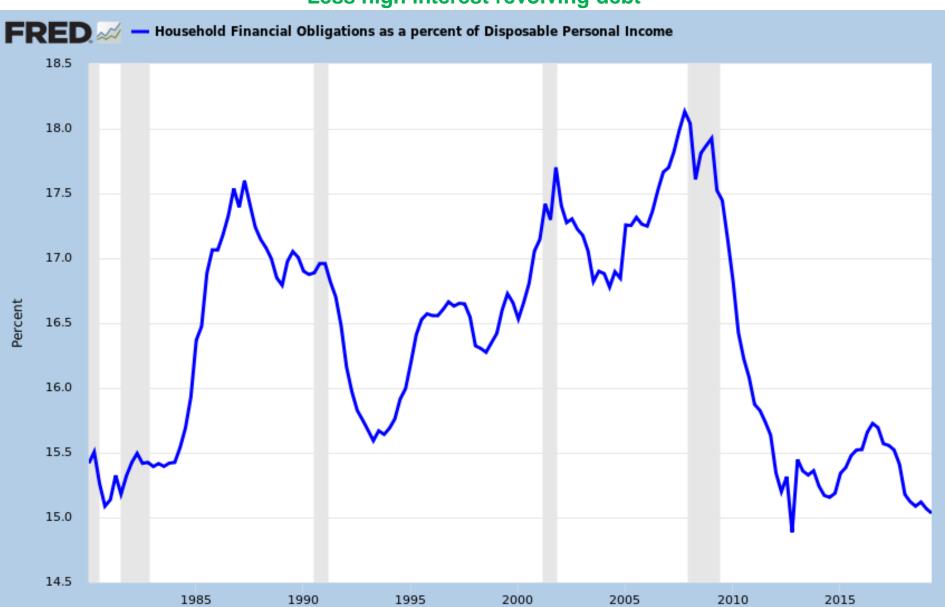
Trillions of Dollars



Source: New York Fed Consumer Credit Panel/Equifax

Households Balance Sheets Look Pretty Good

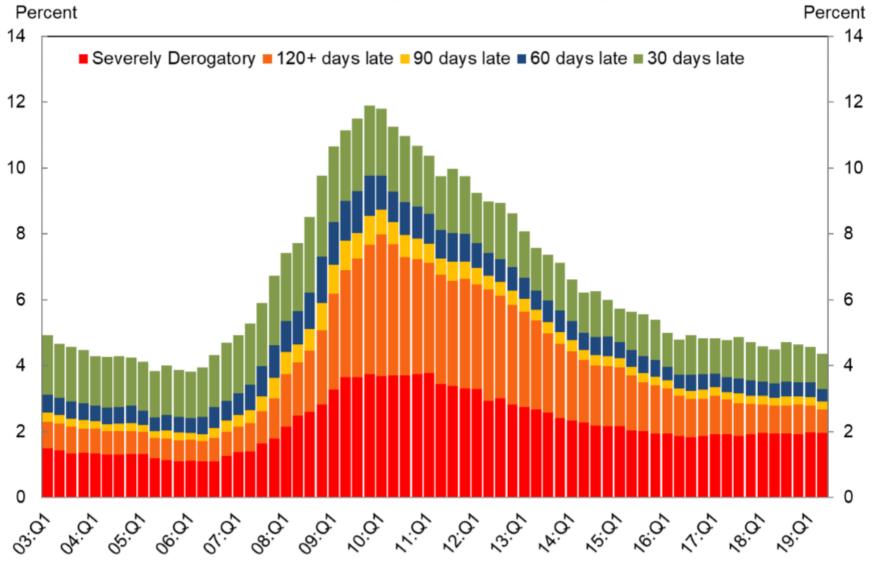
Less high interest revolving debt



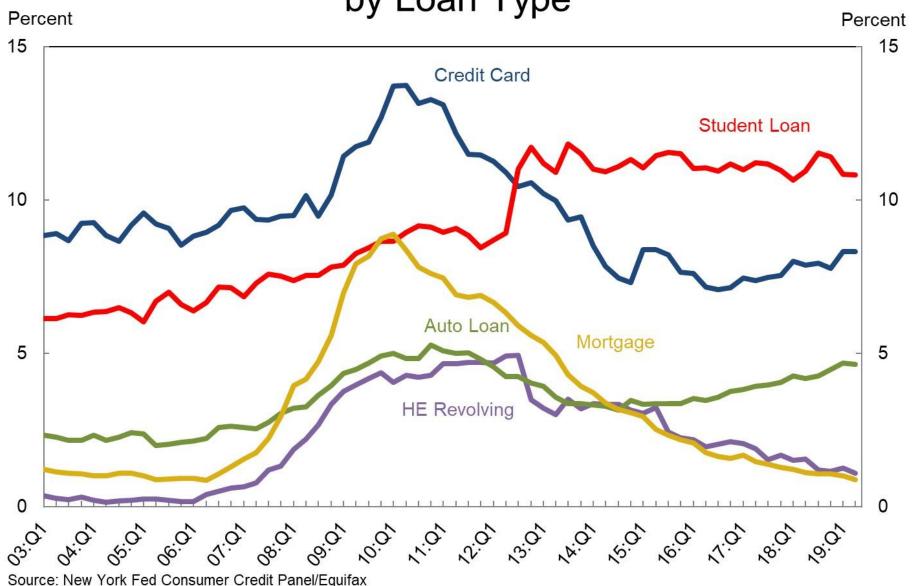
Total Delinquencies Rates Decline Slowly

Rise in credit cards and student loans delinquencies prevents the overall rate from falling

Total Balance by Delinquency Status



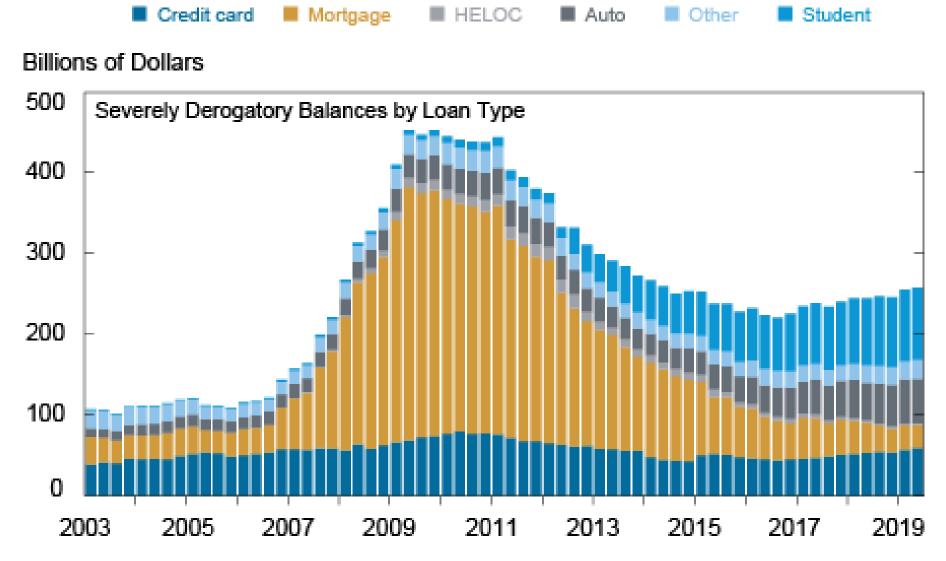
Percent of Balance 90+ Days Delinquent by Loan Type



Past Due Student Loans!

The amount is mushrooming

Student Loans Overtake Mortgage Debt in Severe Derogatories



Source: New York Fed Consumer Credit Panel/Equifax.

Consumer Confidence Has Recovered

Near the best level since December 2000!

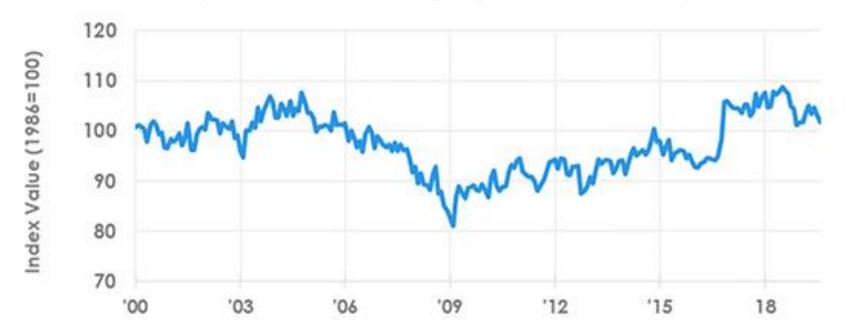


Small Business Confidence Remains Strong

Decline is reversing and it remains above long-term average of 98

Small Business Optimism Index at 101.8

Based on 10 survey indicators, seasonally adjusted, Jan. '00 – Sep. '19

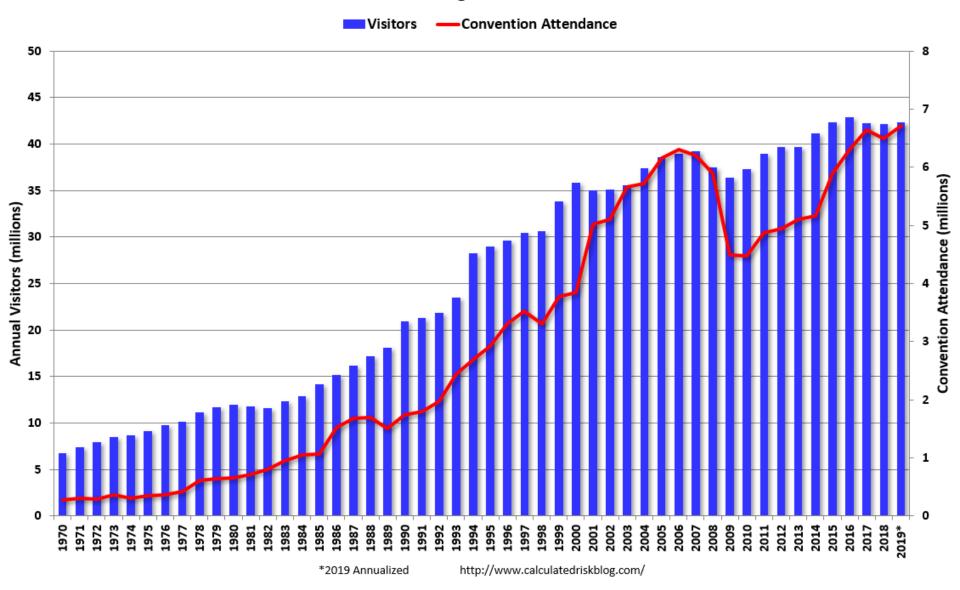




Las Vegas Attendance Is Flat

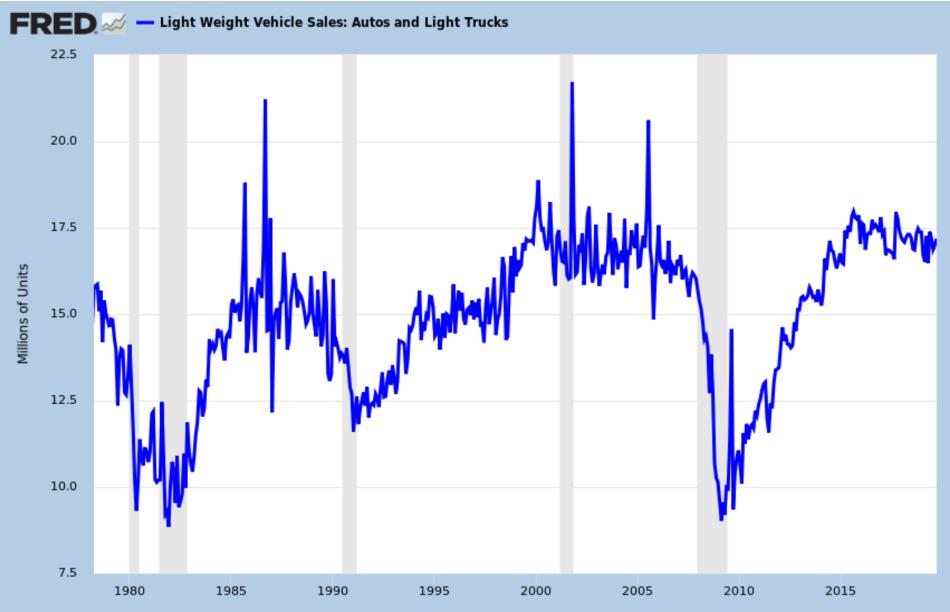
The gamblers and conventioneers are coming but not in record numbers





US Light Vehicle Sales Slow Slightly

First year since 2014 that 17 million units may not be sold



Shaded areas indicate U.S. recessions

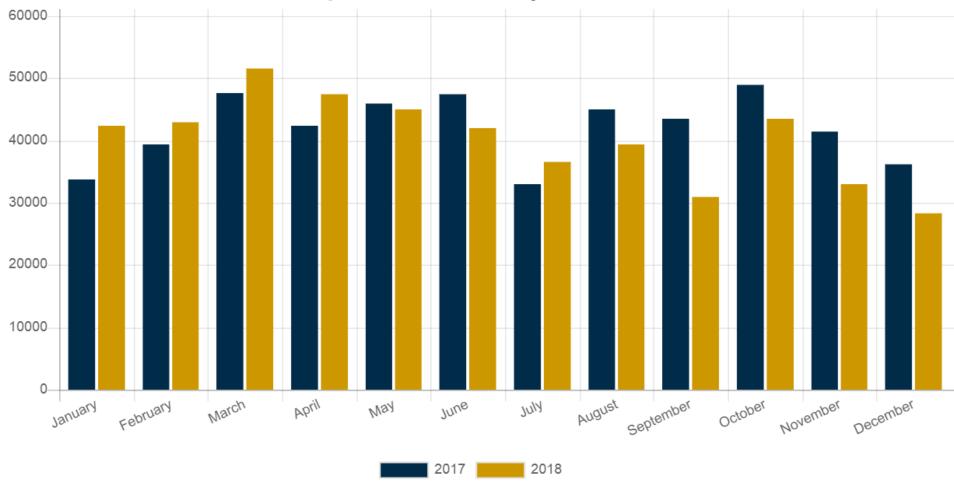
Source: U.S. Bureau of Economic Analysis

myf.red/g/ppfm

Let's Buy an RV!

Sales are now higher than ever

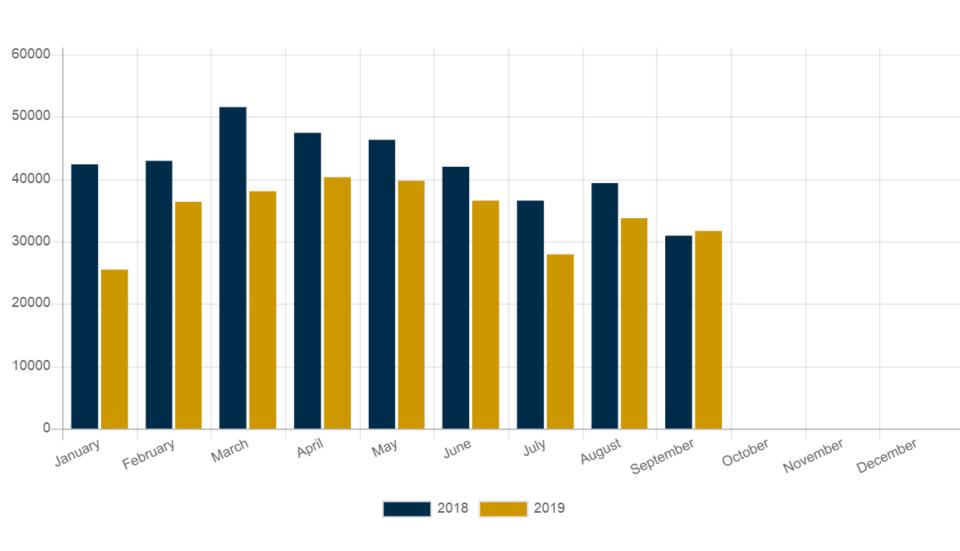
Total Shipments Monthly vs. Last Year



Let's Buy an RV, OK Maybe Not!

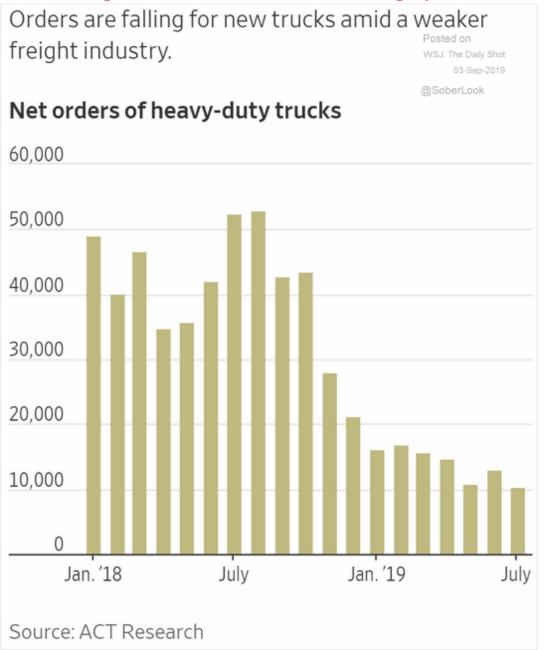
Sales keep slipping

Total Shipments Monthly vs. Last Year



US Heavy Truck Sales Collapse

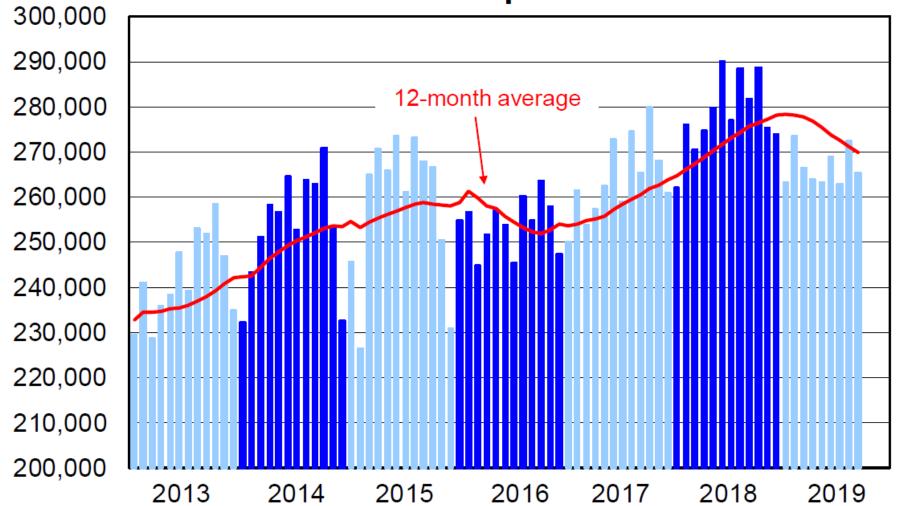
Gross Vehicle Weight > 7 tons. Down due to huge purchases last year



Container Traffic Slows Slightly

2018 was the best year ever. 2019 looks weaker due to less exports, flooding, trade disputes

Average Weekly U.S. Rail Intermodal Units: Jan. 2013 - Sept. 2019

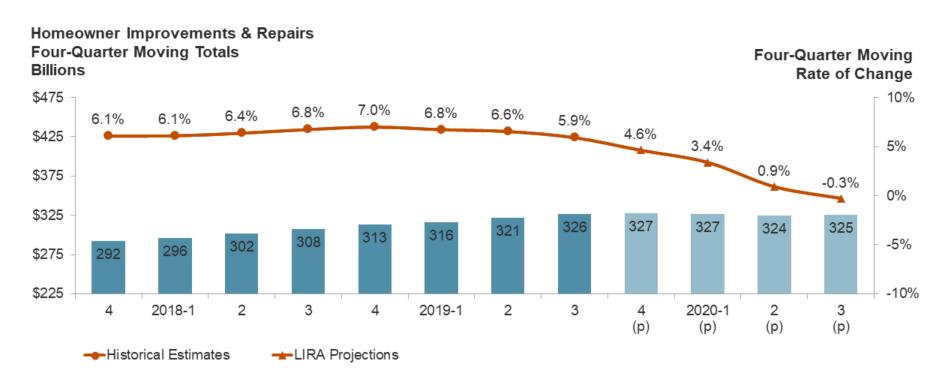


Data are average weekly originated containers and trailers for each month and do not include the U.S. operations of CN, CP, and GMXT. Source: AAR Rail Time Indicators

Housing Improvements & Repairs Rise Very Slowly

Homes are aging, rates are higher, home equity growth slows

Leading Indicator of Remodeling Activity – Third Quarter 2019

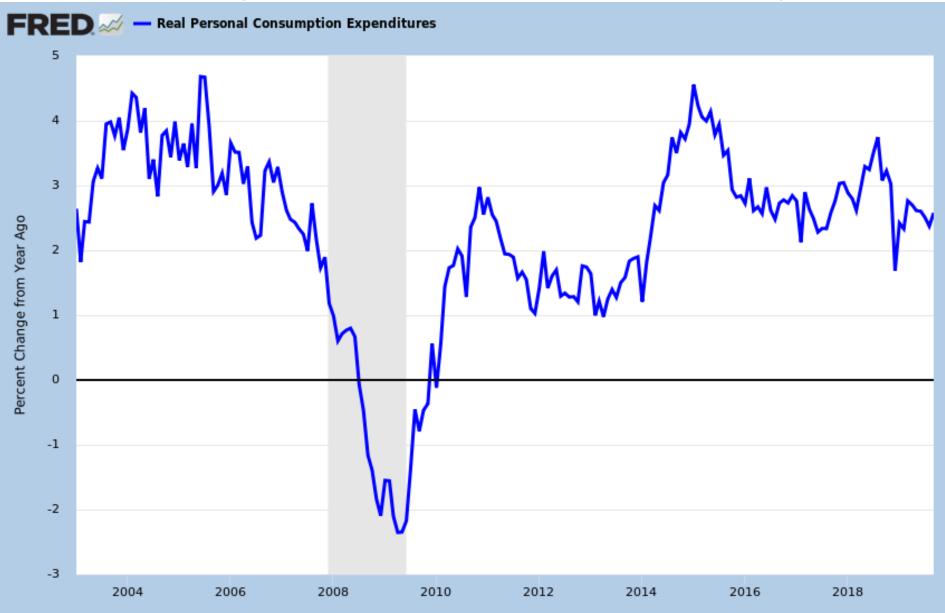


Note: Historical estimates since 2017 are produced using the LIRA model until American Housing Survey benchmark data become available.



Annual Y-o-Y Percent Change in PCE

A very solid growth rate of about 2.5%, but down from the amazing 2018



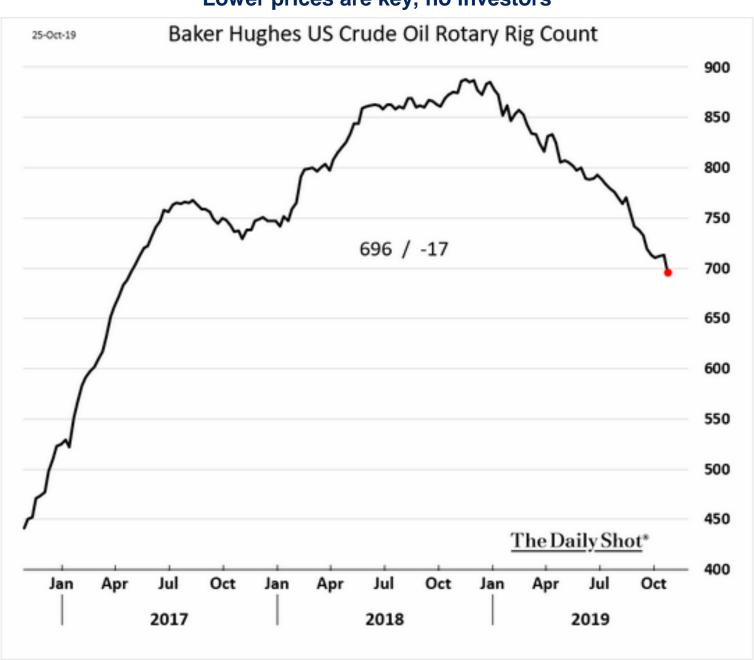
Shaded areas indicate U.S. recessions

Source: U.S. Bureau of Economic Analysis

myf.red/g/poZn

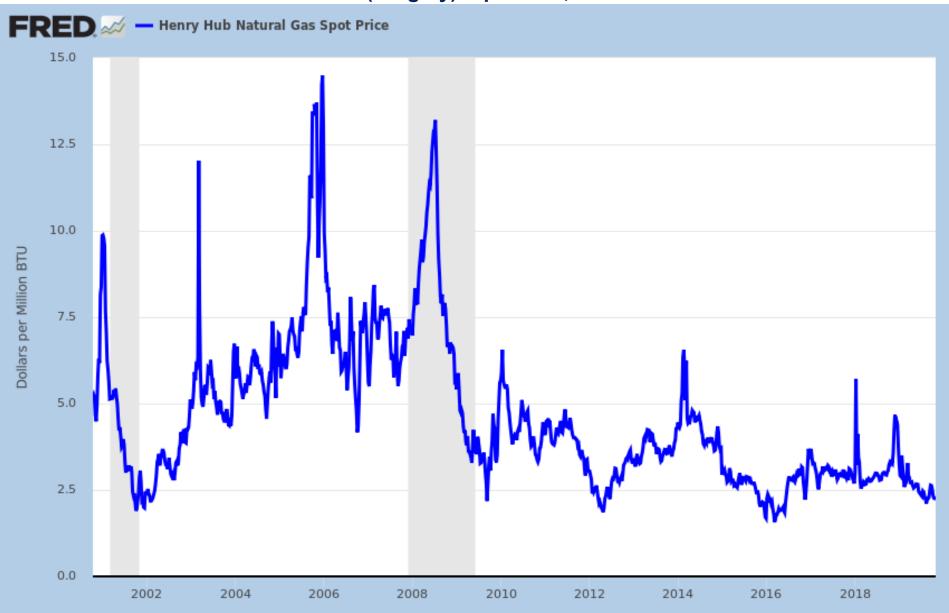
Rig Counts Decline Accelerates

Lower prices are key, no investors



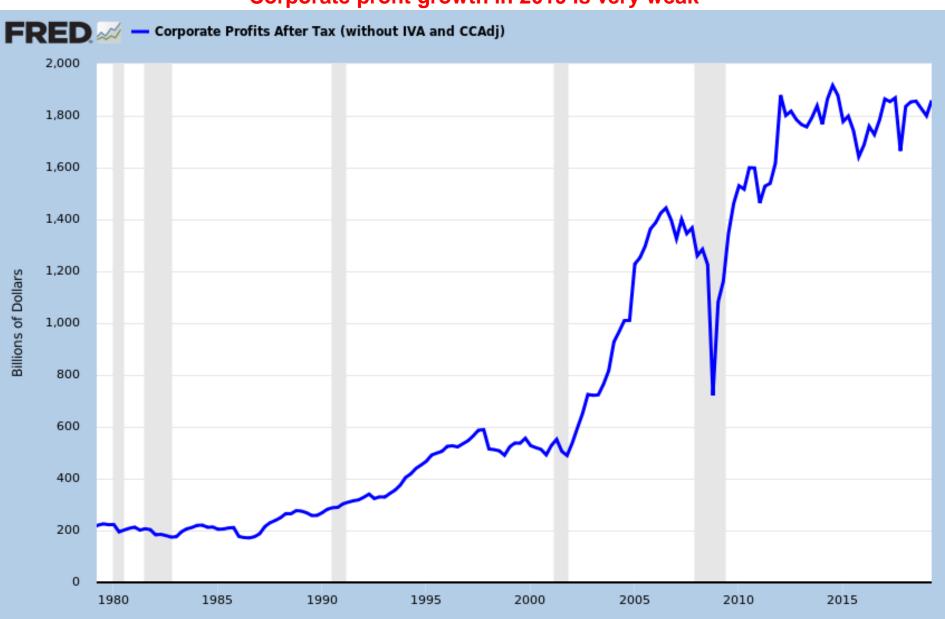
Natural Gas Prices are Very Low

One CF is (roughly) equal to 1,020 BTU's



Corporate Profits Flatten

Corporate profit growth in 2019 is very weak



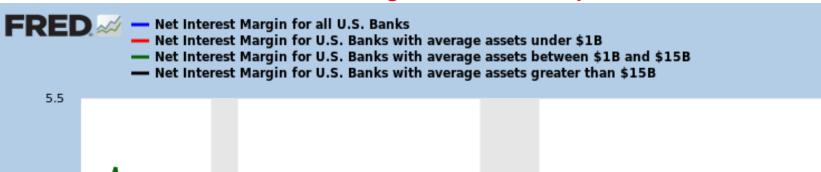
Shaded areas indicate U.S. recessions

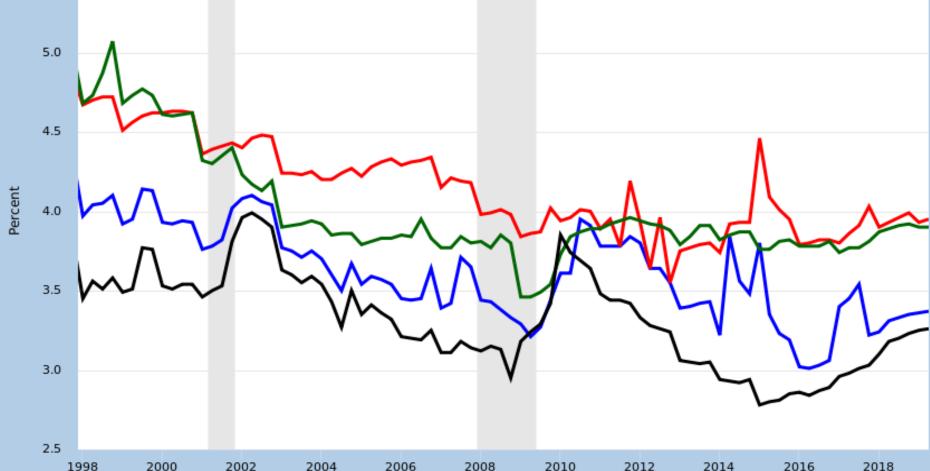
Source: U.S. Bureau of Economic Analysis

myf.red/g/oZM8

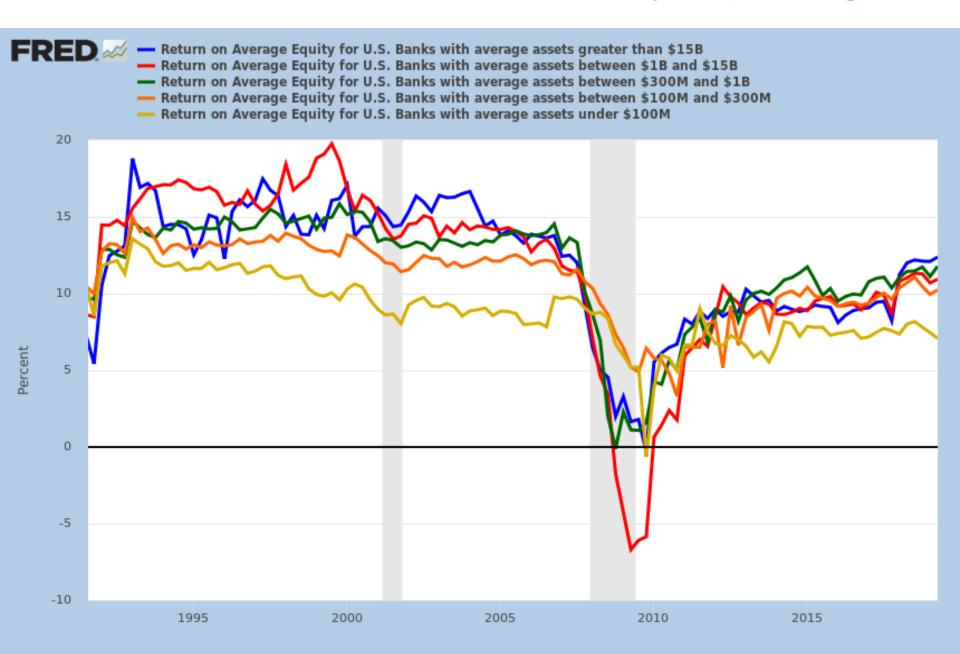
Bank Net Interest Margins Are Flattening

Rising interest rates helped



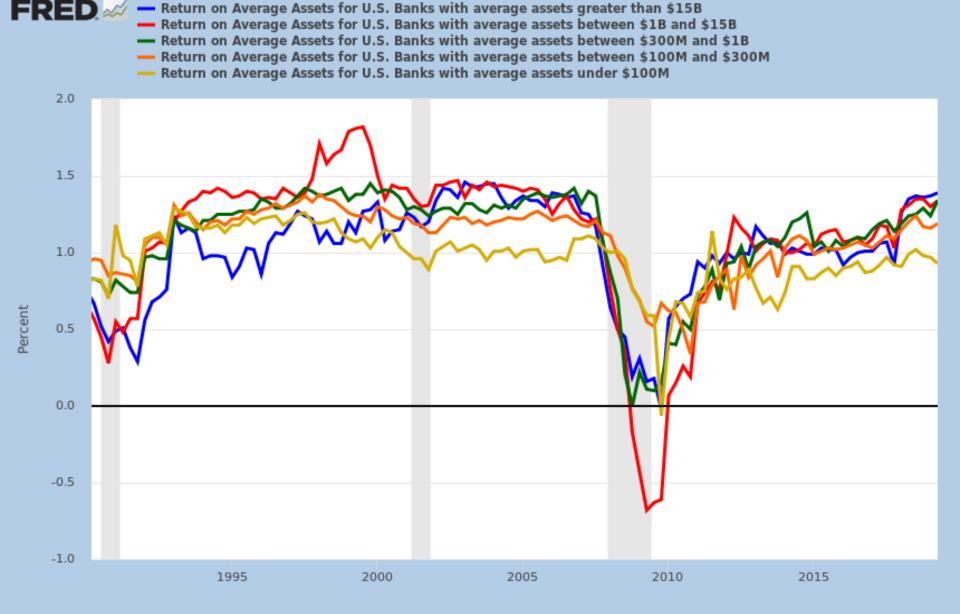


ROE for Banks Had Been Slowly Improving



ROA for Banks Had Been Slowly Improving

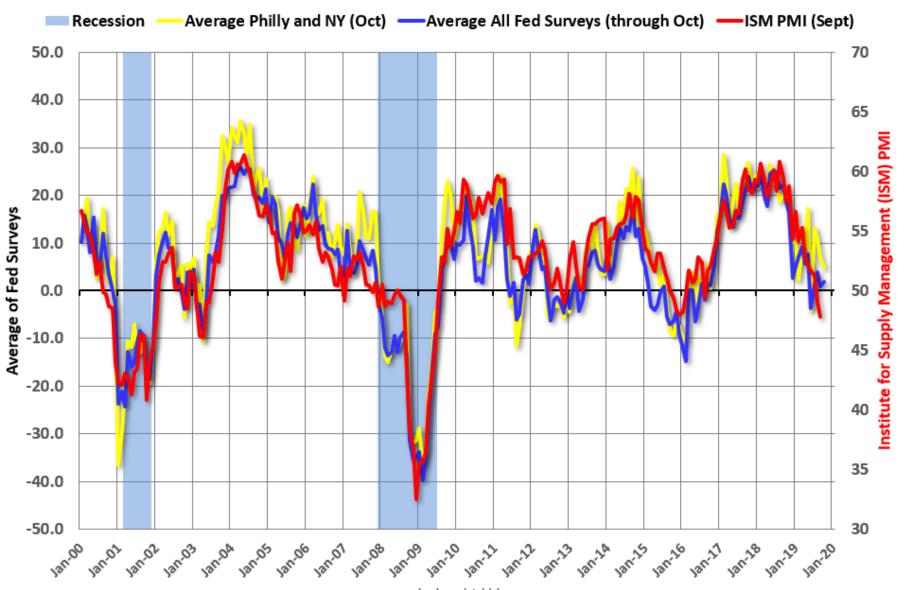
A flatter yield curve is a big concern



ISM Manufacturing Numbers Are Weak

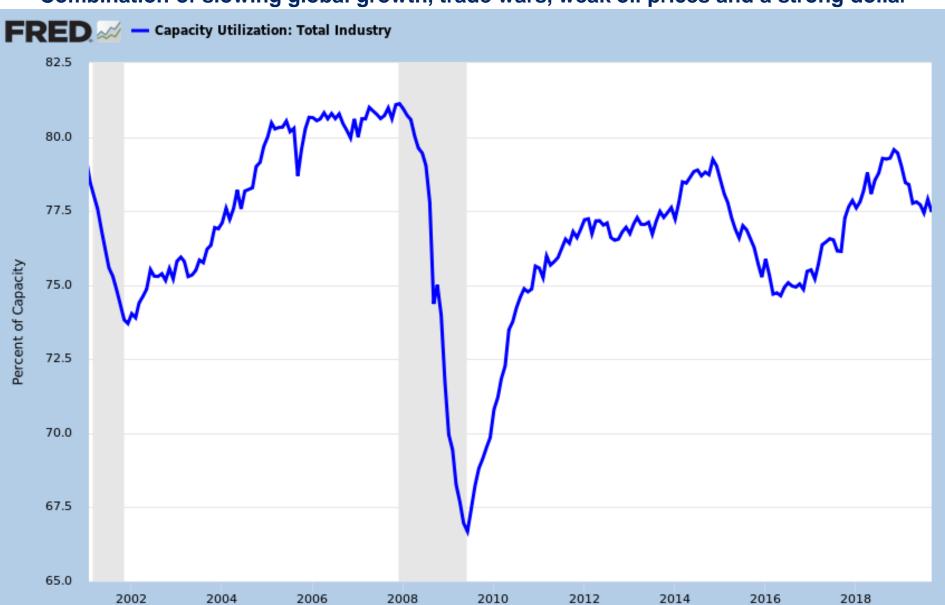
Manufacturing is less important than in decades past

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



Factory Utilization Rates are Declining

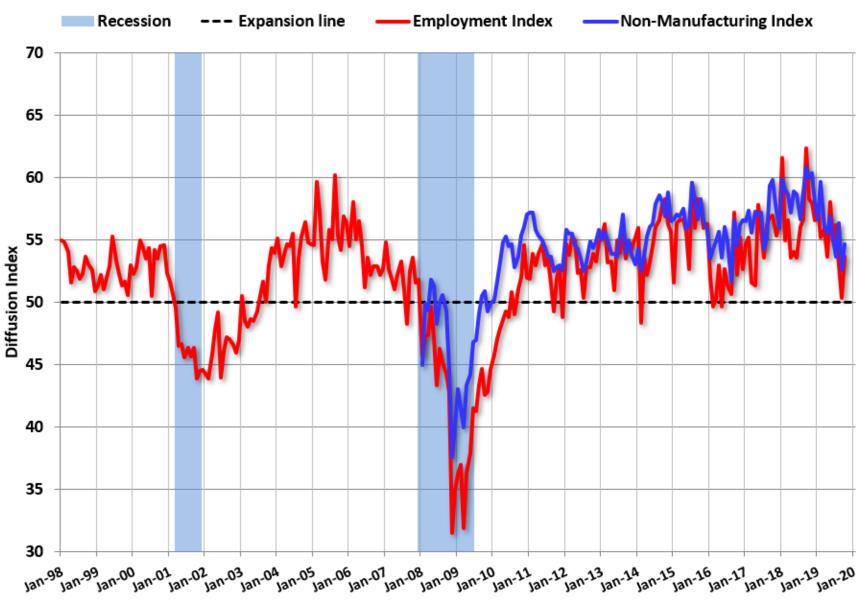
Combination of slowing global growth, trade wars, weak oil prices and a strong dollar



ISM Non-Manufacturing Numbers are OK

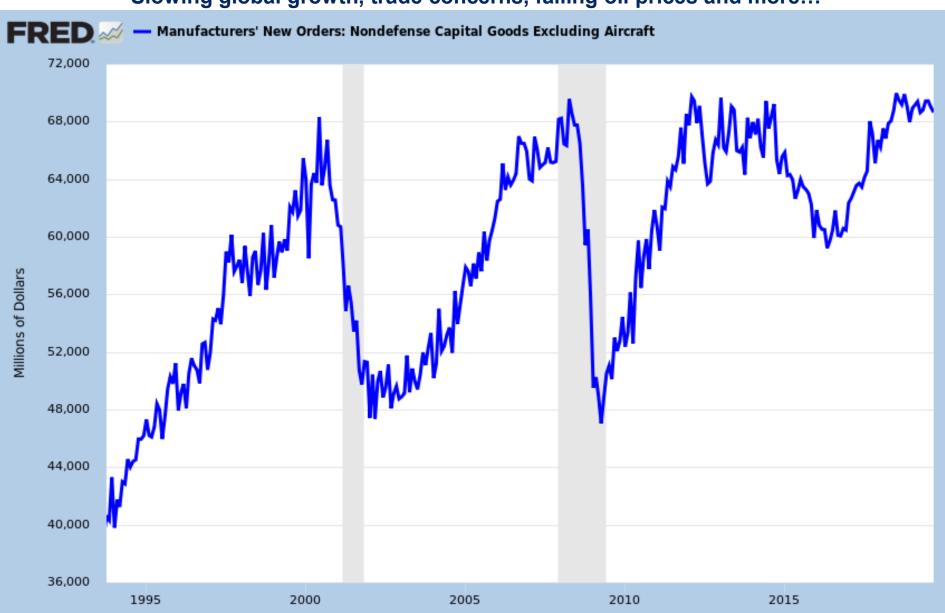
Service sector weakens

ISM Non-Manufacturing and Employment Diffusion Indexes



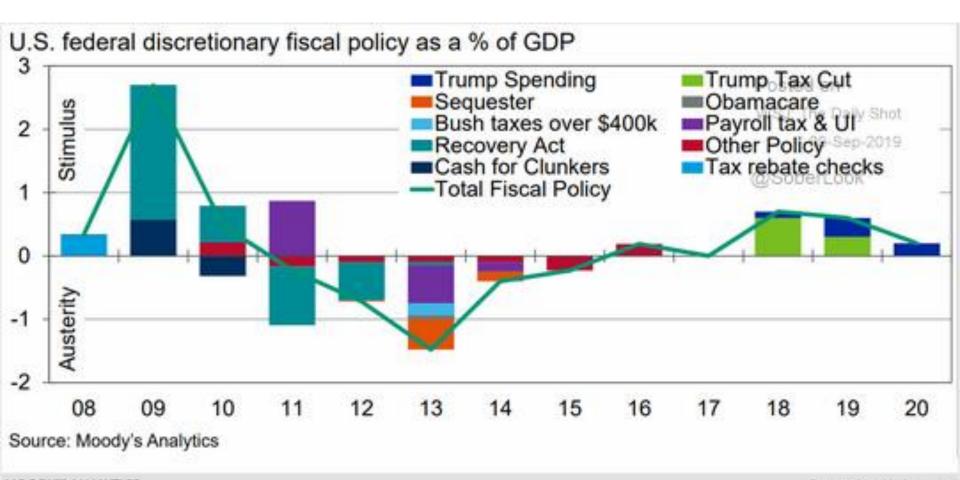
Capital Goods Orders are Flat

Slowing global growth, trade concerns, falling oil prices and more...



Tax Cuts Are Waning

By 2020, policy is contractionary



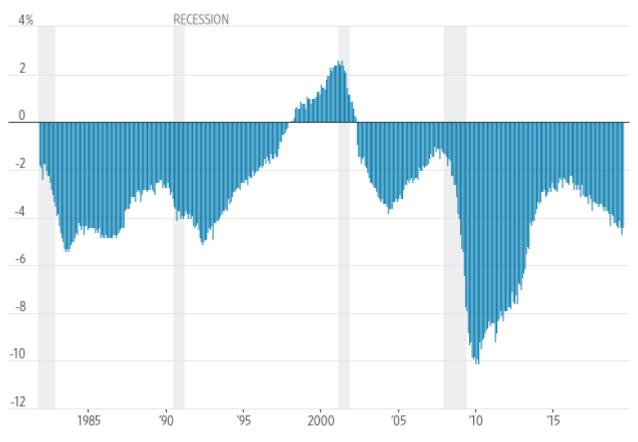
MOODY'S ANALYTICS September 2019

Budget Deficit Projections Get Much Worse

Tax cuts boost debt by \$1.9 trillion over a decade

Deficit Snapshot

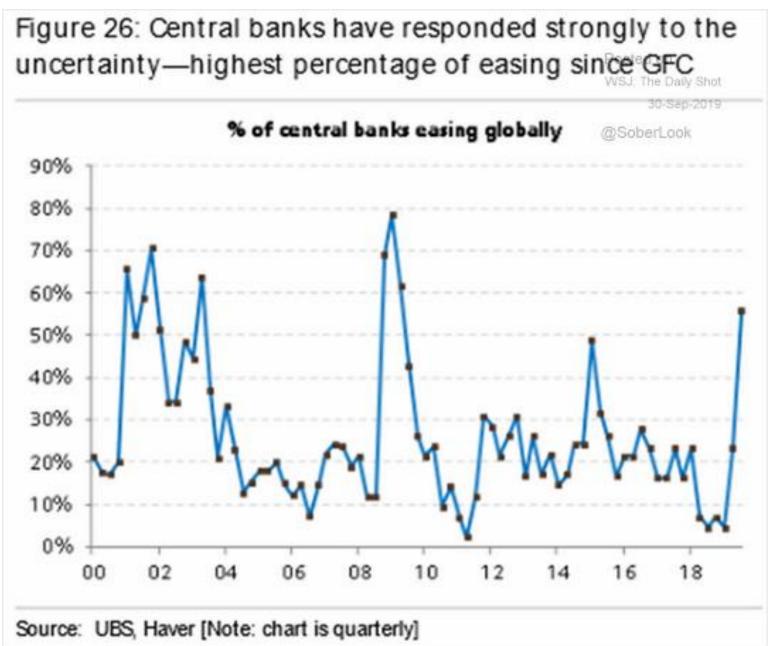
U.S. budget deficit or surplus over 12-month period as a share of gross domestic product



Source: Treasury Department

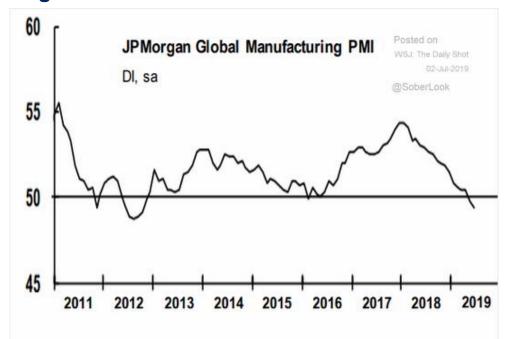
Many Nations are Loosening Monetary Policy

Global growth is slowing, and central banks are easing



Global Manufacturing Growth Steadily Weakens

Now down 14 straight months. At lowest level since 2012 and in recession mode.



Global Manufacturing PMI™ Summary

50 = no change on prior month.

Index	May	Jun.	+/-	Summary
Global PMI	49.8	49.4	_	Falling, faster rate
Output	50.1	49.5	_	Falling, from rising
New Orders	49.5	49.0	-	Falling, faster rate
New Exports	49.0	48.8	_	Falling, faster rate
Employment	49.9	49.8	_	Falling, faster rate
Input Prices	52.6	52.0	-	Rising, slower rate
Output Prices	51.1	50.9	_	Rising, slower rate
Future Output	58.1	57.7	_	Positive, lesser extent

\$550 Billion Trade War Hurts US GDP

The impact peak at 0.6% of GDP and then wane

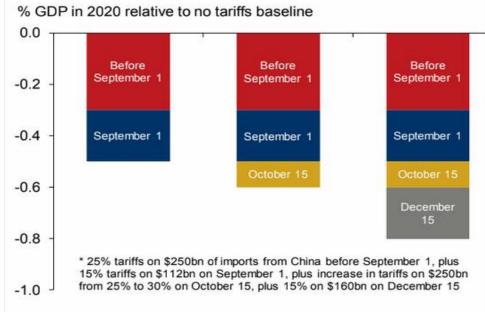
While any de-escalation in the ongoing trade war with China is welcome, today's mini deal would only regain 0.1% of the previously anticipated 0.6% GDP loss.

Given the 0.5% drag from measures enacted so far, this mini-deal doesn't make the outlook rosier – simply less bad.

Posted on WSJ. The Daily Shot 14-Oct-2019

@SoberLook

US: Real GDP drag from China tariffs*



Source : Oxford Economics

Contact: Gregory Daco | gregorydaco@oxfordeconomics.com

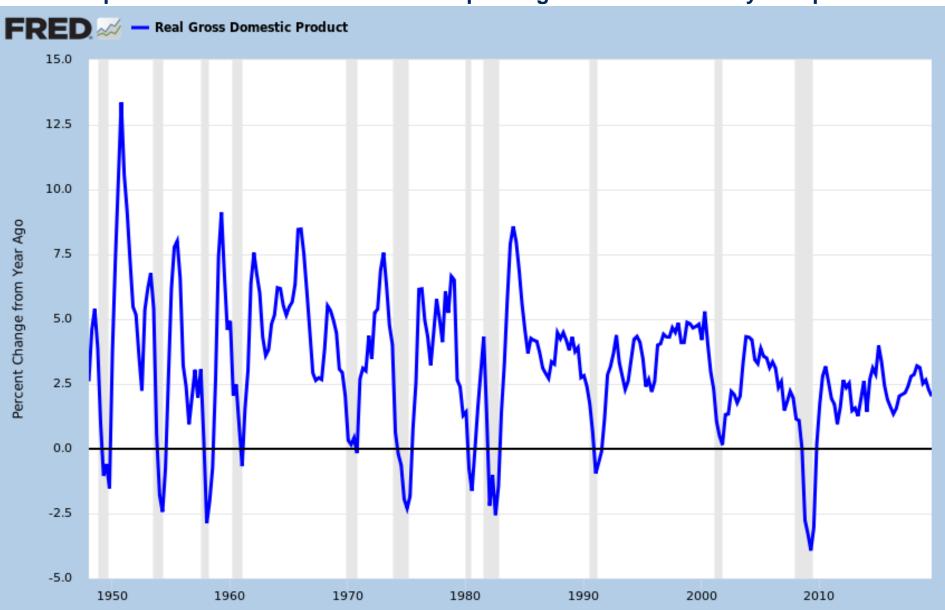
The Dollar Is Surprisingly Strong

Nearly at highest level since in January 2003. This is a big surprise!



GDP Growth Is Slowing

Impact of the 2017 tax cuts and 2018 spending increases have fully dissipated



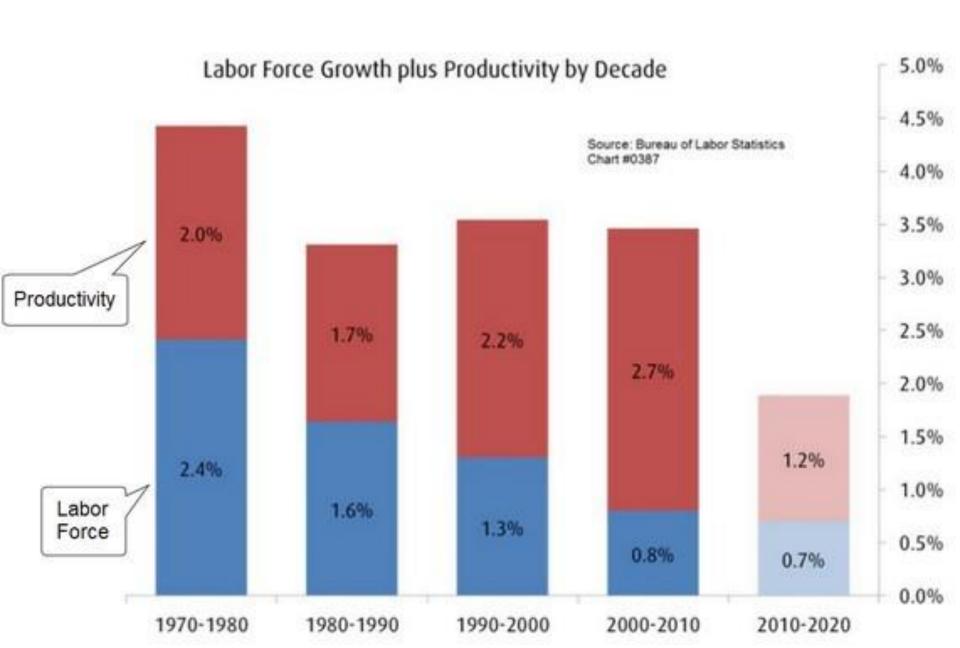
Shaded areas indicate U.S. recessions

Source: U.S. Bureau of Economic Analysis

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GDP Can't Grow Fast!

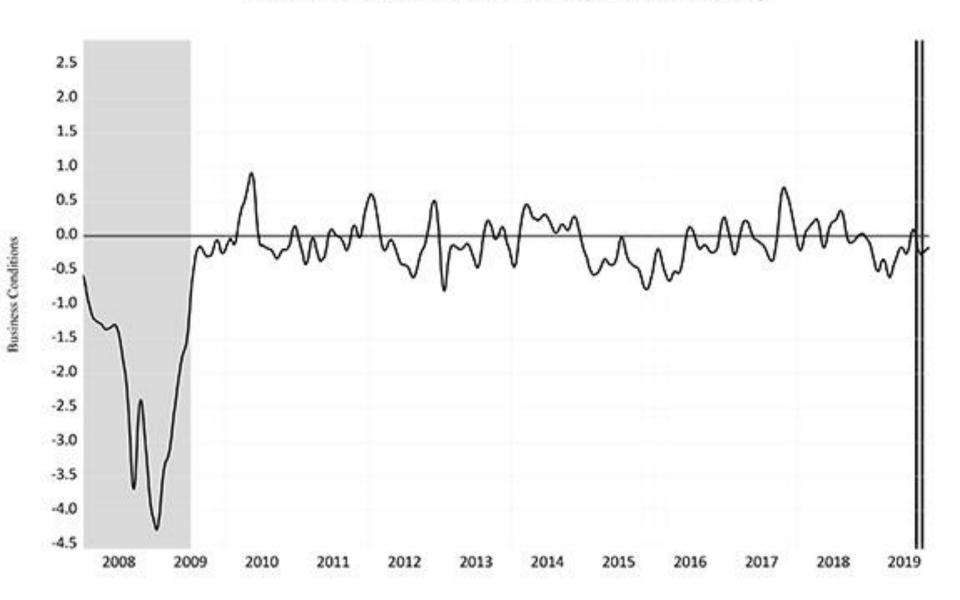
Very weak population growth and labor productivity growth



Best of All, No Recession Now!

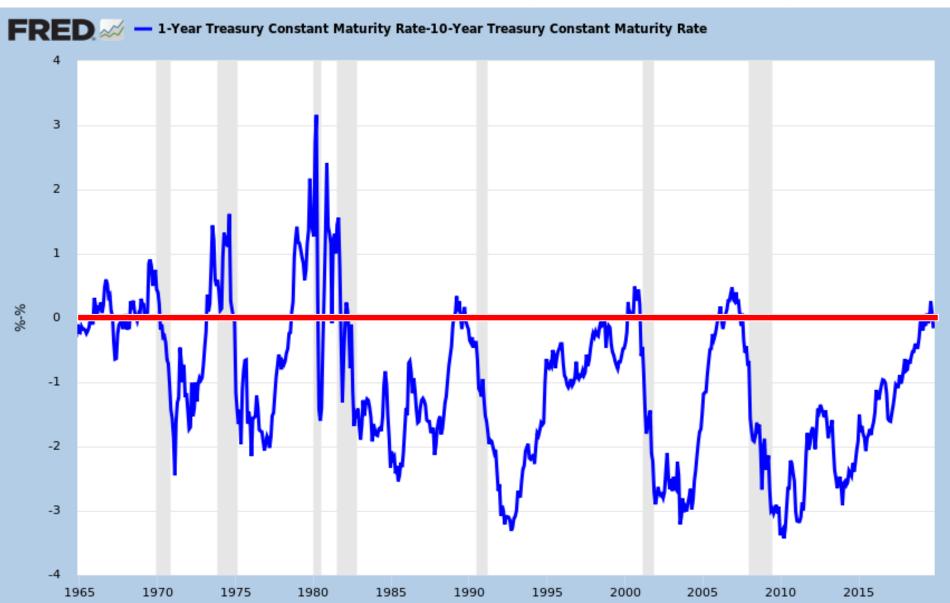
Designed to track real macroeconomic activity in real time

Aruoba-Diebold-Scotti Business Conditions Index (12/31/2007- 11/02/2019)



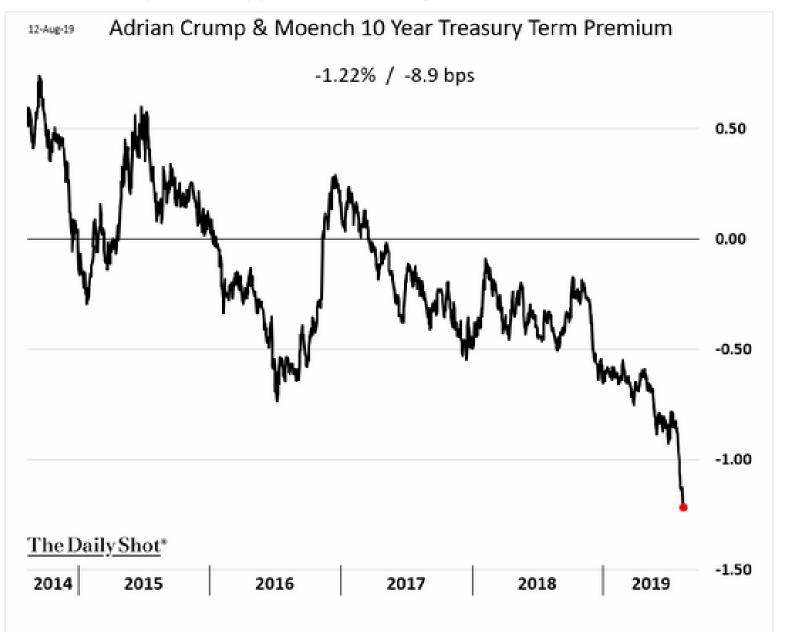
Best of All, No Recession...Yet!

Yield Curve Inversion Test: 1-Year Treasury Yield – 10-Year Treasury Yield



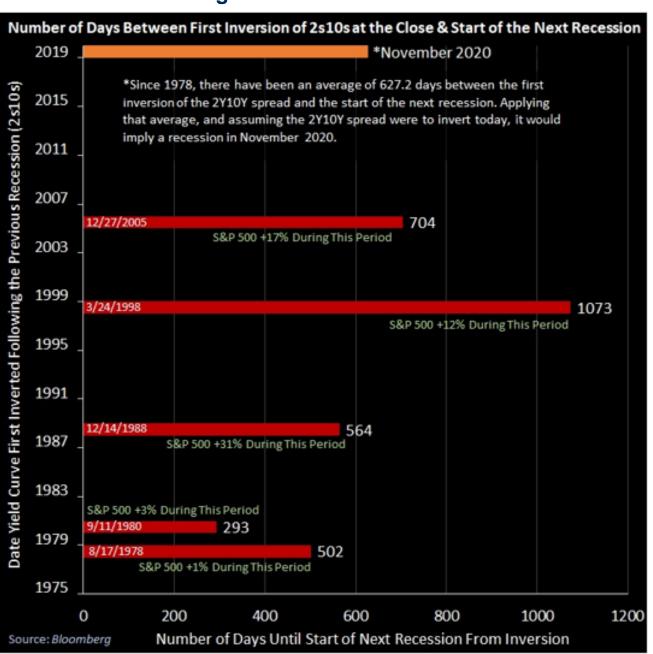
Term Premium is So Low

It keep falling. This suggests very strong demand due to safety concerns



Inversions Do Not Immediately Lead to Recessions

It takes a long time for the onset of the recession

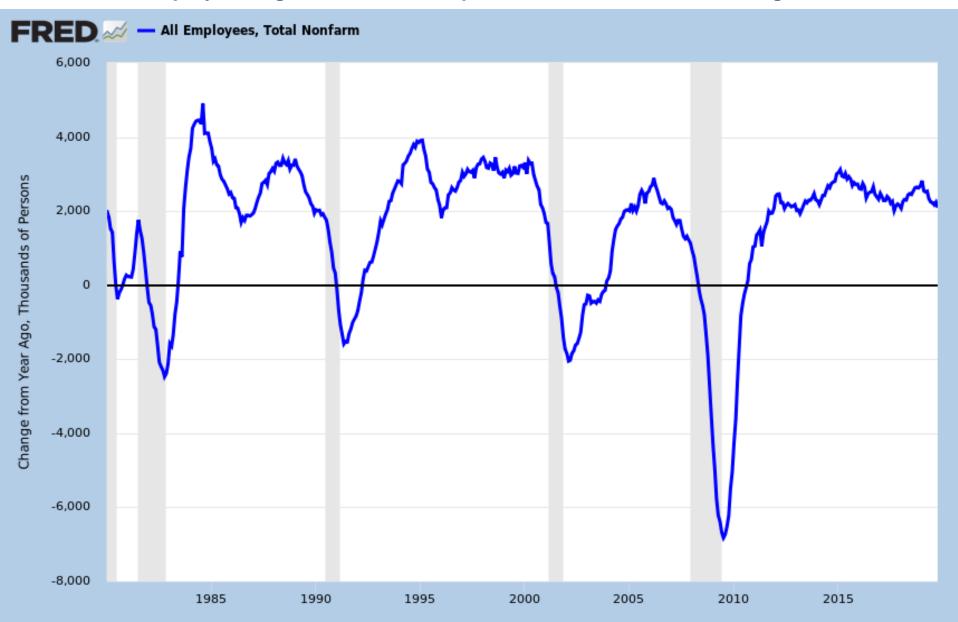


Labor Markets: They're Tight, Very Tight



Historical Job Growth

Y-o-Y Total employment growth has been spectacular. We are now running out of workers



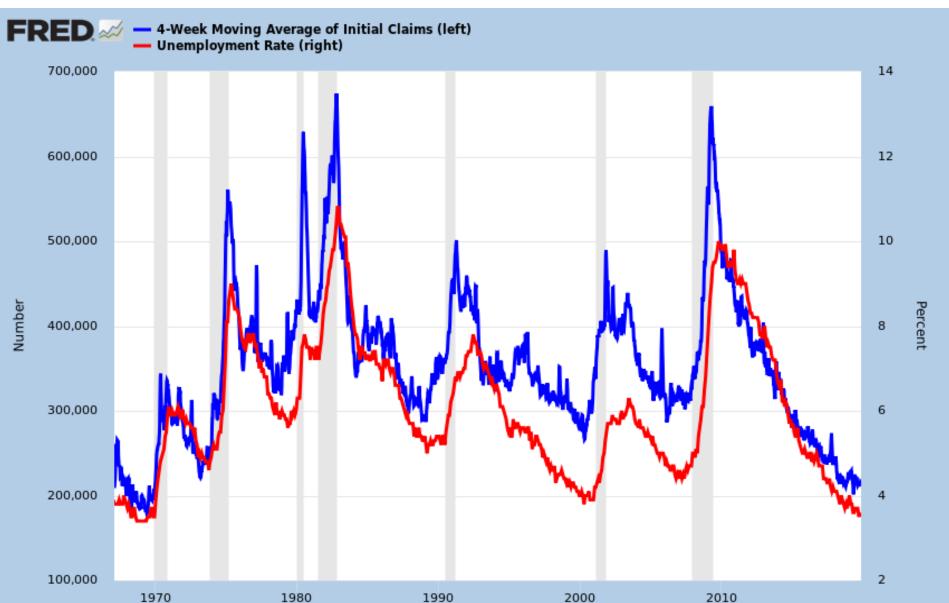
Shaded areas indicate U.S. recessions

Source: U.S. Bureau of Labor Statistics

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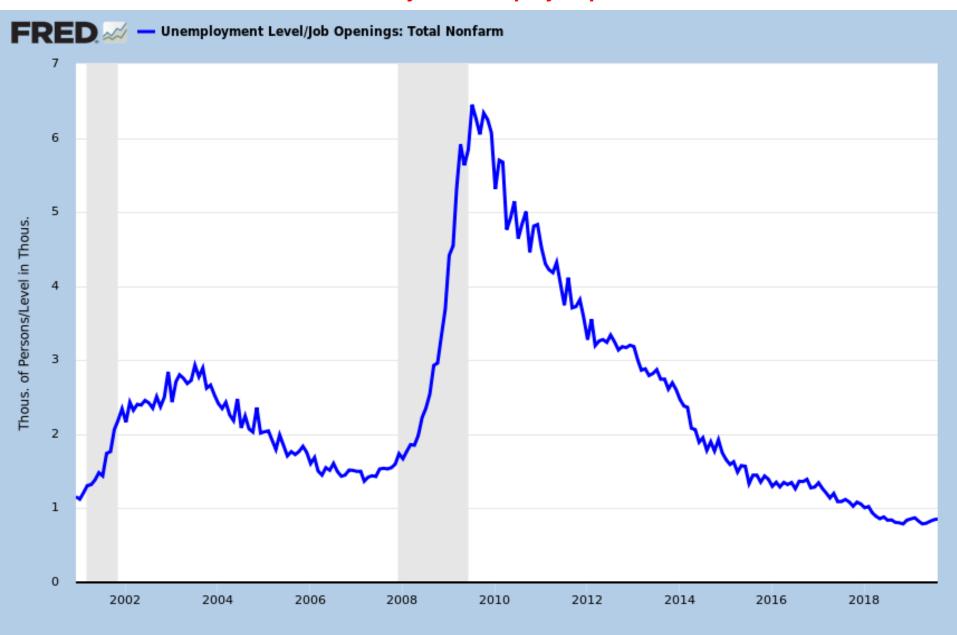
STEADY Labor Market Improvement: Involuntary Separation

Long Term Trends: 1967-2017 Initial claims below 300K for 239 straight weeks!



Labor Market is Clearly Tight

There are 1.19 jobs/unemployed person!!!!!!



Shaded areas indicate U.S. recessions

Source: U.S. Bureau of Labor Statistics

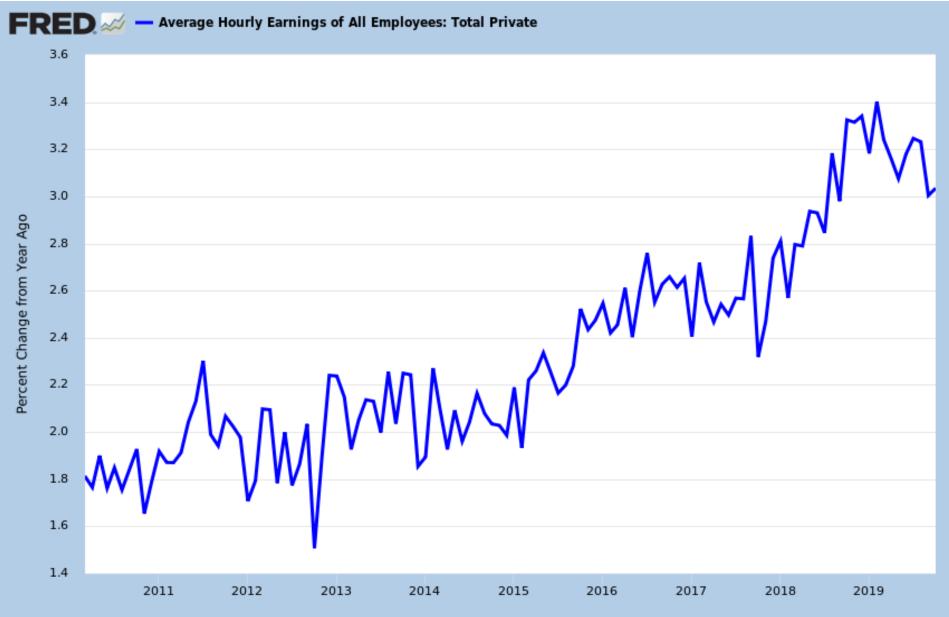
myf.red/g/p7ZM

Wage Growth is Weak, But...



Y-o-Y Percent Change in Hourly Earnings

Despite very low unemployment, wage growth is weak



Shaded areas indicate U.S. recessions

Source: U.S. Bureau of Labor Statistics

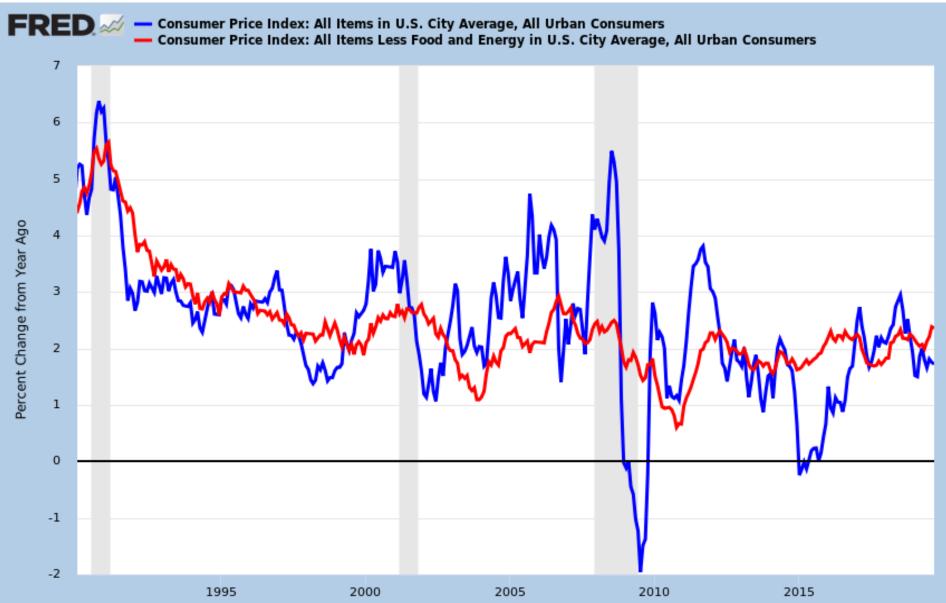
myf.red/g/pp9D

Inflation? It's MIA!



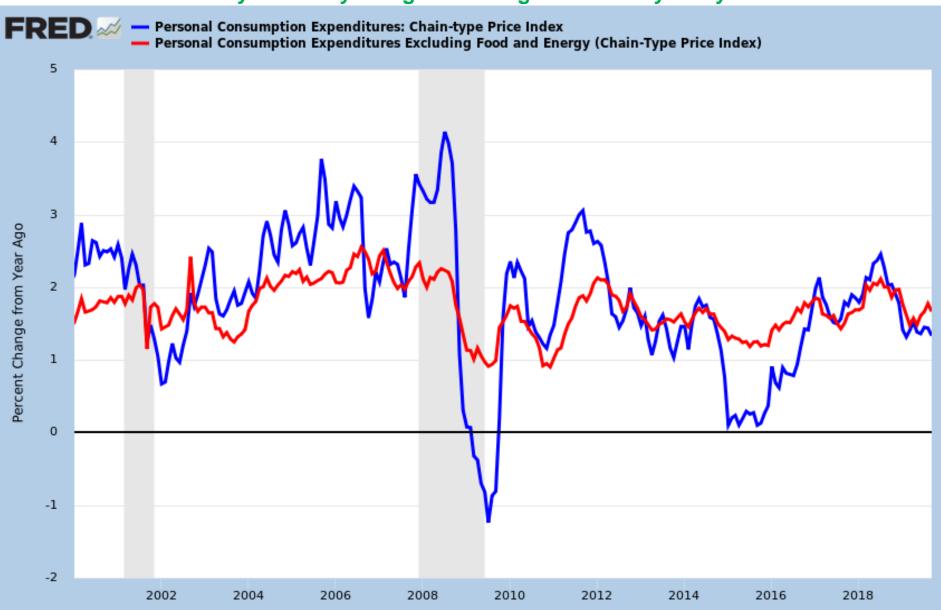
CPI: Inflationary Pressures are Rising

There appears to be no inflationary pressures. Growth is at best flat



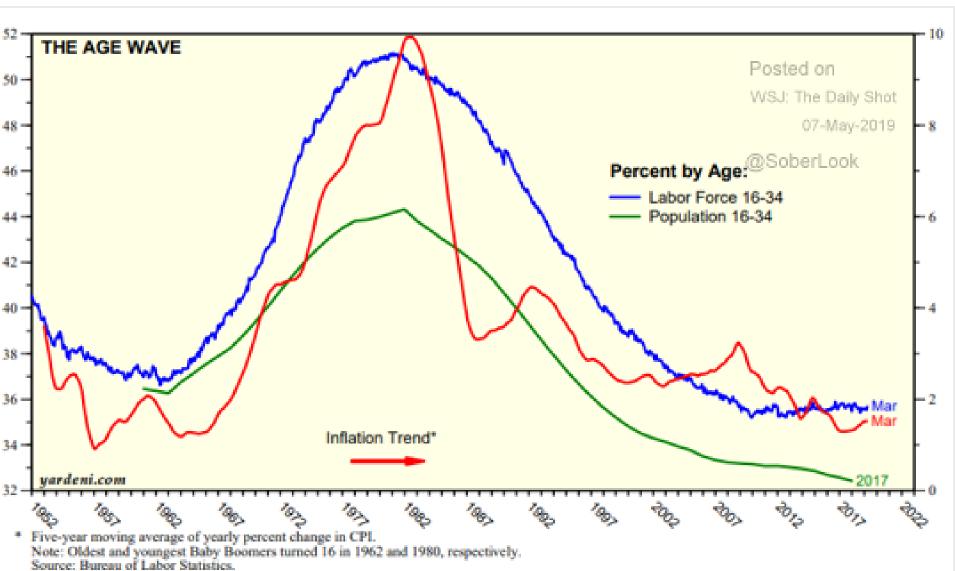
Core PCE Price Index

Inflation may be slowly rising after being held back by many of factors



Inflation and Population Growth

They seem highly correlated

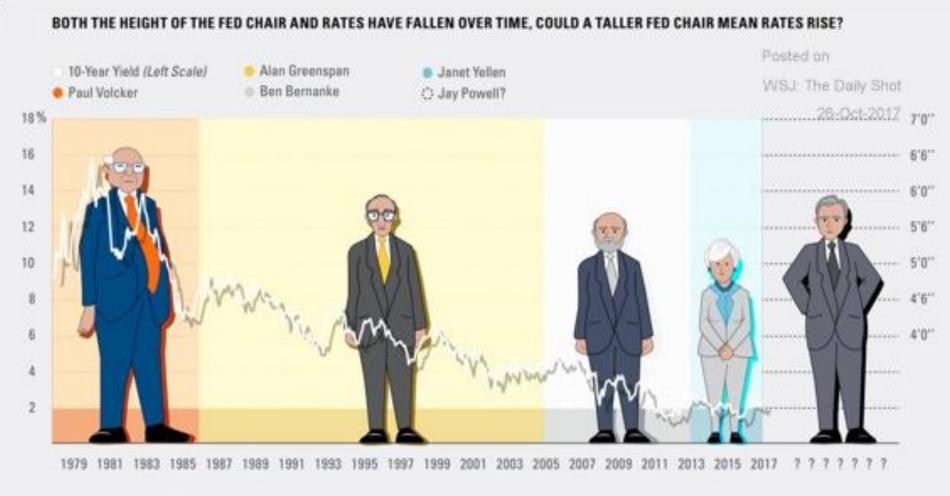


Yardeni Research, Inc. www.yardeni.com

Federal Reserve Behavior

Will Rates Rise? Nope!

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

Best Case Scenario

Fed funds is currently 1.625%

• 12/31/19: 1.625% 10-yr Treasury @ 1.70%

12/31/20: 1.375% 10-yr Treasury @ 1.90%

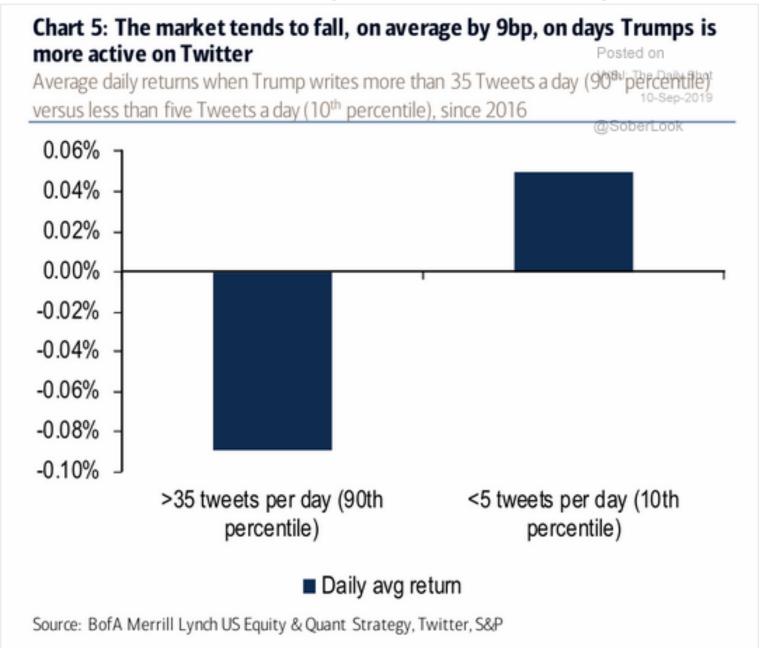
• 12/31/21: 1.375% 10-yr Treasury @ 2.05%

Now For Politics!



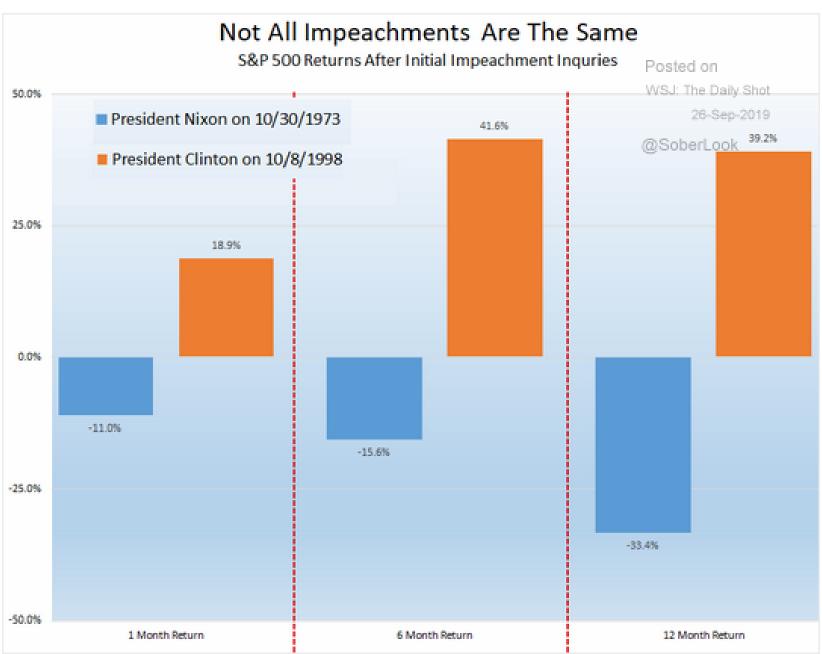
Trump Tweets Move Markets

Less tweeting is more powerful tweeting



Impeachment Impact on Markets?

Economic fundamentals rule

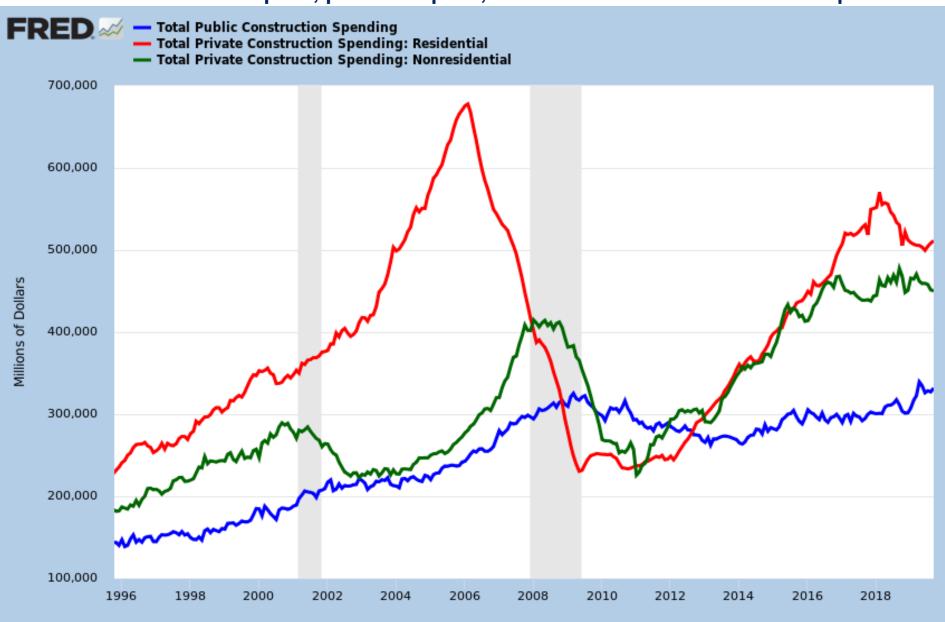


New Housing? Not enough is being built!



Residential Fixed Investment Shrinks

Non-residential is up 9%, public is up 2%, and residential is down 25% from peak



Shaded areas indicate U.S. recessions

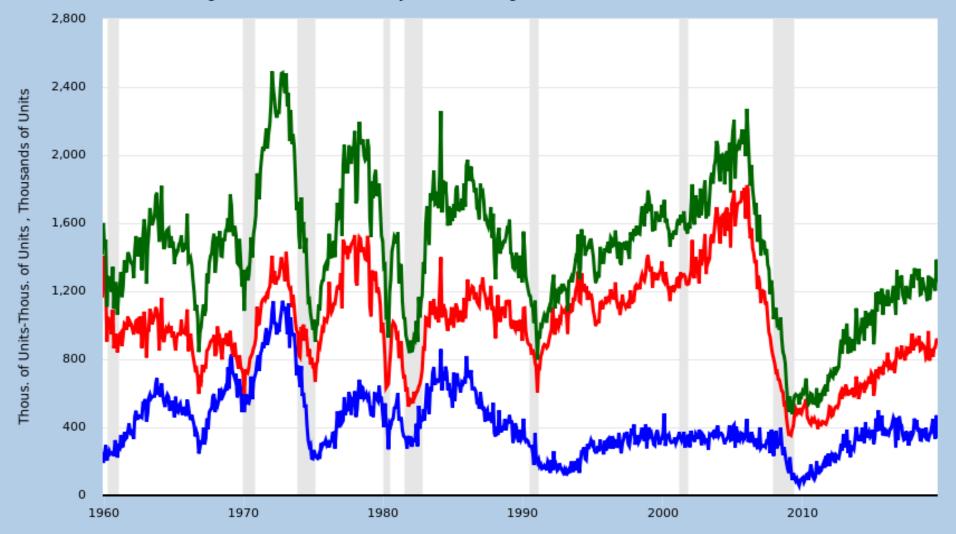
Source: U.S. Census Bureau

myf.red/g/pp1i

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

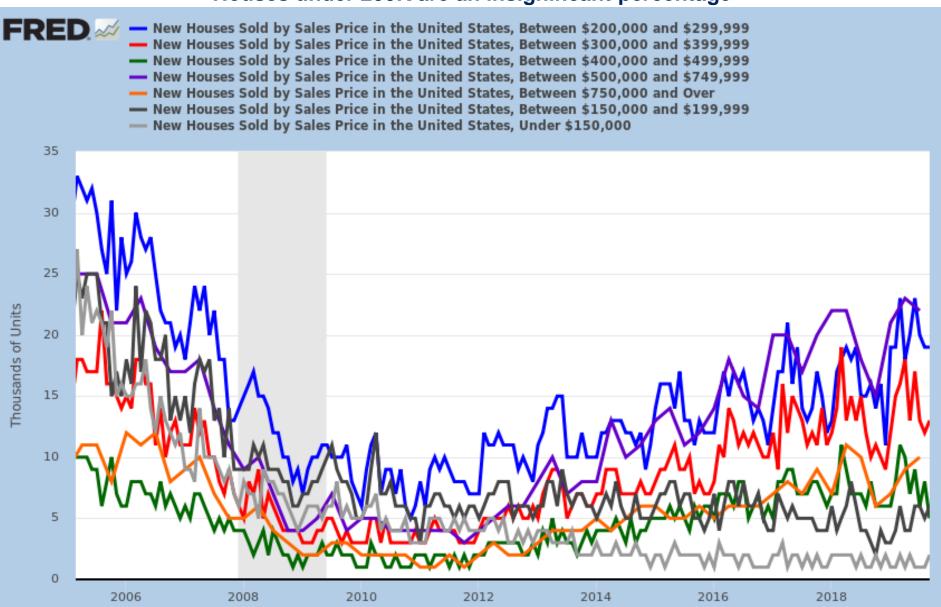


- Housing Starts: Total: New Privately Owned Housing Units Started-Privately Owned Housing Starts: 1-Unit Structures
- Privately Owned Housing Starts: 1-Unit Structures
- Housing Starts: Total: New Privately Owned Housing Units Started



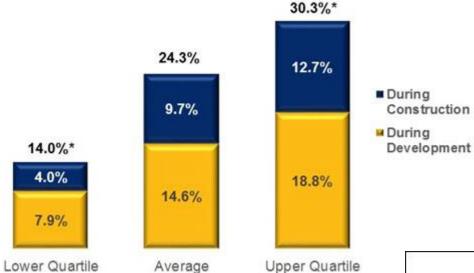
New Home Sales by Price

Houses under 200K are an insignificant percentage



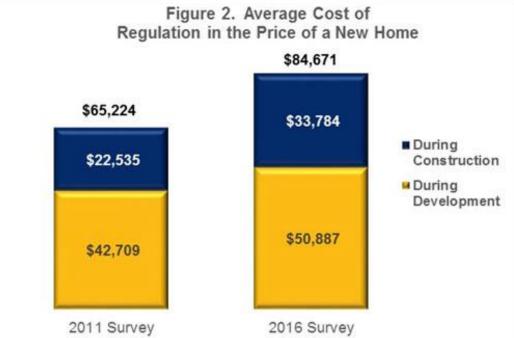
New Home Prices Are Too High Due to Regulation

Figure 1. Regulatory Costs as a Share of Home Price



^{*} For quartiles, construction and development costs do not sum to the total.

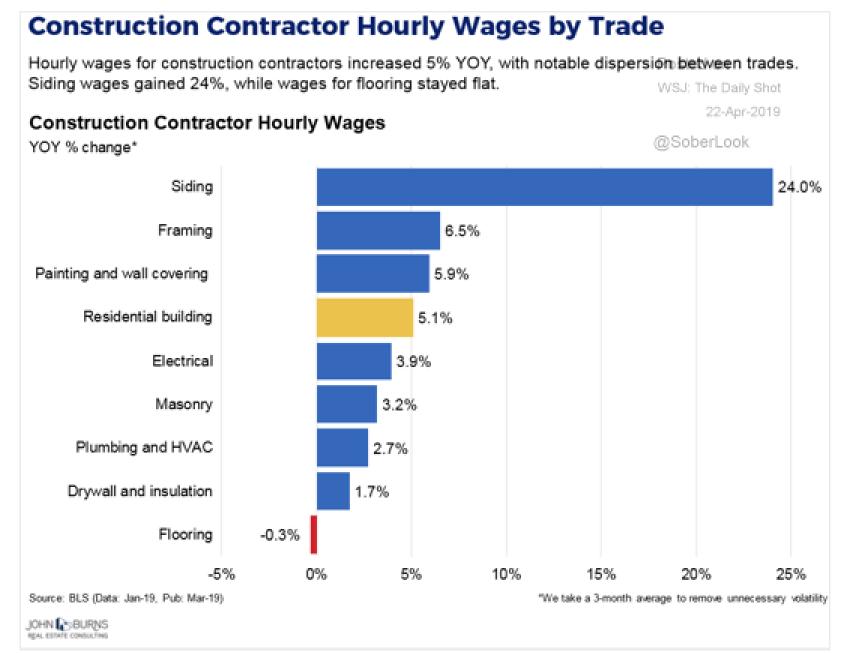
Source: NAHB/Wells Fargo HMI survey, assumptions described in the Appendix.



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

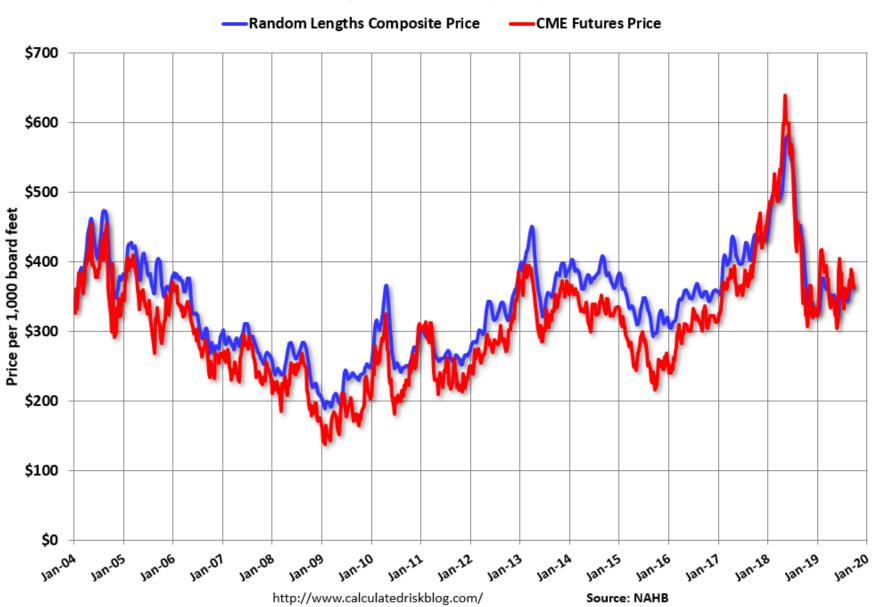
Average wage growth/year for construction workers is 5.1%, much higher than the average



Lumber Costs Decline and Flatline

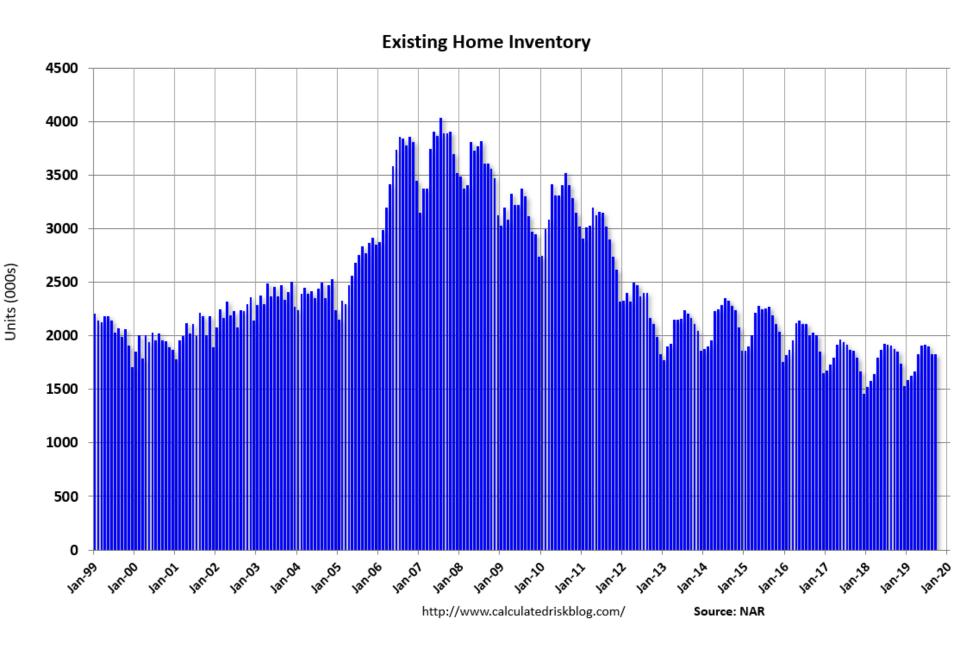
Prices are down 7% or up 1% Y-o-Y. Exports to China are down due to tariffs

Framing Lumber Prices per 1,000 board feet



Inventory Is Low and Keeps Shrinking

Inventory's flat Y-o-Y! Had risen for 10 straight months, but now is shrinking again!



Existing Home Sales are Steadying

Regrettably, this is occurring while the economy rocks!

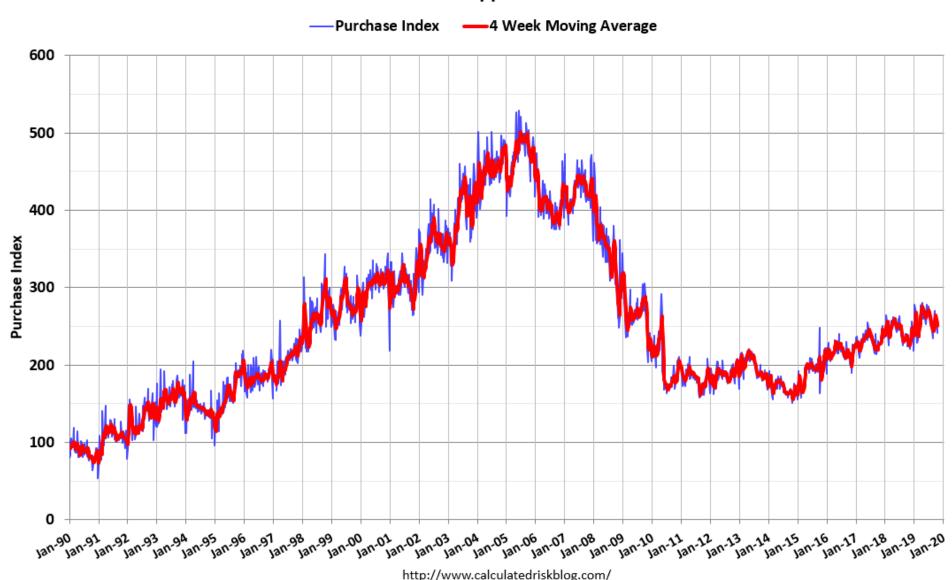
Existing Home Sales (SAAR)



Mortgage Purchase Applications Flatten

1st time applications are up 10% Y-o-Y, at level of the late 1990s! 2020 purchase volume should be about \$1.25 trillion, unchanged from 2019

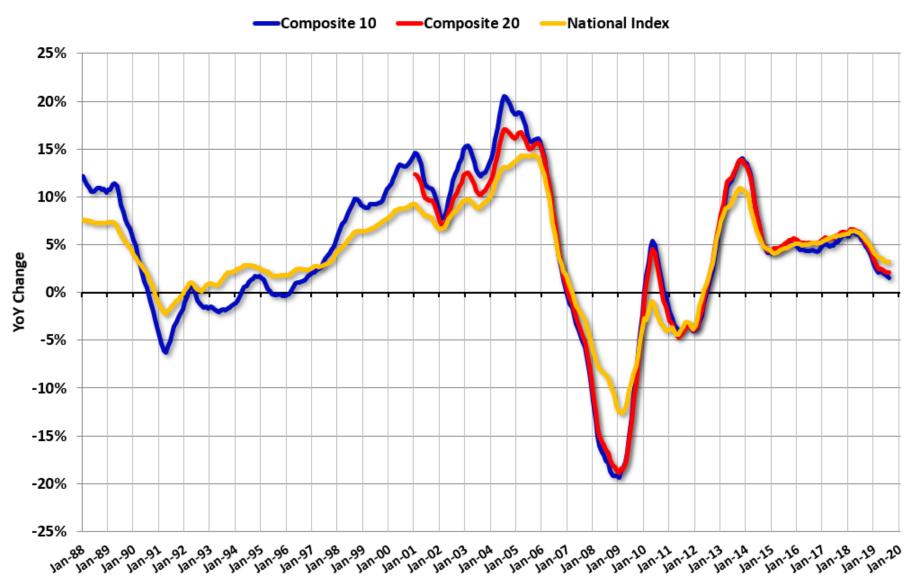
MBA Purchase Applications Index



Price Growth is Slowing

Prices rise faster than wages! Y-o-Y prices up 1.6%, 2.1% or 3.2% depending on the measure

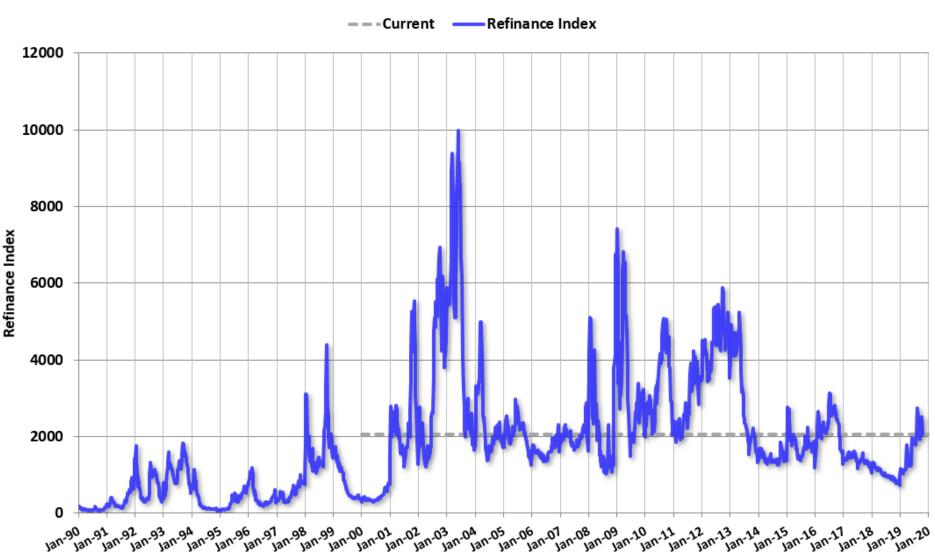
Case-Shiller National and Composite Indices SA, Year-over-year Change



Refinance Activity Improves!

2020 refi activity probably falls to \$500 billion, from \$650 in 2019

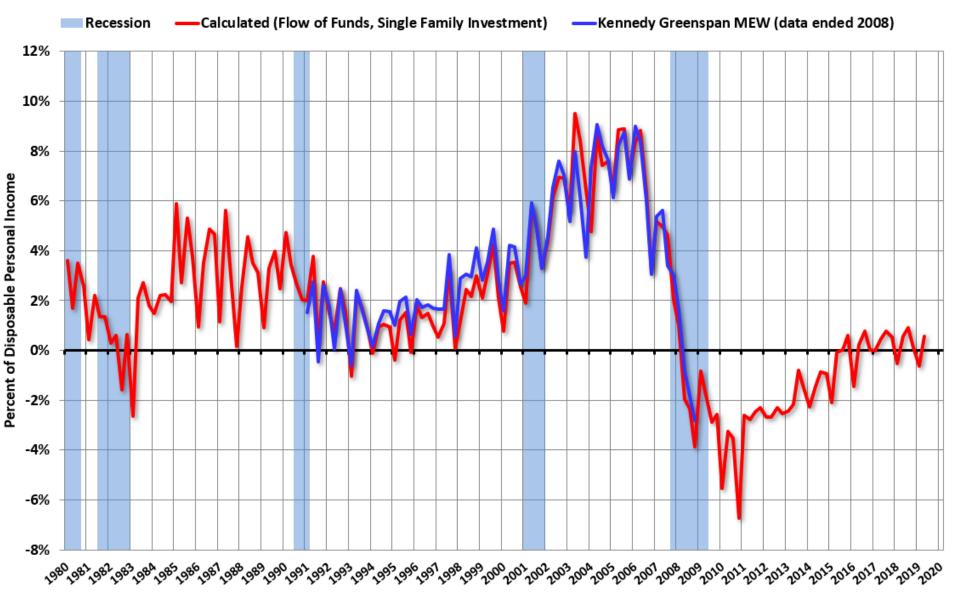
MBA Refinance Applications Index



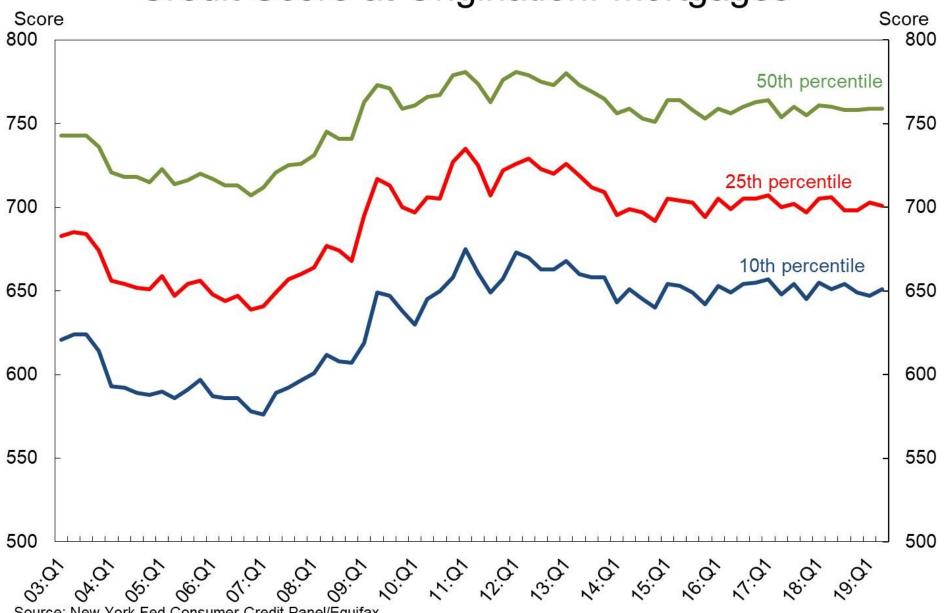
Households are Repairing their Balance Sheets

Limited Mortgage Equity Withdrawal (MEW). But, it's now rising after including foreclosures

Mortgage Equity Withdrawal as a Percent of Disposable Personal Income (NSA)



Credit Score at Origination: Mortgages*

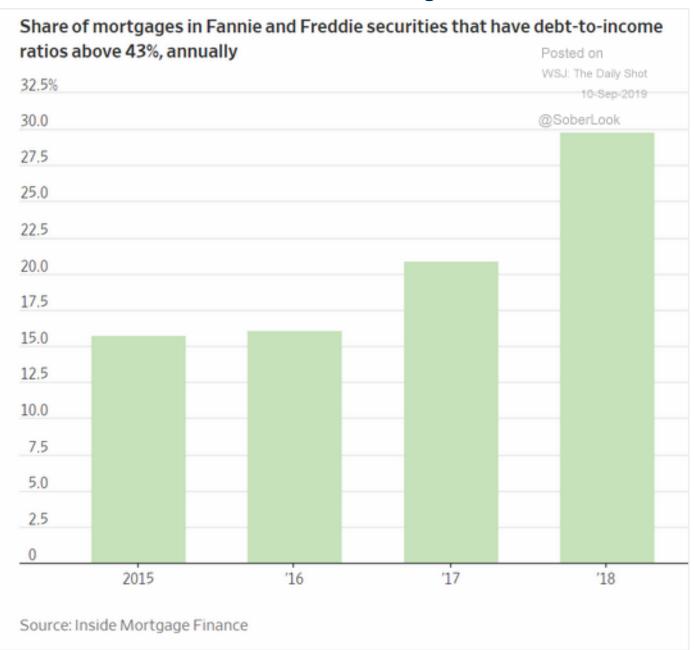


Source: New York Fed Consumer Credit Panel/Equifax

^{*} Credit Score is Equifax Riskscore 3.0; mortgages include first-liens only.

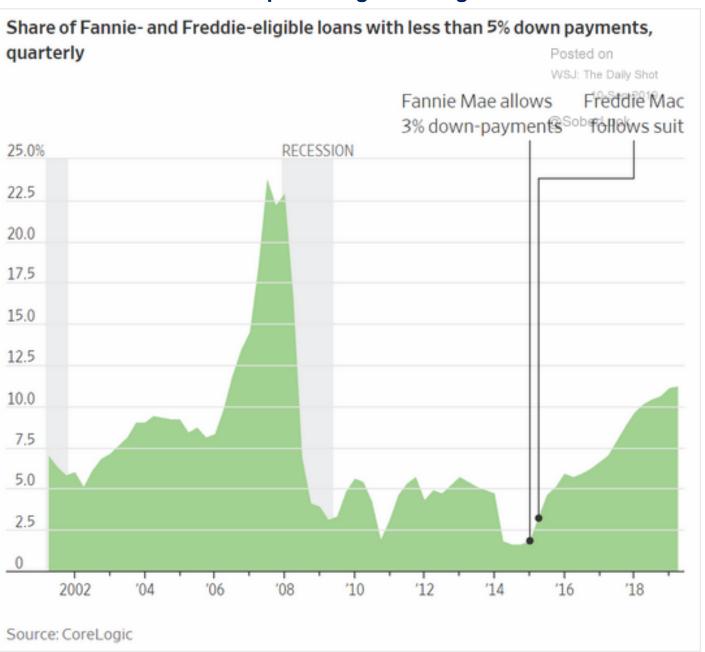
DTI Ratios Creep Up

Few risk loans are being made



Low Down Payment Borrowers

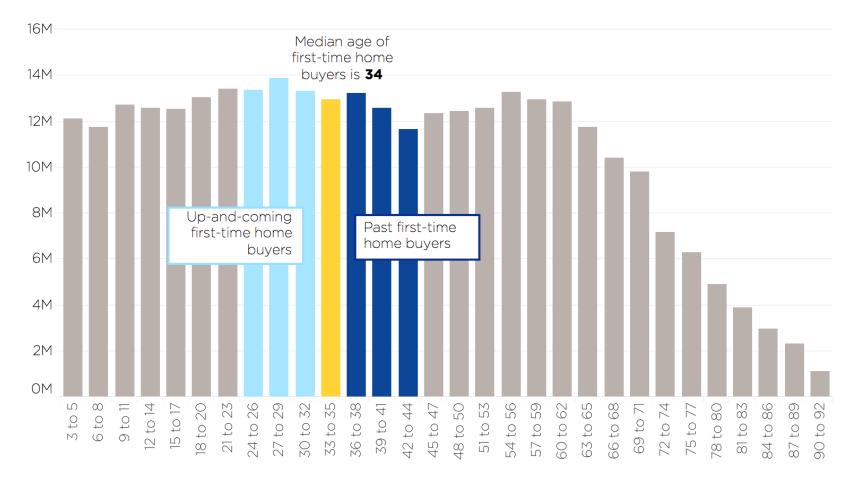
The percentage is rising!



Millennials Will Keep This Issue Front and Center Beginning to approach Peak Millennial

Coming soon: An even bigger wave of potential buyers

Age distribution of the United States

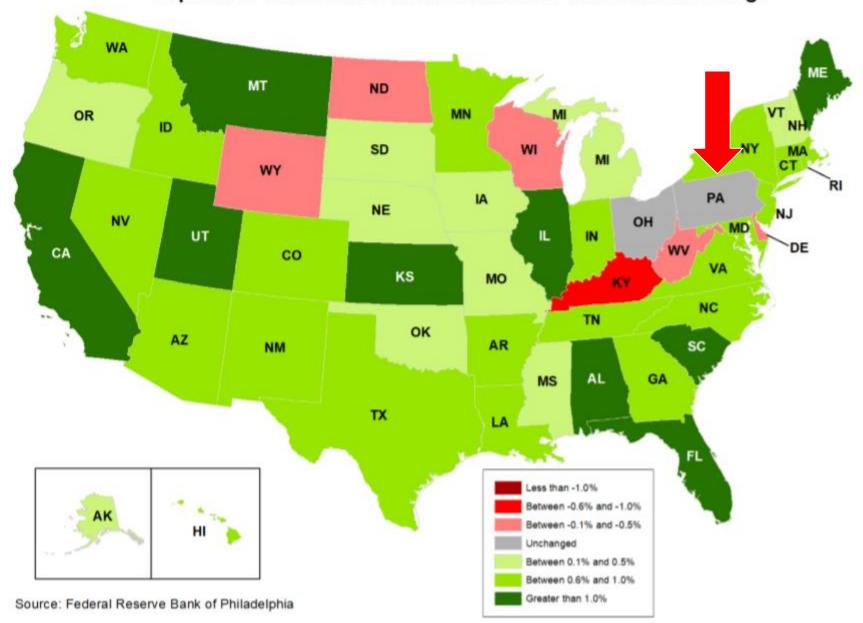


Zillow Economic Research | Source: Population counts by age and metro was pulled from one-year 2017-ACS data made available by IPUMS - USA. Ages of individuals were bumped up one year to coincide with our source for median age of first time buyer, the 2018 Zillow Group housing trends report. That survey was boosted in five metro areas, allowing for metro level median first-time home buyer ages in Phoenix (34.5 years), San Francisco (37 years), Atlanta (37 years), Chicago (34 years) and Washington, D.C. (34 years).

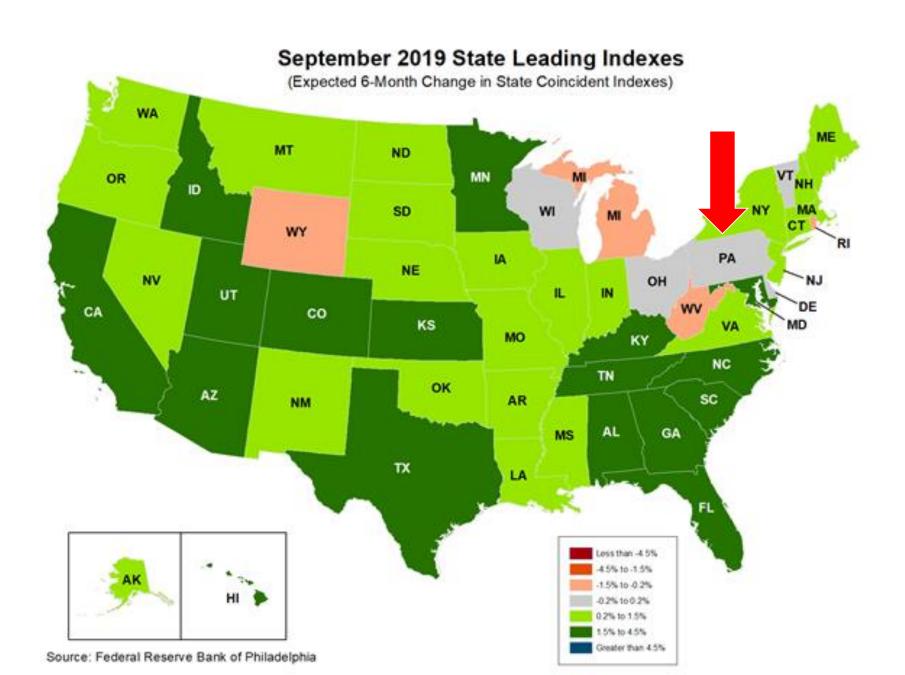
What About Things Here?

Things Are Good Now

September 2019 State Coincident Indexes: Three-Month Change

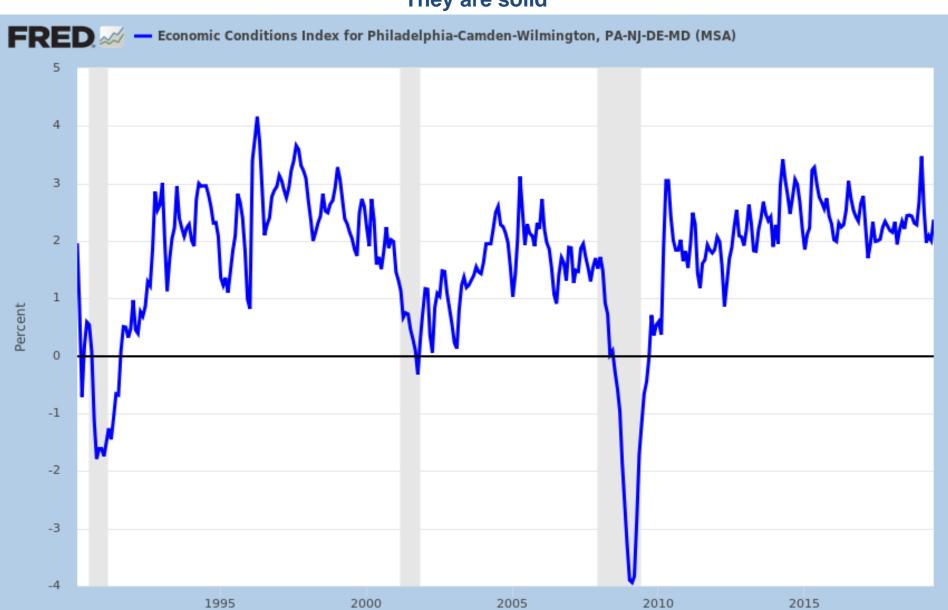


The Future Looks Good Too!



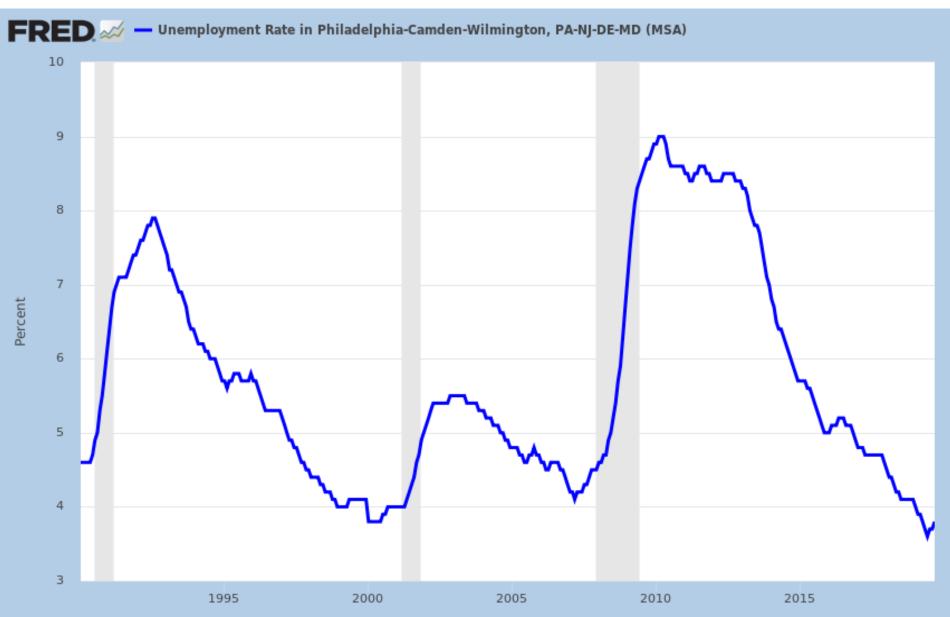
Economic Conditions

They are solid



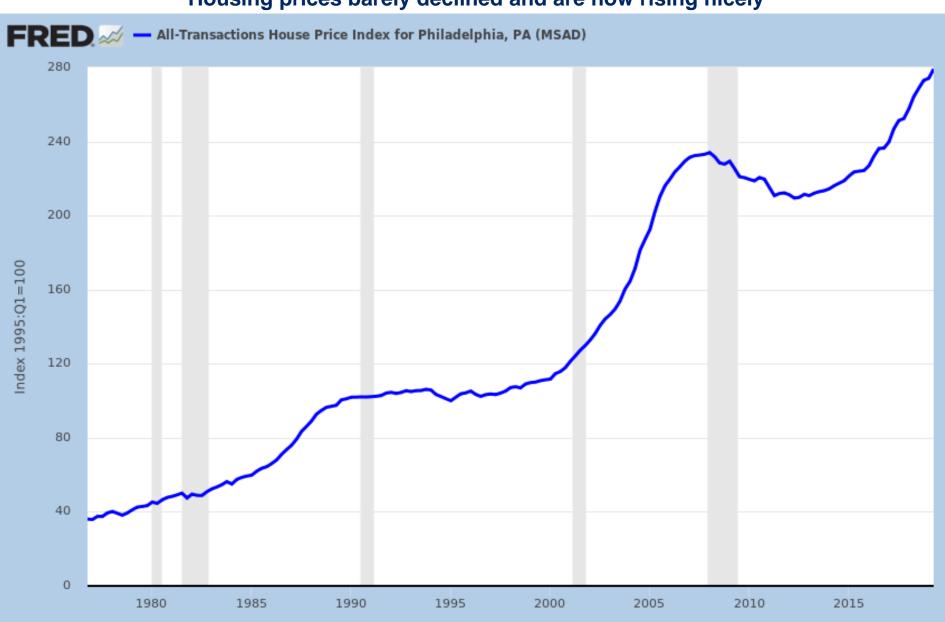
The Unemployment Rates in Philadelphia

The rate very much follows the national average



Housing Prices Improve

Housing prices barely declined and are now rising nicely



Shaded areas indicate U.S. recessions

Source: U.S. Federal Housing Finance Agency

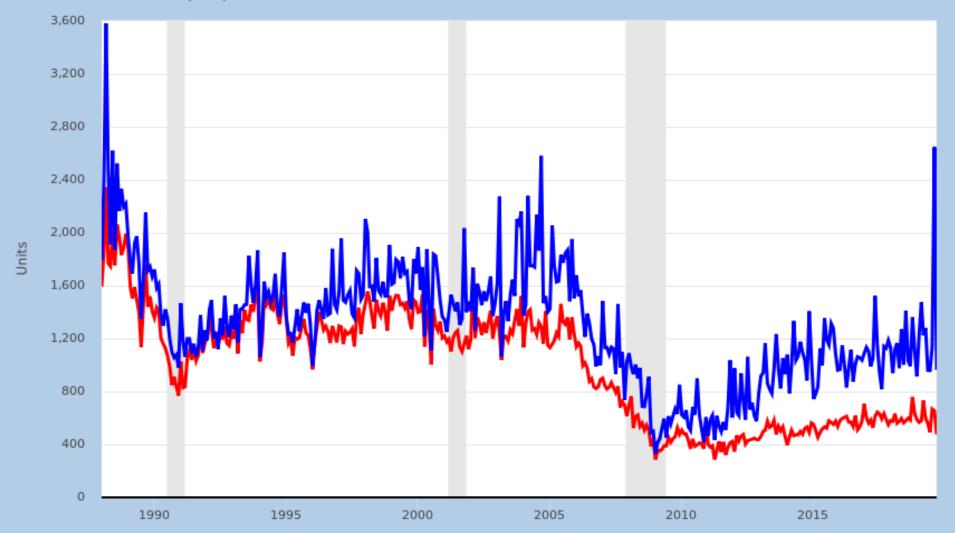
myf.red/g/ptqX

Housing Starts in Philadelphia

Single family struggles while multifamily is strong and getting stronger



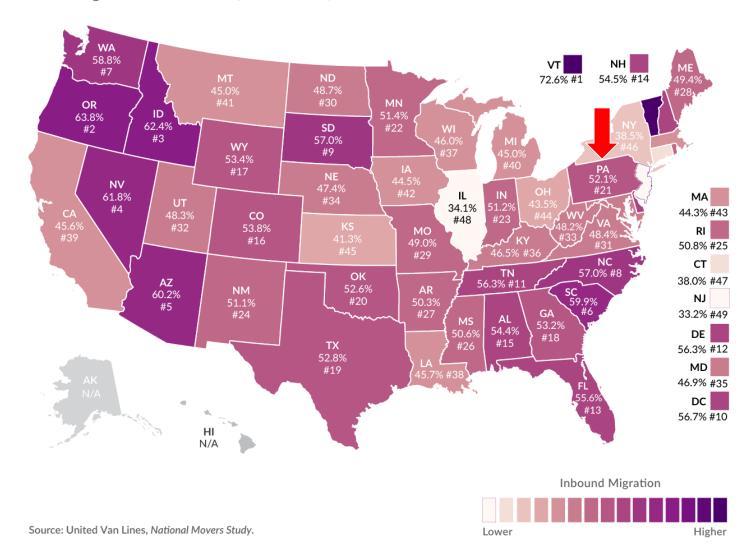
- New Private Housing Units Authorized by Building Permits: 1-Unit Structures for Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (MSA)
- New Private Housing Units Authorized by Building Permits for Philadelphia-Camden-Wilmington, PA-NJ-DE-MD (MSA)



Interstate Migration Patterns 2018

Where Did Americans Move in 2018?

Inbound Migration as a Percent of Total Moves, 2018



TAX FOUNDATION @TaxFoundation

ANY QUESTIONS?

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Thank **YOU** all very very much!

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