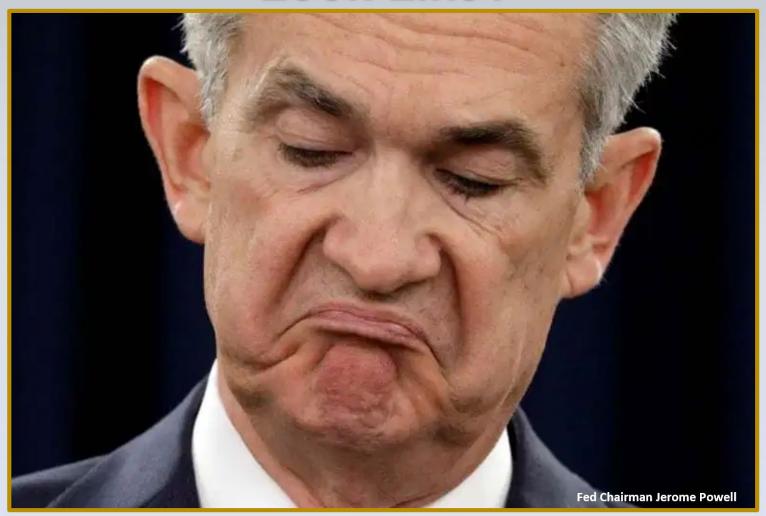
An Economic Overview: What Does 2020 Look Like?

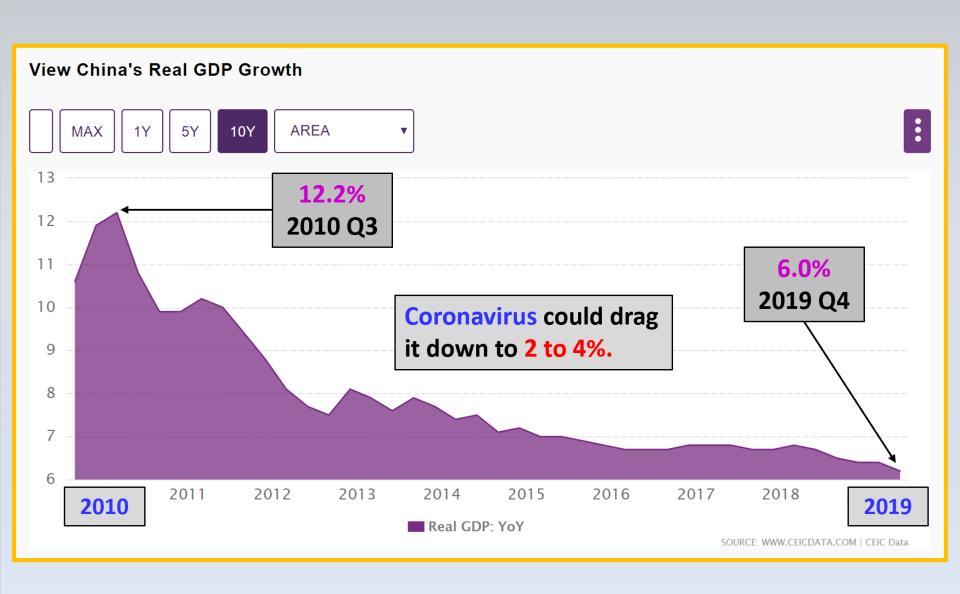


Harold Hunt, PhD
Real Estate Center at Texas A&M
hhunt@tamu.edu

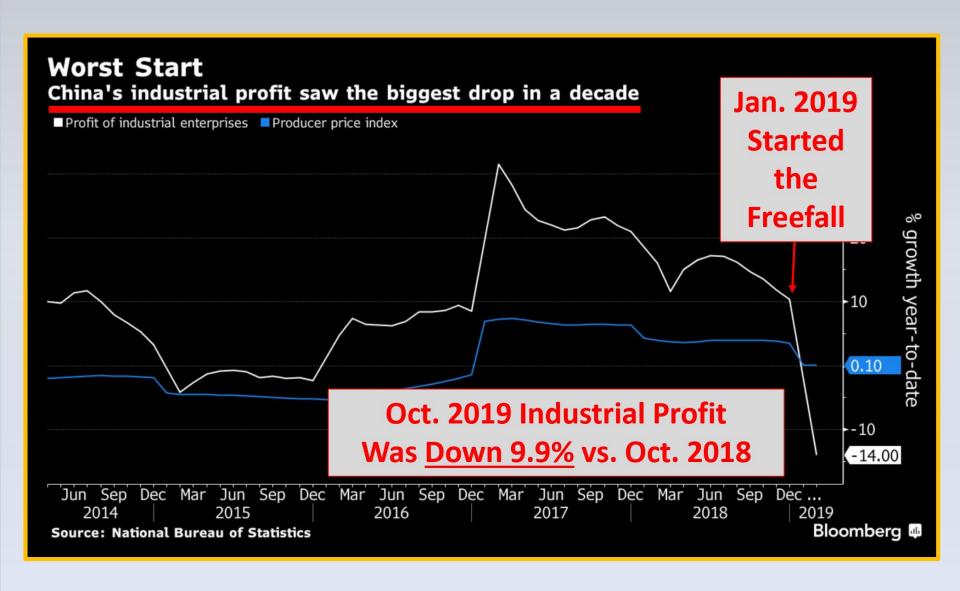
Global Slowdown Continues

- The apprehension about slower global economic growth continues.
 - Forecasting only 1.0% GDP growth for the EU in 2020
 - \$15 Trillion in <u>negative</u> interest rate bonds globally
 - 53% of global debt (w/o the U.S.) is negative yielding
 - Chinese economic growth still slowing
 - China US trade policy has been biggest global concern
 - Coronavirus only makes things worse

China's Real GDP Growth Still Slowing



China's Industrial Profit Plummeted in 2019



The Phase 1 Trade Deal

- China is pledging to:
 - To open its financial sector further.
 - To not devalue the Chinese yuan.
 - Offer <u>better protection for U.S. intellectual property</u>.
 - Increase purchases of U.S. farm goods by \$32 bil. over the next 2 years (to total \$40 bil./yr)
 - Conduct Semi-annual talks to push for further economic reform and resolve disputes.

The Phase 1 Trade Deal

- The U.S. is pledging to:
 - Cancel new tariffs on \$156 bil. In Chinese imports set to take effect last Dec. 15th.
 - Includes smartphones, toys and some consumer electronics
 - Cut in half the 15% tariff on \$120 bil. Of Chinese goods imposed last Sep. 1st.
 - Keep in place the 25% tariff on \$250 bil. In goods put in place last year.
 - Includes machinery, furniture, chemicals & plastics

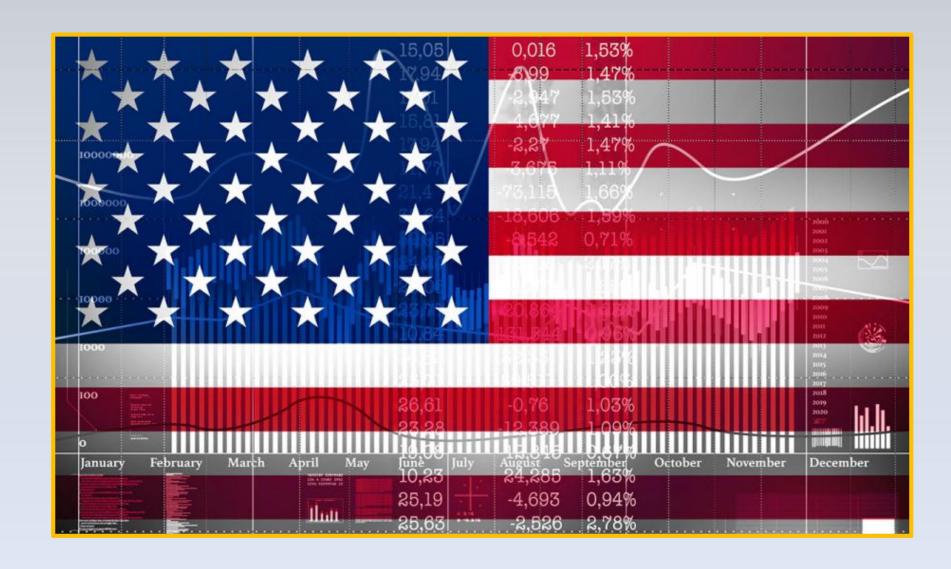
A Couple of Uncertainties About China Still Hanging Out There

Questions:

Will the U.S. be able to <u>monitor and enforce</u> the **Phase 1** trade agreement?

Will the **coronavirus** wind up having a significant impact on global growth?

The U.S. Economy



The U.S. Economy

Will 2020 (an election year) end in:

1) A Recession

or

2) Continued Economic Growth

11 U.S. Economic Expansions Since 1950

(Average Duration: 61 months)

•	Nov 1949	July 1953	46 months
•	Jun 1954	Aug 1957	39 months
•	May 1958	Apr 1960	24 months
•	Mar 1961	Dec 1969	106 months
•	Dec 1970	Nov 1973	36 months
•	Apr 1975	Jan 1980	58 months
•	Aug 1980	Jul 1981	12 months
•	Dec 1982	Jul 1990	92 months
•	Apr 1991	Mar 2001	120 months
•	Dec 2001	Dec 2007	73 months

Source: NBER; Real Estate Center at Texas A&M University

present

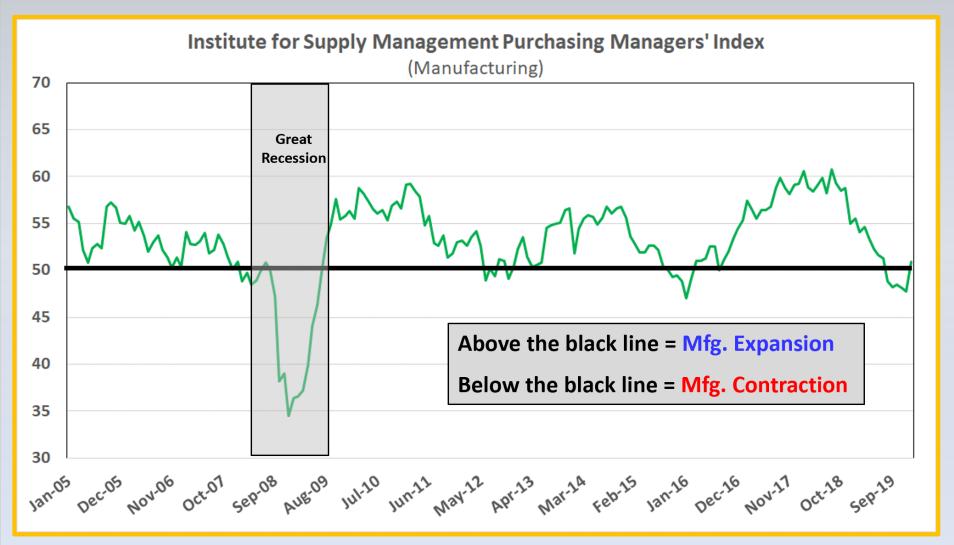
June 2009

130 months

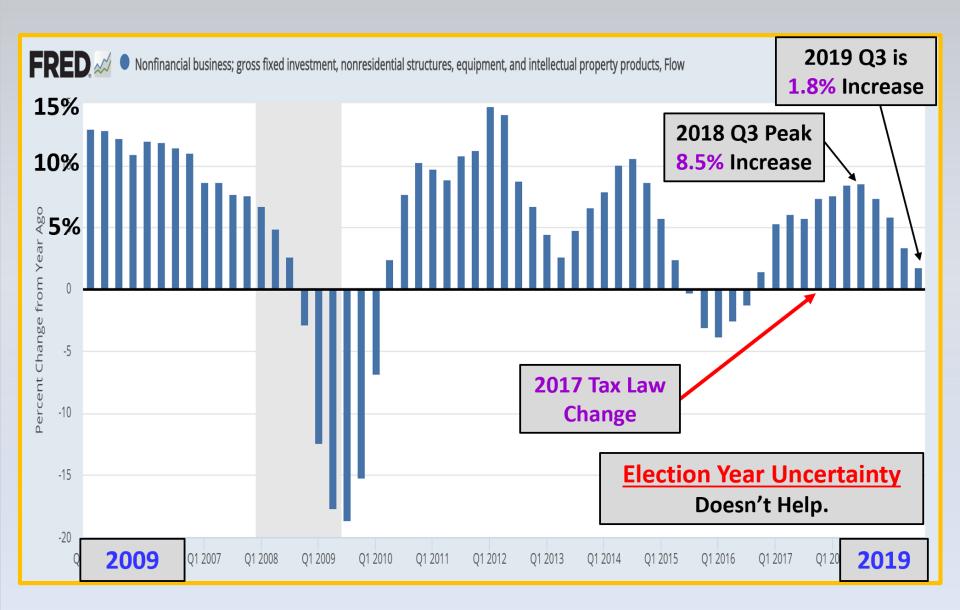
U.S. Economy:

Negative Economic Indicators

The Manufacturing Sector Contracted From August, 2019 to Dec. 2019

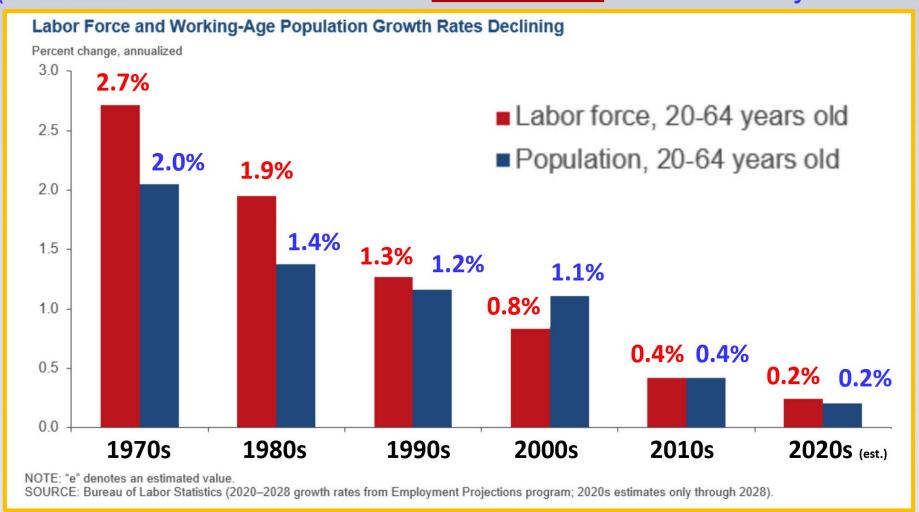


Business Investment Is Steadily Declining



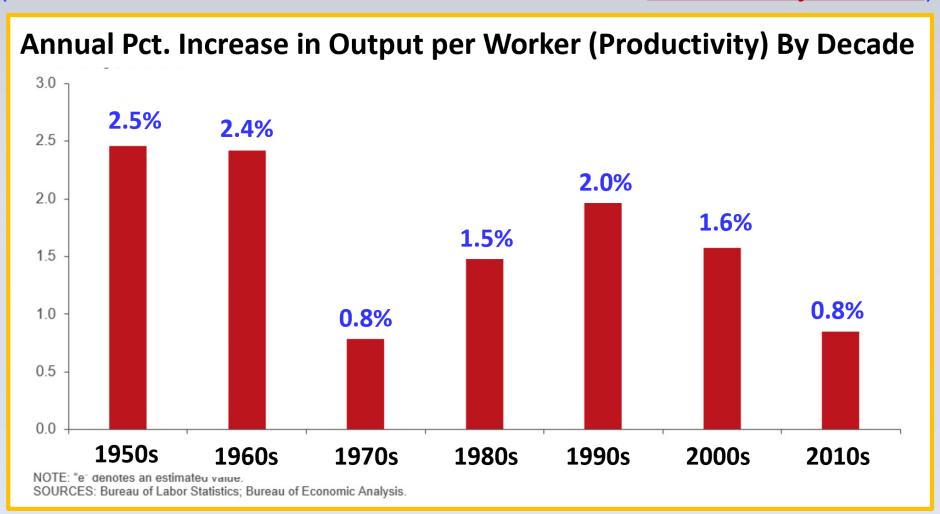
The Two Components That Drive GDP Growth Have Been Slowing

(Problem: GDP Growth Needs Labor Force & Productivity Growth)

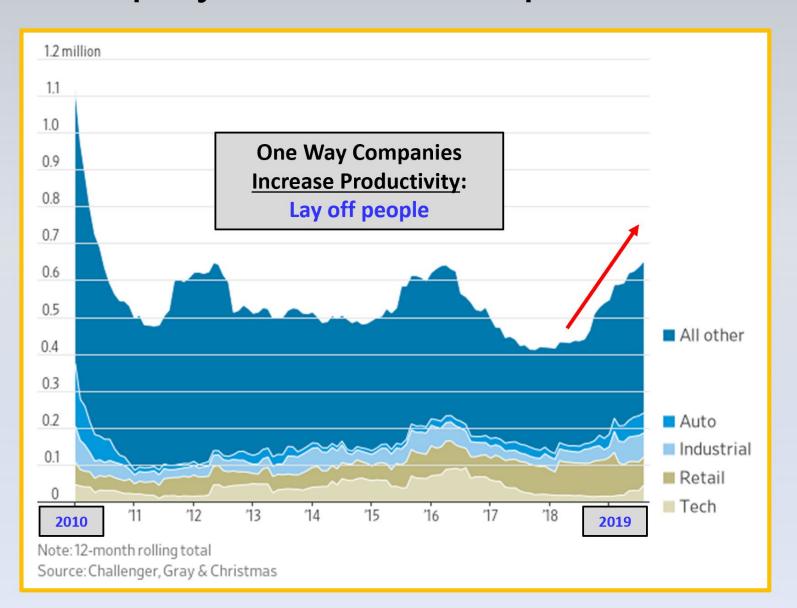


The Two Components That Drive GDP Growth Have Been Slowing

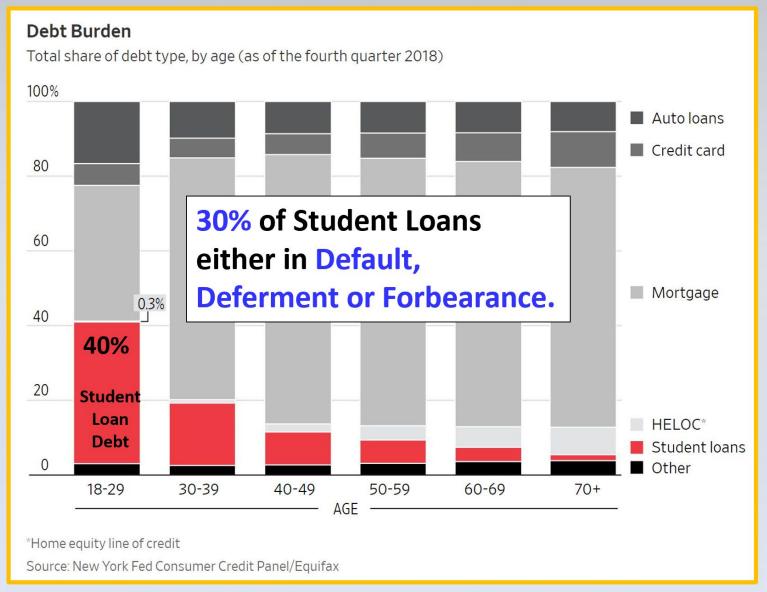
(Problem: GDP Growth Needs Labor Force & Productivity Growth)



Future Job Cuts Announced By U.S.-Based Employers Trended Up In 2019



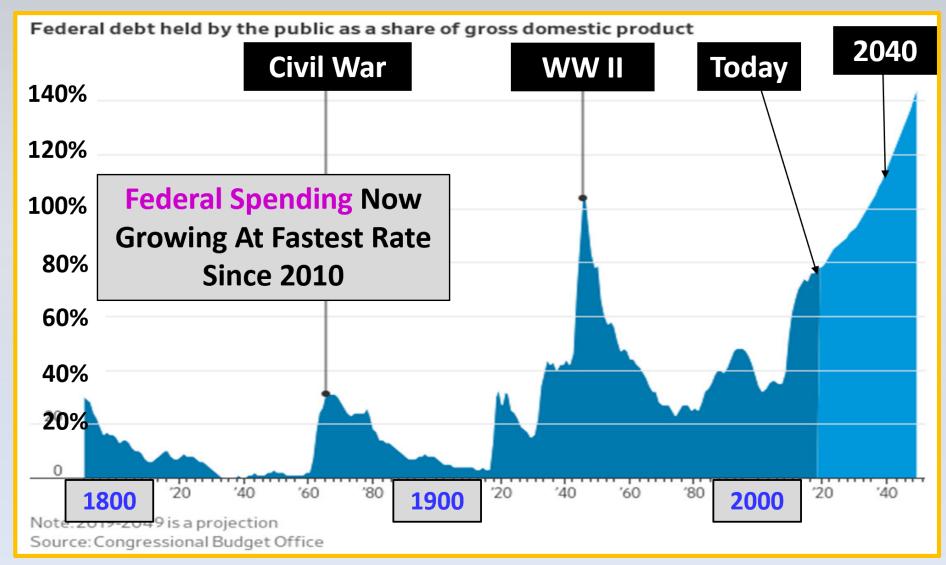
About 40% of Total Debt for 18 to 29 Year Olds is Student Loan Debt



This could have long-term economic consequences.

Neither Political Party Cares About Deficits

(Interest Payments Will Crowd Out Other Spending)

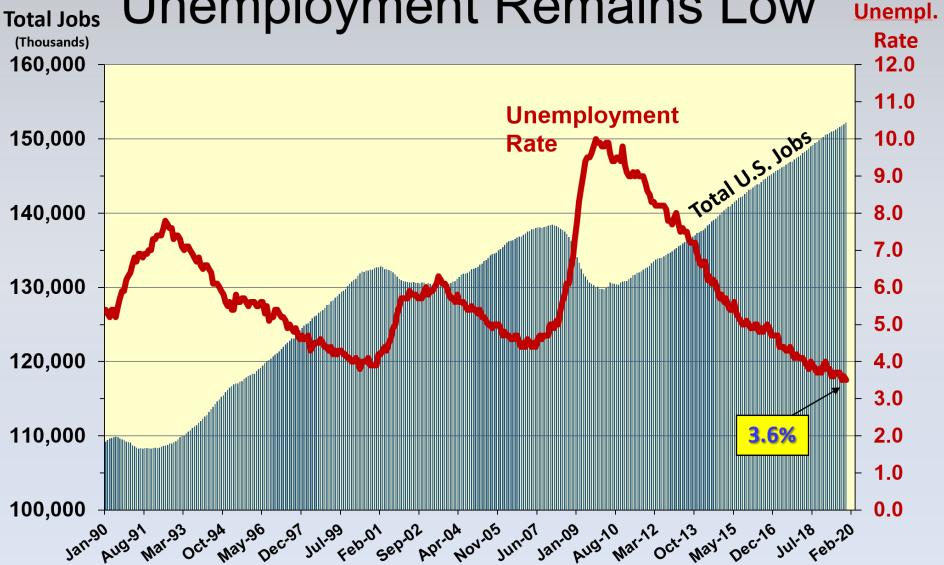


Source: Wall Street Journal

U.S. Economy:

Positive Economic Indicators

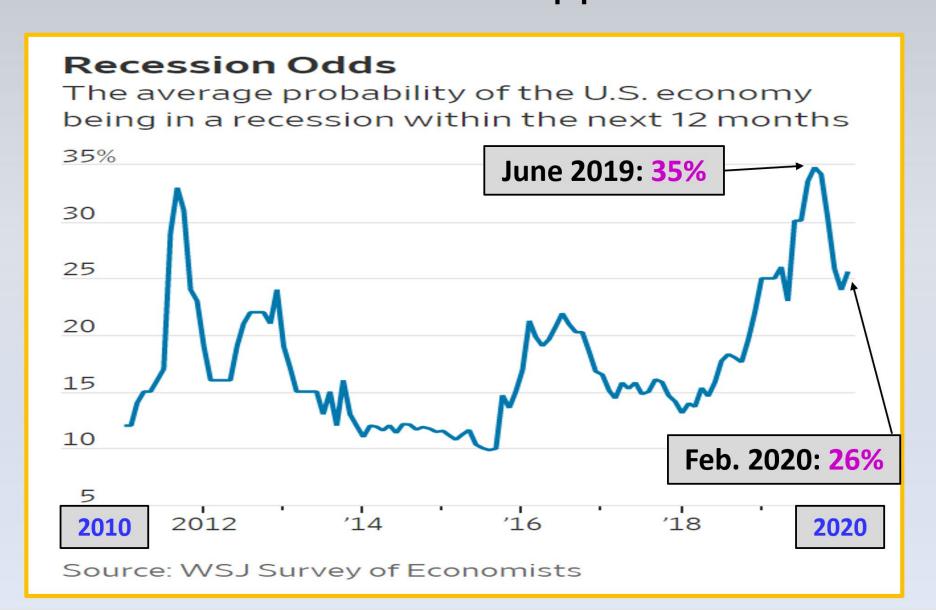
U.S. Jobs Continue to be Created and U.S. Unemployment Remains Low Unemployment



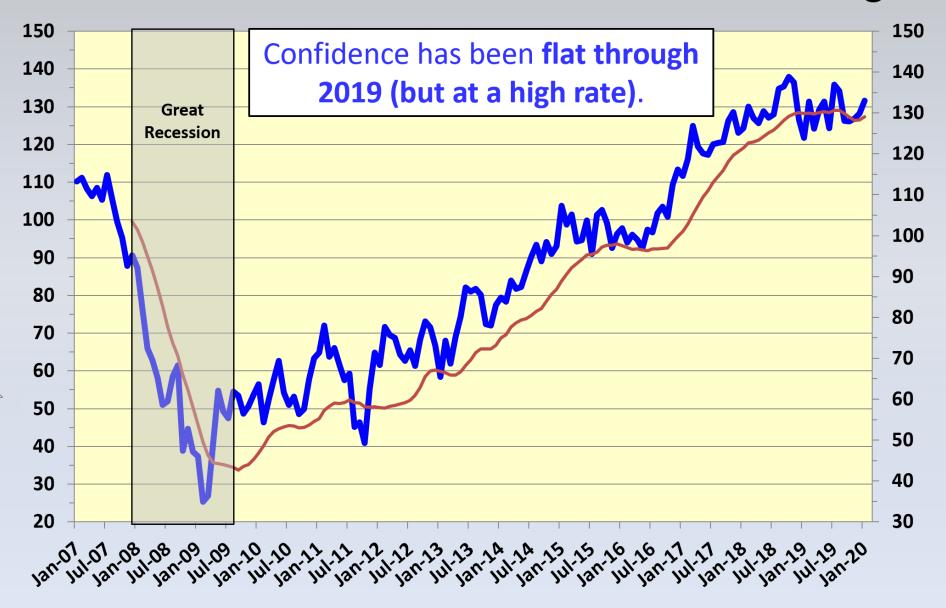
Real GDP Predicted To Slow A Bit In 2020 But Still Solid



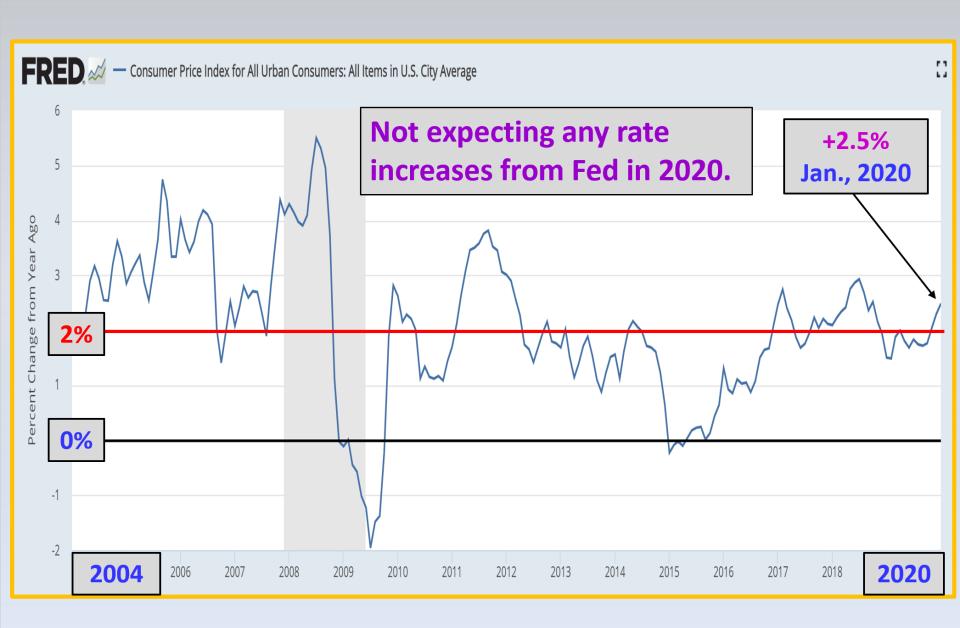
Economists' Probability of Recession in Next 12 Months Has Dropped Since June



U.S. Consumer Confidence Still Strong



Inflation Is Just Above The Fed's 2% Goal



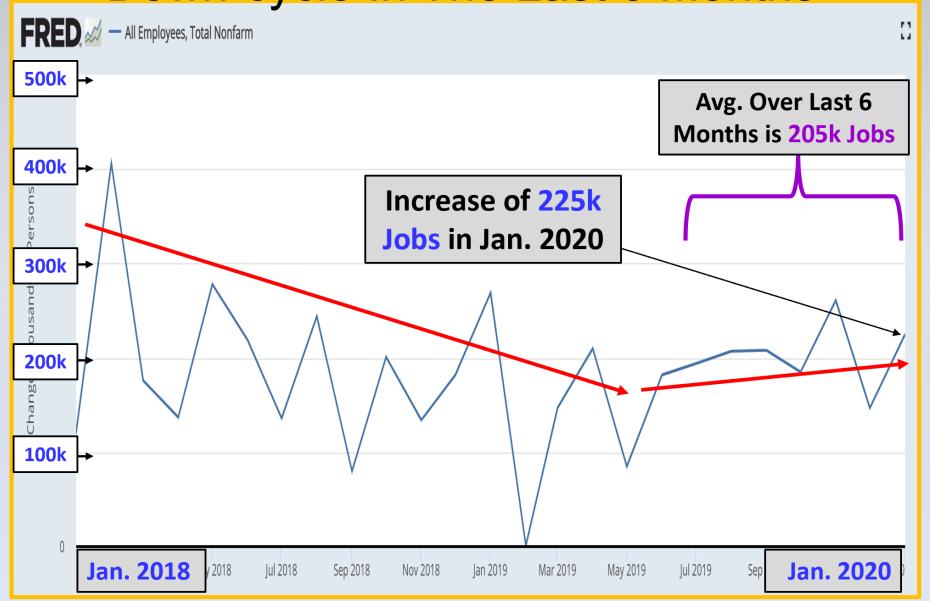
Inflation "Expectations" For The Next Five Years Are Still Quite Low



Lower expectations may be due to: 1) more efficient markets and 2) more substitutes.

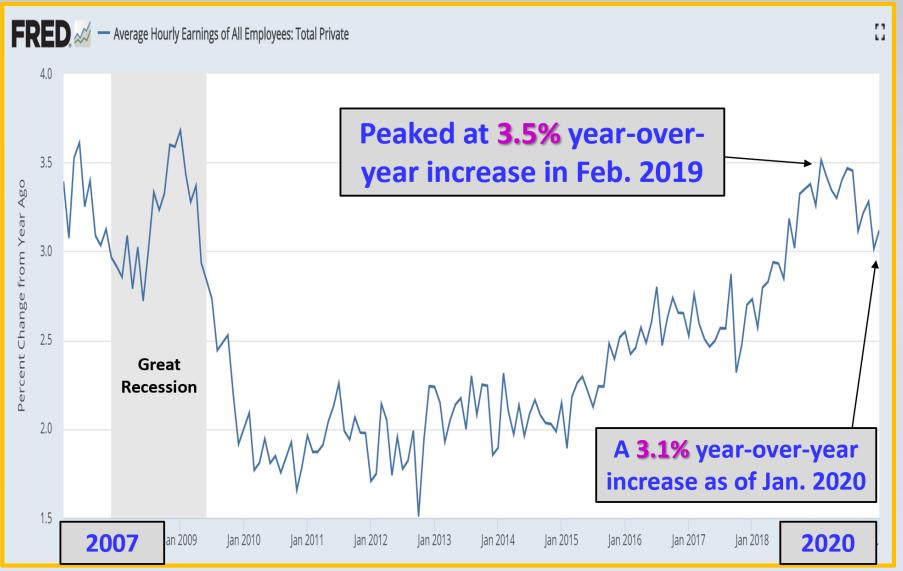
Source: St. Louis Federal Reserve FRED (monthly data thru January, 2020)

U.S. Monthly Job Growth Has Broken The Down-cycle In The Last 6 Months

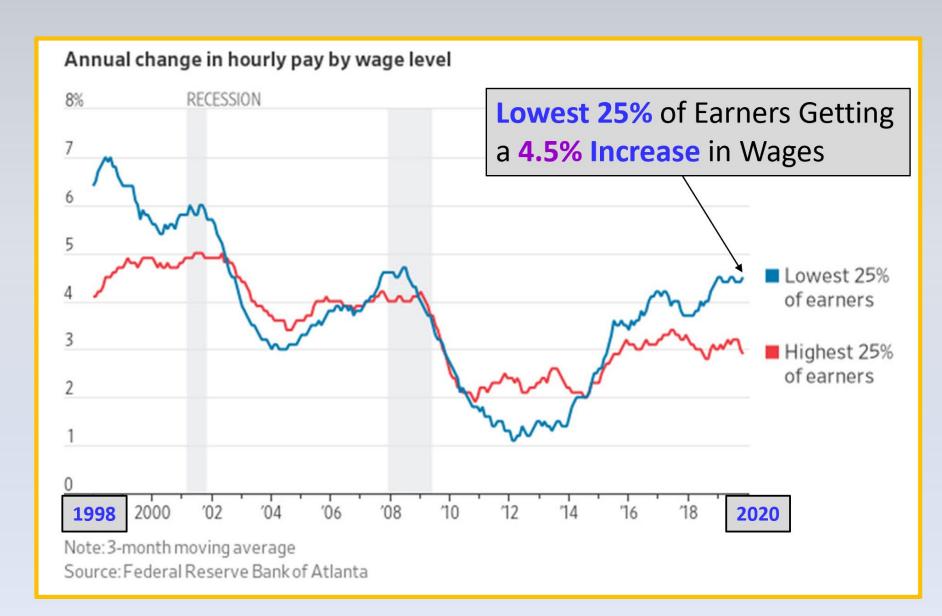


Source: St. Louis Federal Reserve FRED (monthly thru Jan. 2020)

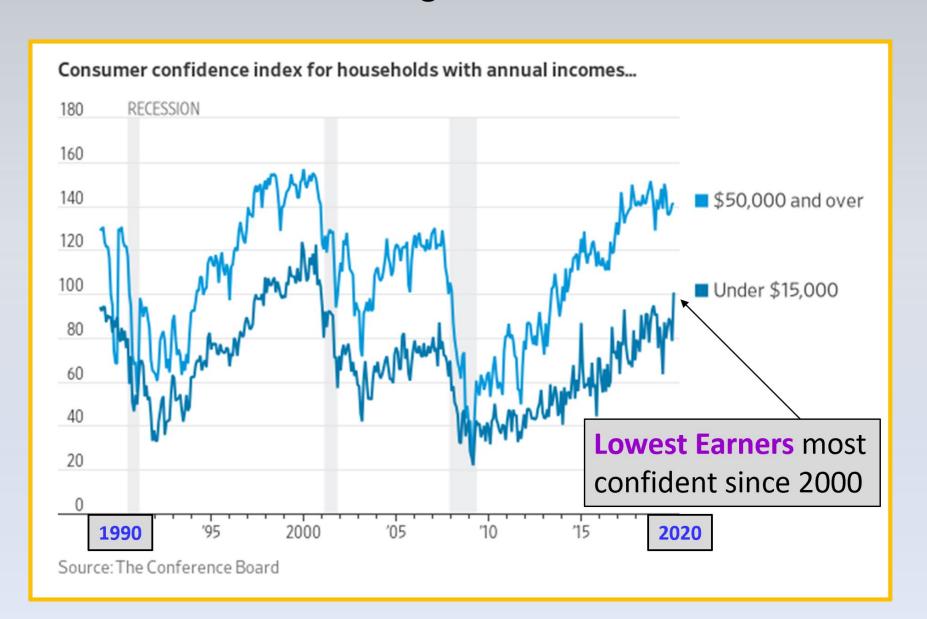
Average Hourly Wage Increases Have Slowed A Bit



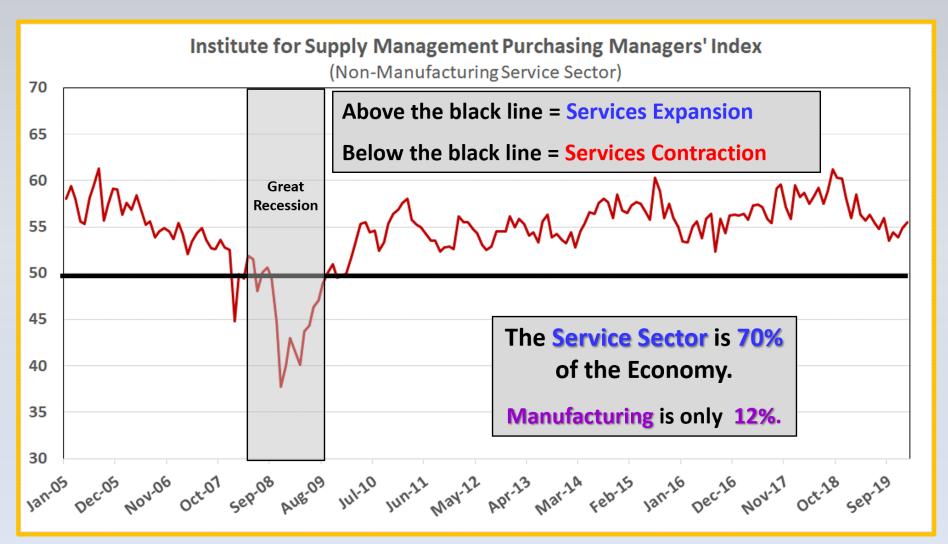
But The Lowest Earners Are Getting Better Wage Increases



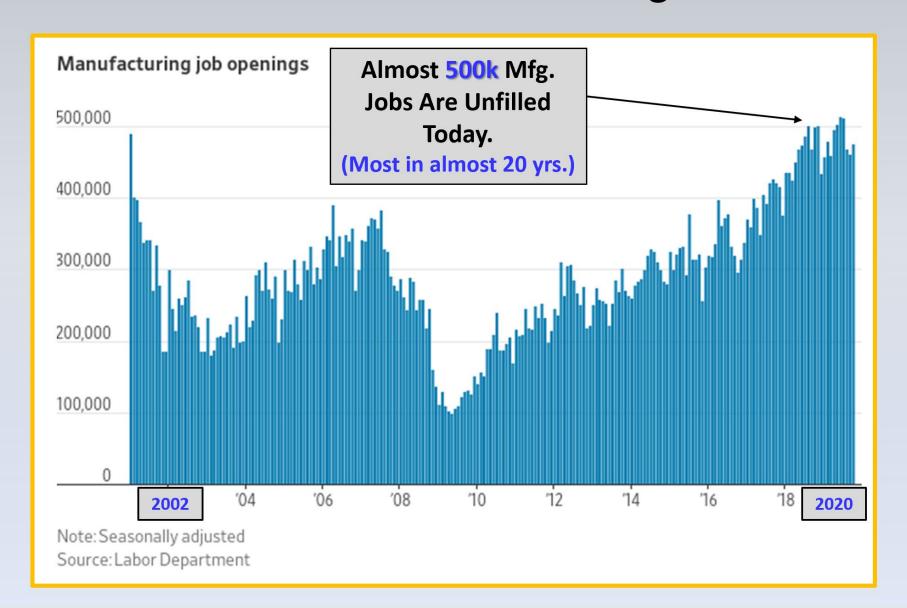
Lowest Earning Consumers Are Also Showing Increasing Confidence



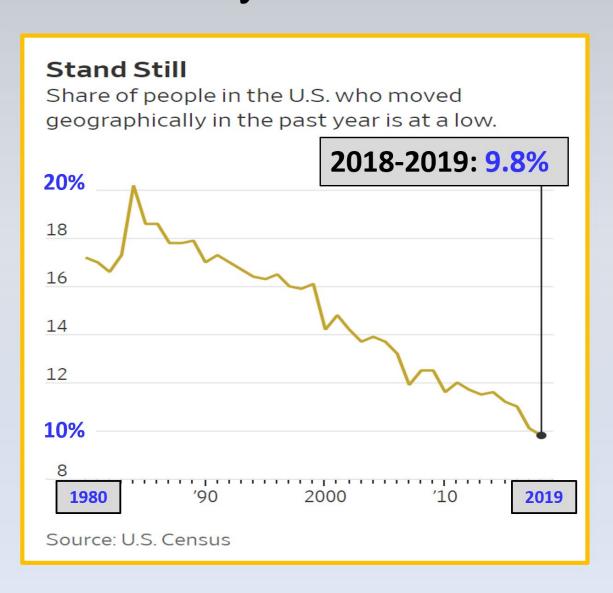
The Service Sector Has Been Expanding Uninterrupted Since August, 2009



And There Are Plenty of U.S. Manufacturing Jobs Available But Remaining Unfilled

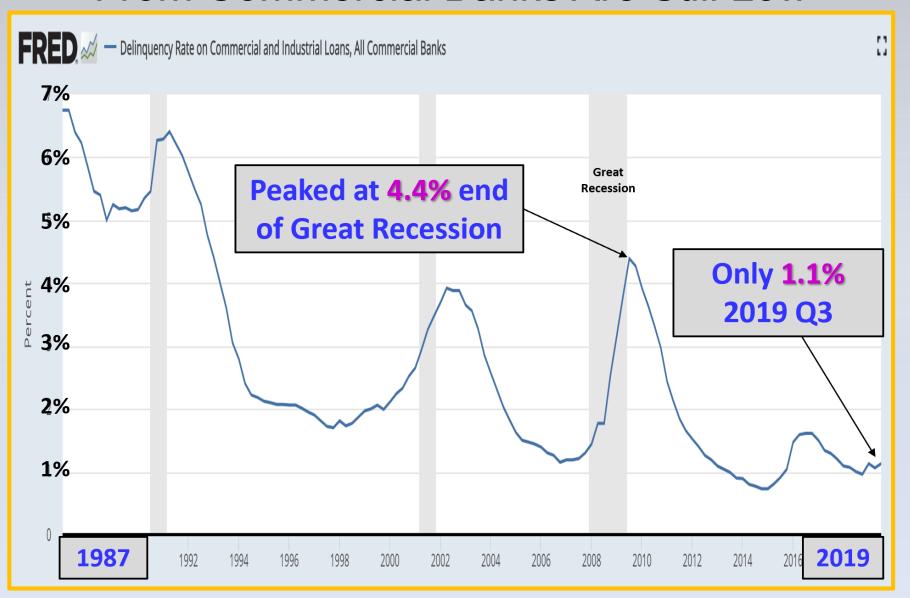


Workers Don't Want To Relocate As Much Today As In Past



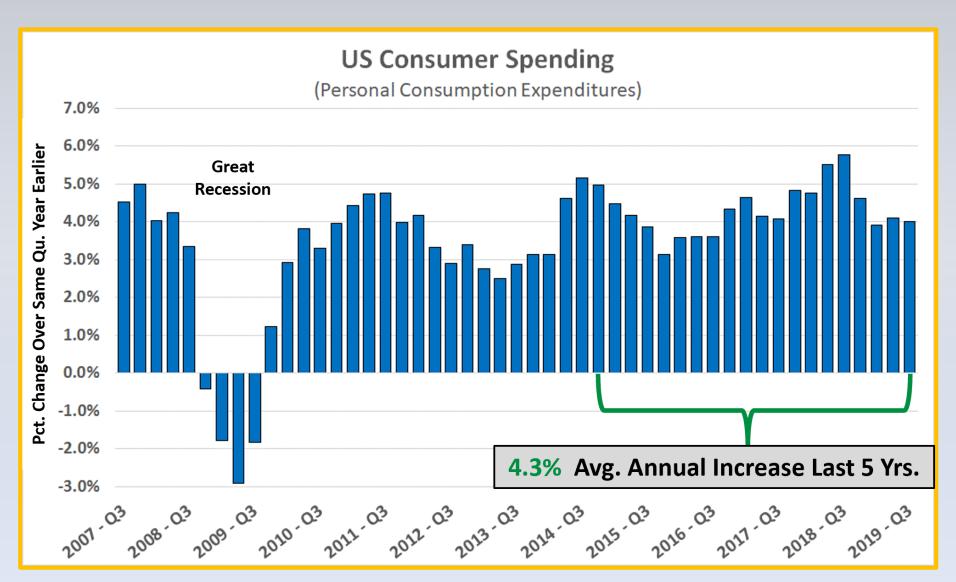
Commercial & Industrial Loan Delinquencies

From Commercial Banks Are Still Low

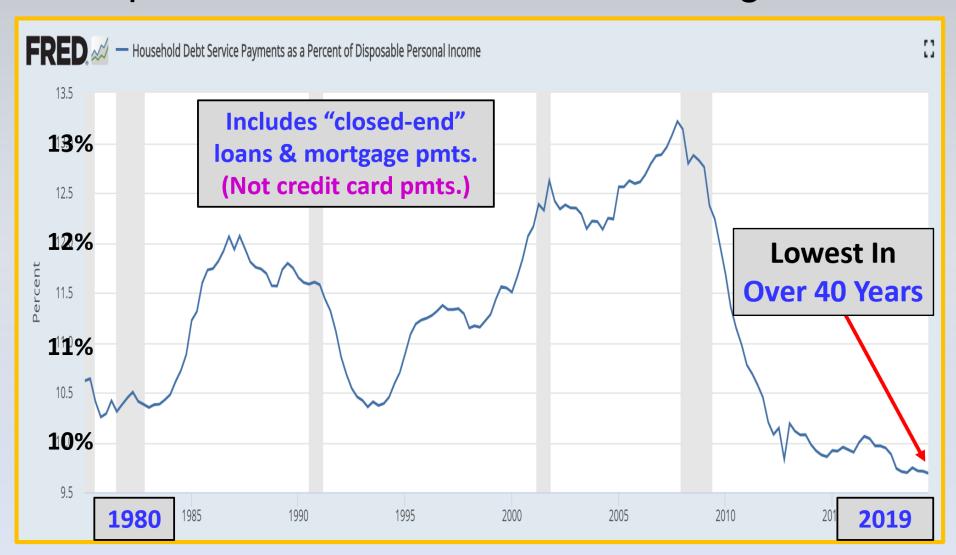


Source: St. Louis Federal Reserve (FRED)

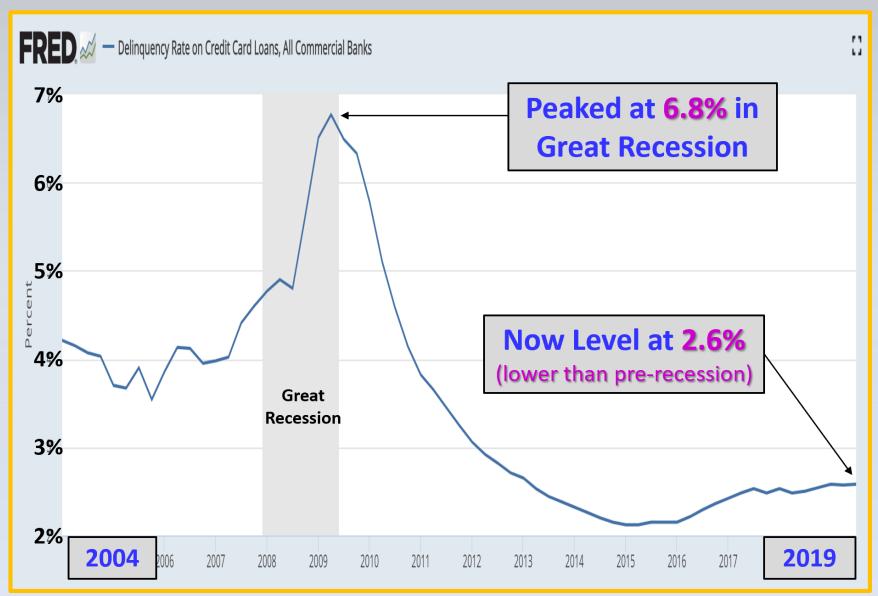
Consumer Spending Remains Strong



Household Debt Service Payments As A Pct. Of Disposable Income Are Still Trending Lower

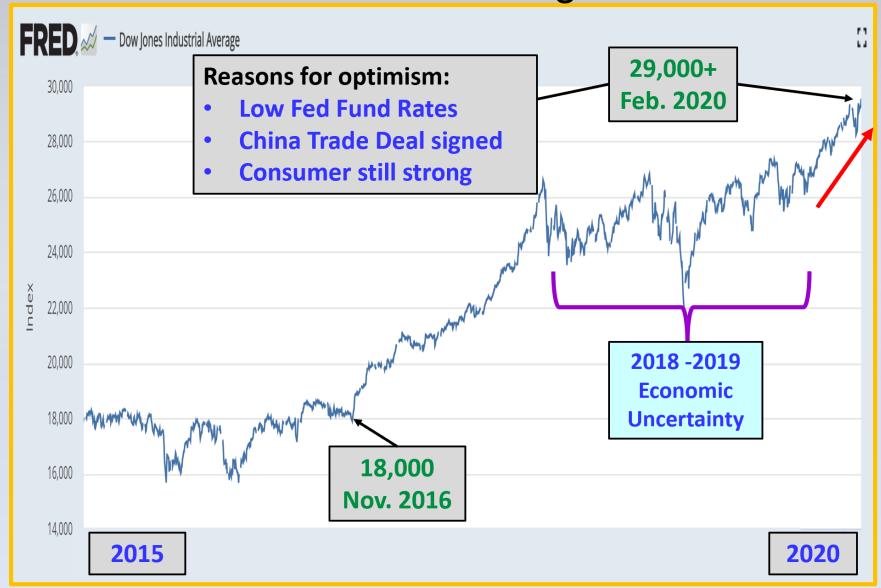


Credit Card Delinquencies Are Remaining Flat At A Low Level



Source: Board of Governors of the Federal Reserve System and St. Louis Fed

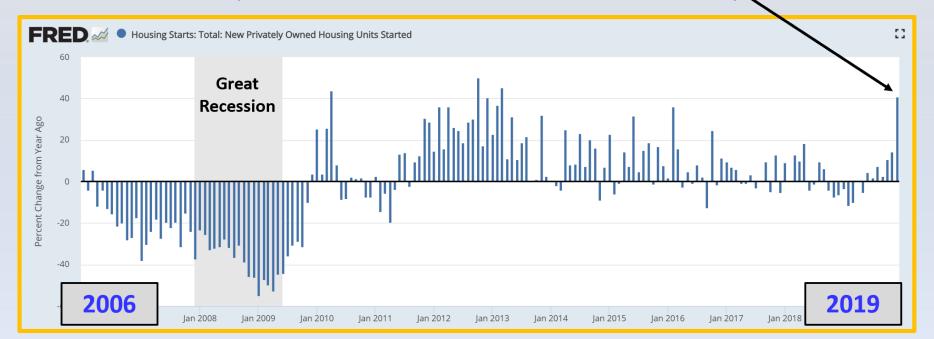
Is The Stock Market Saying Future Economic Conditions Are Looking Better?



A Couple Of Other Positives

Trump signed the new **USMCA Agreement** that will replace NAFTA. (Should be a plus for both the U.S. and <u>Texas</u> economies.)

U.S. Housing Starts in Dec. 2019 were 41% higher than Dec. 2018. (Lower interest rates & better weather)

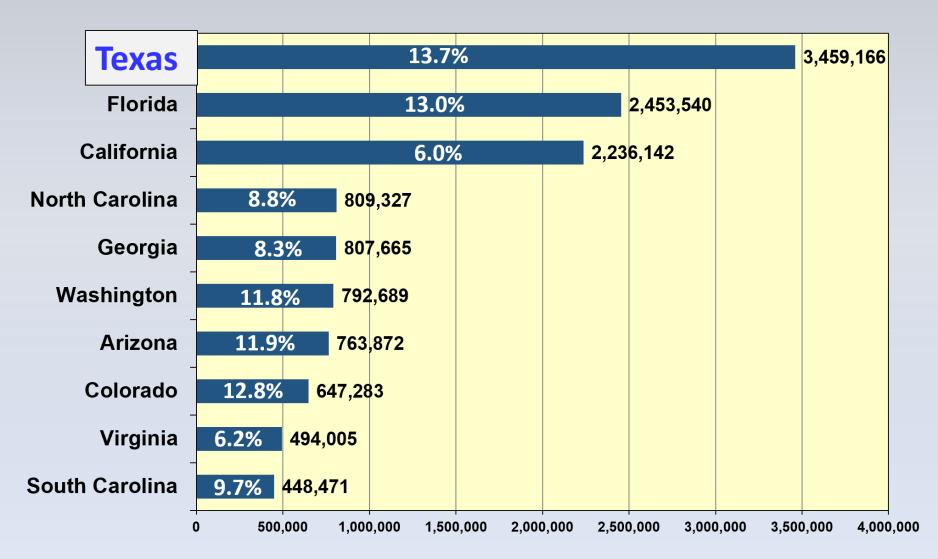


The Texas Economy



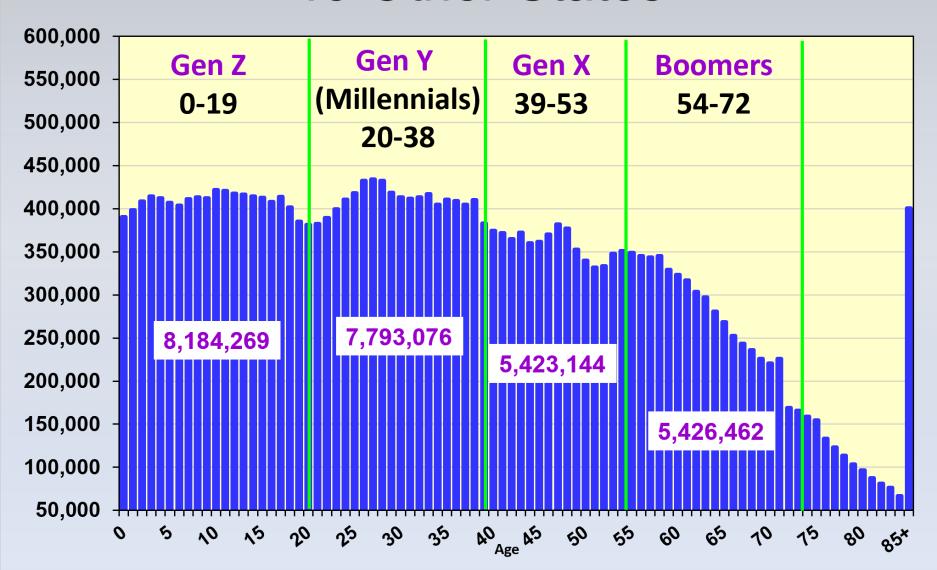
2010-2018 Population Growth

(Top 10 States by Number of People)



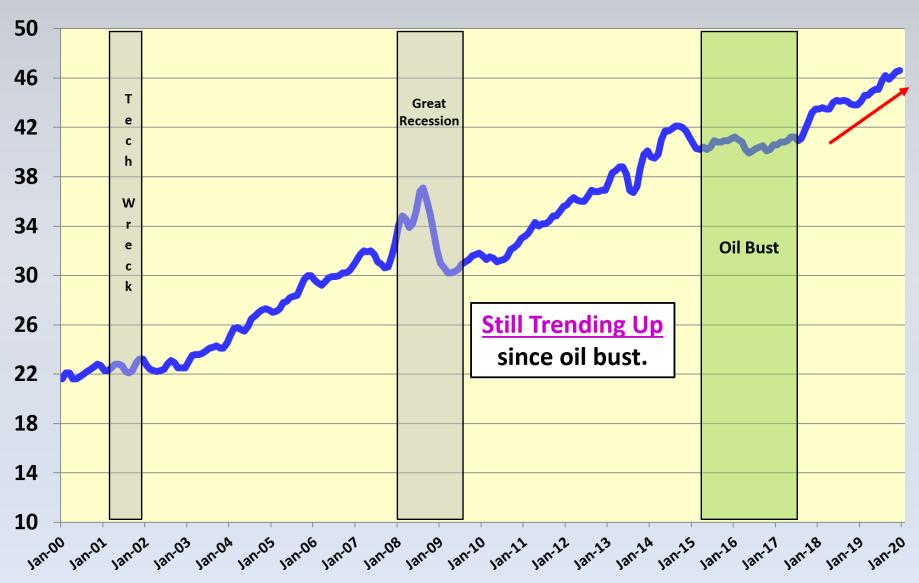
Source: U.S. Census Bureau & Real Estate Center at Texas A&M University

Texas Population is Young Compared To Other States



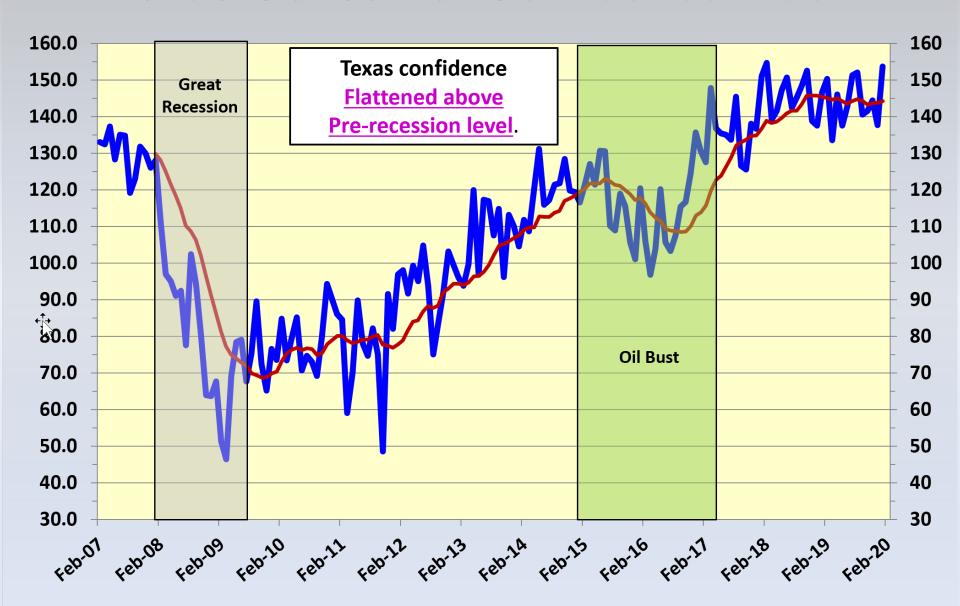
Texas Retail Sales

(Monthly Data Seasonally Adjusted in Billions of Dollars)



Source: Federal Reserve Bank of Dallas

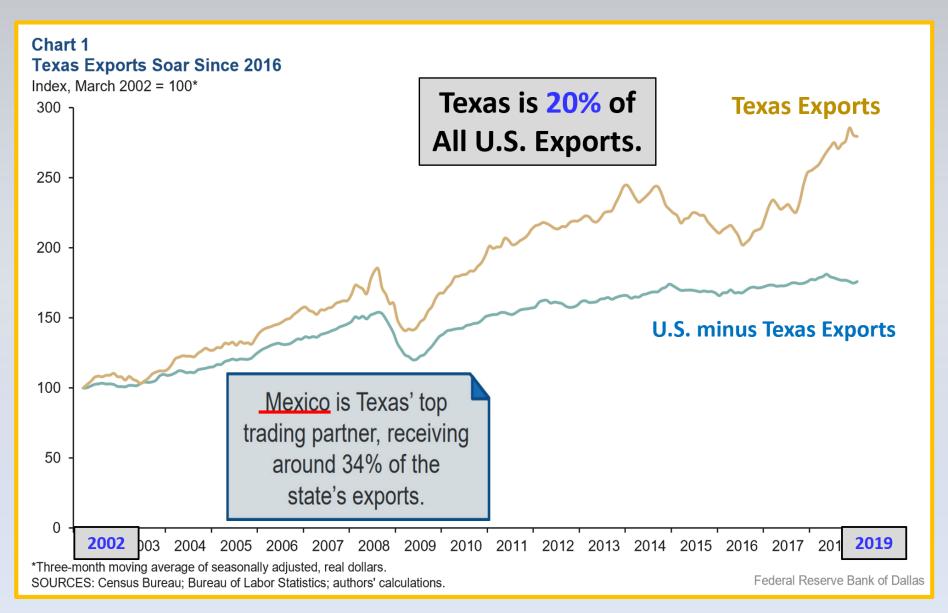
Texas Consumer Confidence Index



Texas Leading Economic Index

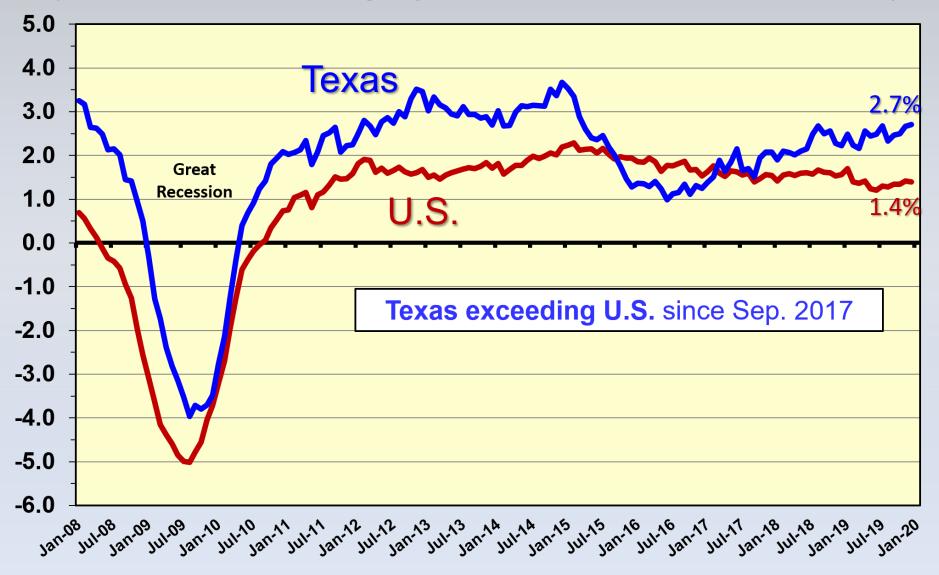


Texas Export Growth Still Strong



Employment Growth Rates Since Recession

(Total Non-farm: Y/Y Change by month for U.S. & Texas thru Dec. 2019)



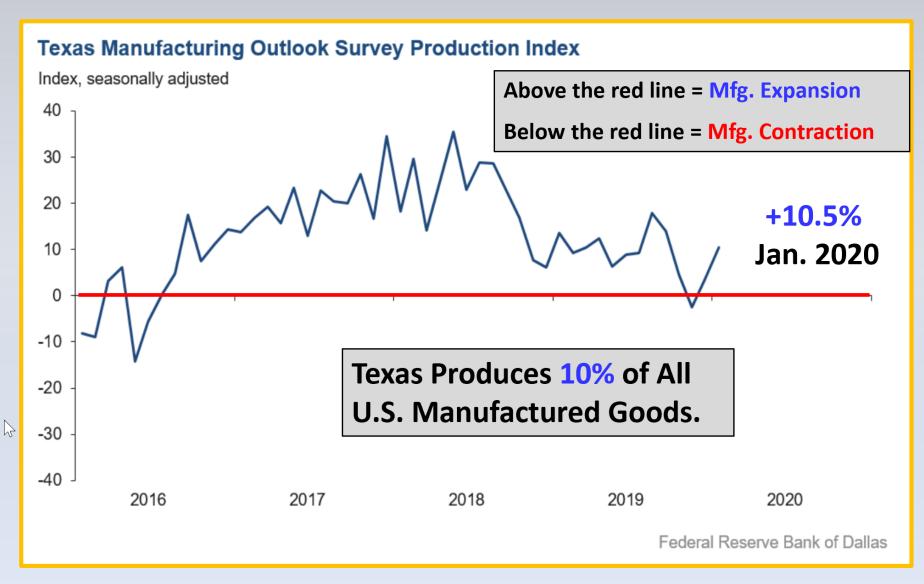
Texas Employment Change by Sector:

(Year-over-Year Chg. Dec. 2018 to Dec. 2019)

	Jobs as of	Change in Jobs Since	Pct.	2018 Avg. Annual
Industry	Dec. 2019	Dec. 2018	Change	Salary (TX)
Construction	808,200	56,900	7.6%	\$65,554
Financial Activities	821,100	37,900	4.8%	\$83,356
Other Services	456,500	20,400	4.7%	\$39,429
Educ. & Health Services	1,778,300	57,700	3.4%	\$48,036
Prof. & Bus. Services	1,806,000	55,900	3.2%	\$74,443 <
Leisure & Hospitality	1,396,200	40,600	3.0%	\$21,861
Trade, Transp. & Utilities	2,619,100	52,700	2.1%	\$52,337
Manufacturing	919,700	18,400	2.0%	\$77,648
Government	1,999,700	16,200	0.8%	\$51,499
Information	203,400	-2,100	-1.0%	\$87,085
Mining & Logging	247,000	-10,400	-4.0%	\$126,997
Total Non-farm Jobs	13,055,200	344,200	2.7%	\$58,622

Source: Haver Analytics for Texas Total Non-farm Employment

Texas Manufacturing Production Has Bounced Back

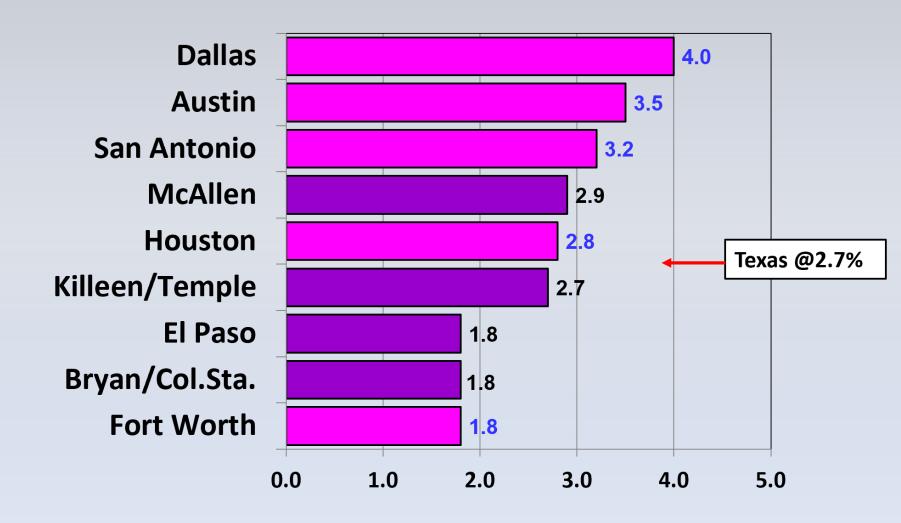


Ranking the Texas Metros



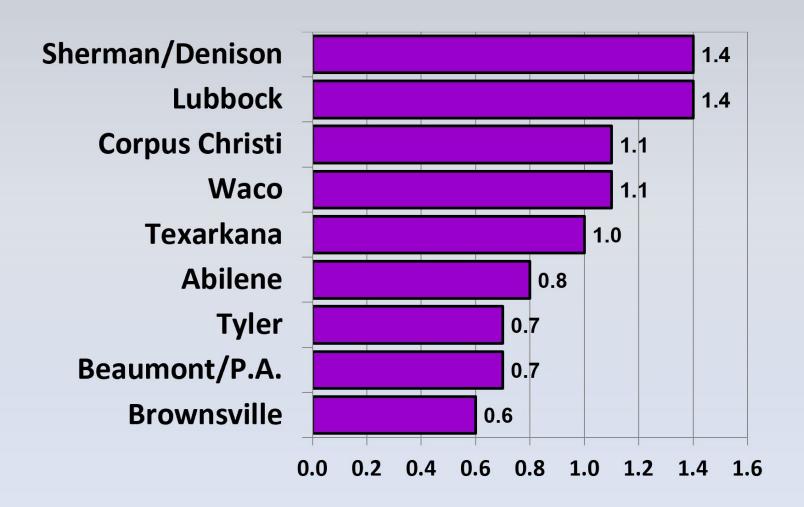
Ranking Job Growth in Past 12 Months

(Total Non-farm: Pct. Increase Dec. 2018 to Dec. 2019)



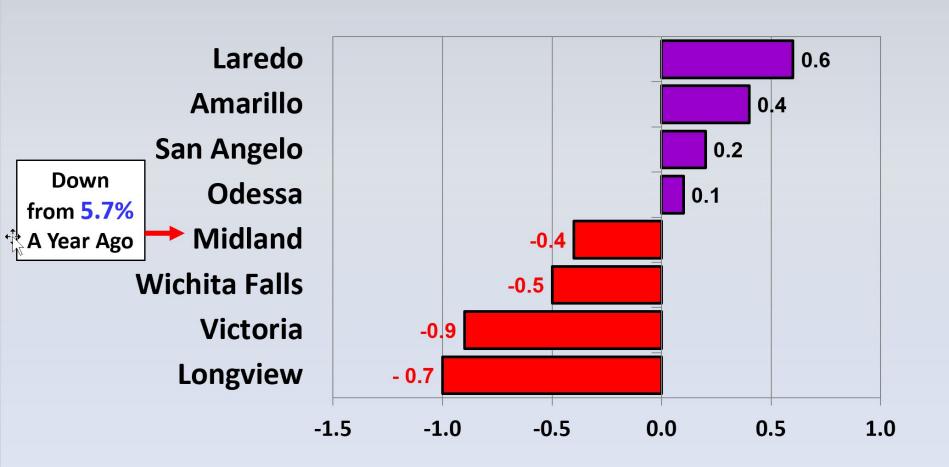
Ranking Job Growth in Past 12 Months

(Total Non-farm: Pct. Increase Dec. 2018 to Dec. 2019)



Ranking Job Growth in Past 12 Months

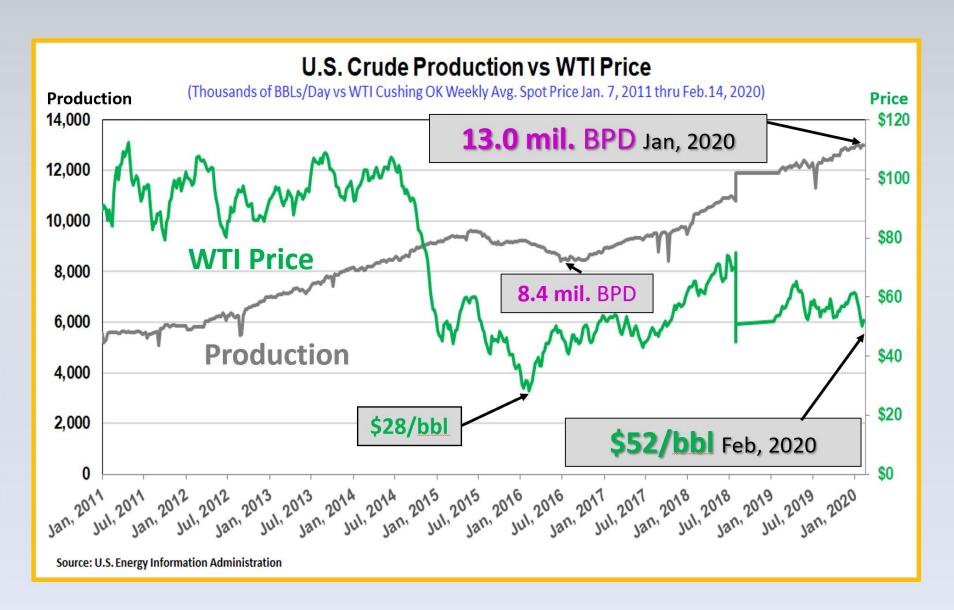
(Total Non-farm: Pct. Increase Dec. 2018 to Dec. 2019)



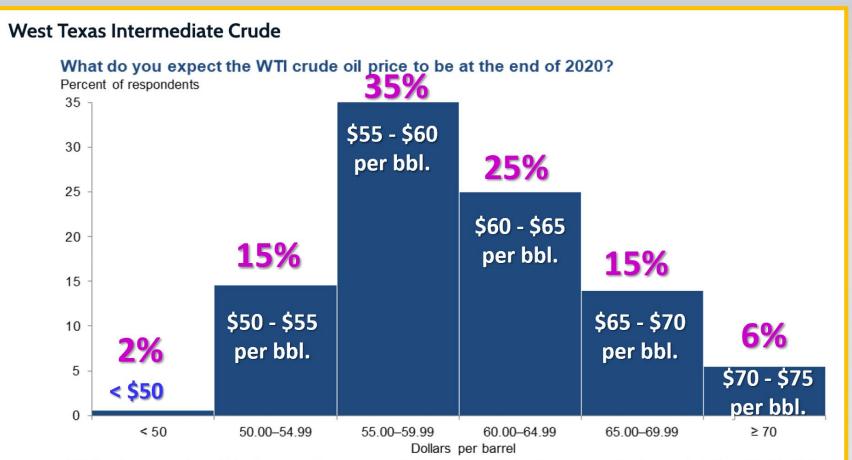
The Energy Market



U.S. Crude Production vs WTI Crude Price



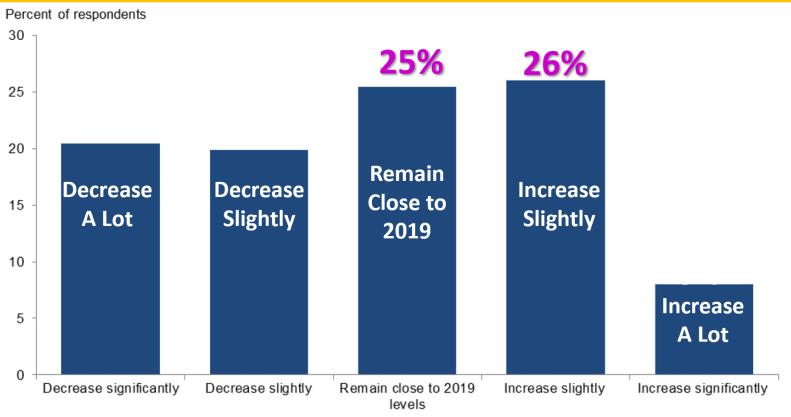
A Dec. 2019 Guess By 160 Oil Executives Where Crude Oil Price Will Be At YE-2020



NOTES: Executives from 164 oil and gas firms answered this question during the survey collection period, Dec. 11–19, 2019. For reference, WTI (West Texas Intermediate) spot prices averaged \$60.19 per barrel during the period. SOURCES: Federal Reserve Bank of Dallas; Energy Information Administration (reference price).

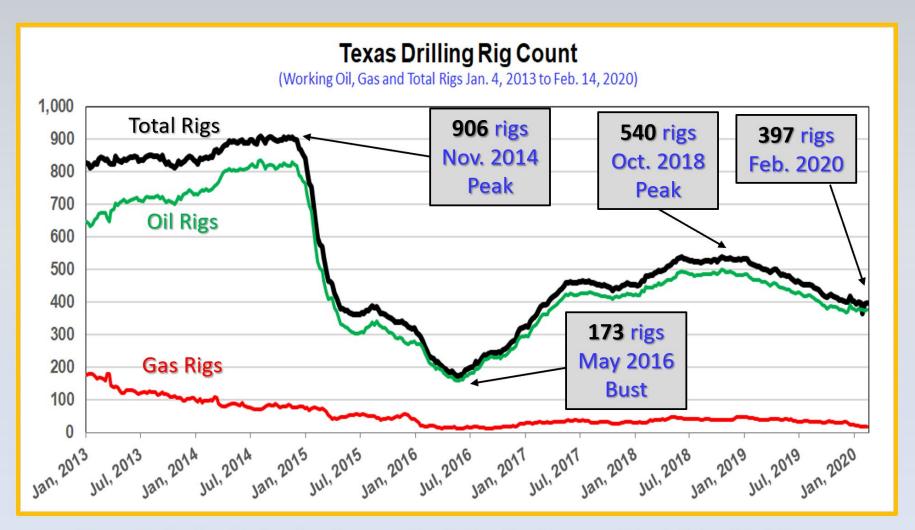
More Than Half Of Firms Expect No or Slight Capital Spending Increases

What are your expectations for your firm's capital spending in 2020 versus 2019?



NOTE: Executives from 161 oil and gas firms answered this question during the survey collection period, Dec. 11–19, 2019. SOURCE: Federal Reserve Bank of Dallas.

Texas Rig Count Down 143 Since Oct.'18

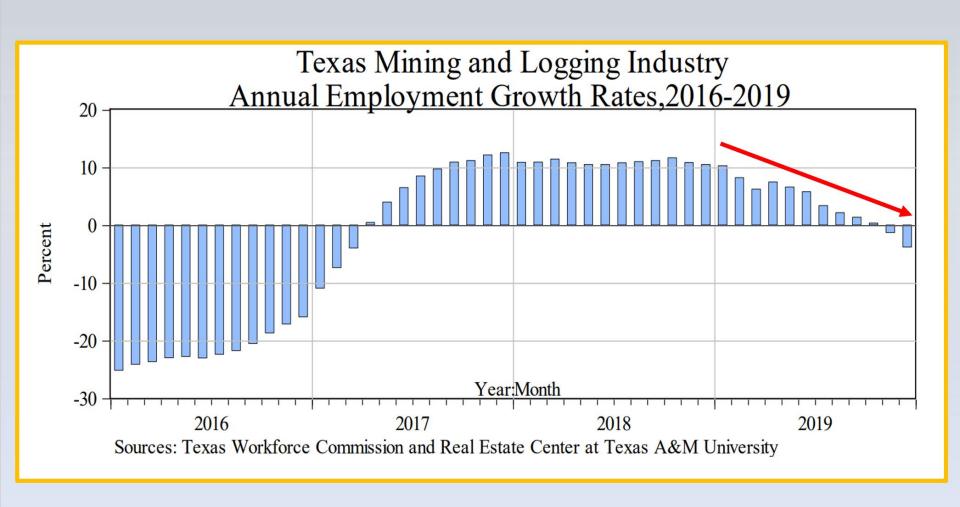


Texas Daily Crude Production: 2014: 3.6 mil. BPD vs 2019: 5.2 mil. BPD

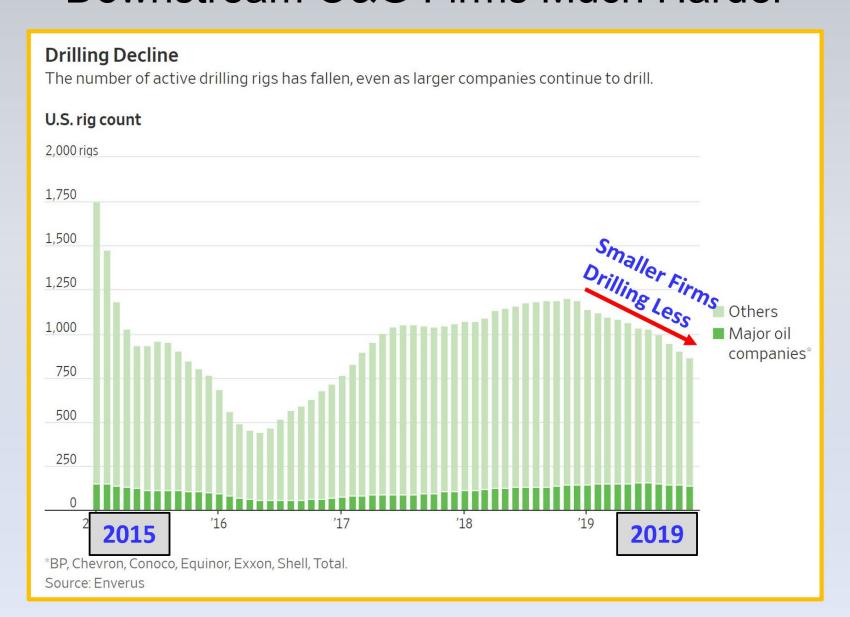
Source: Baker Hughes and Texas Railroad Commission

Texas Mining & Logging Employment Continues To Drift Lower

(Year-over-Year Percentage Change thru Dec. 2019)



The Ongoing Credit Crunch Is Hurting Small Downstream O&G Firms Much Harder



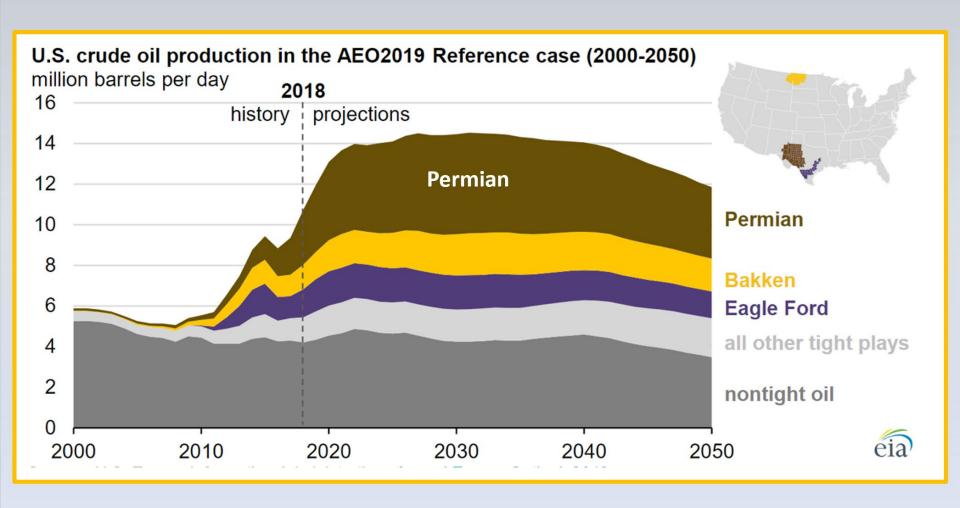
The Forecast for Global Crude Demand Continues to Drop



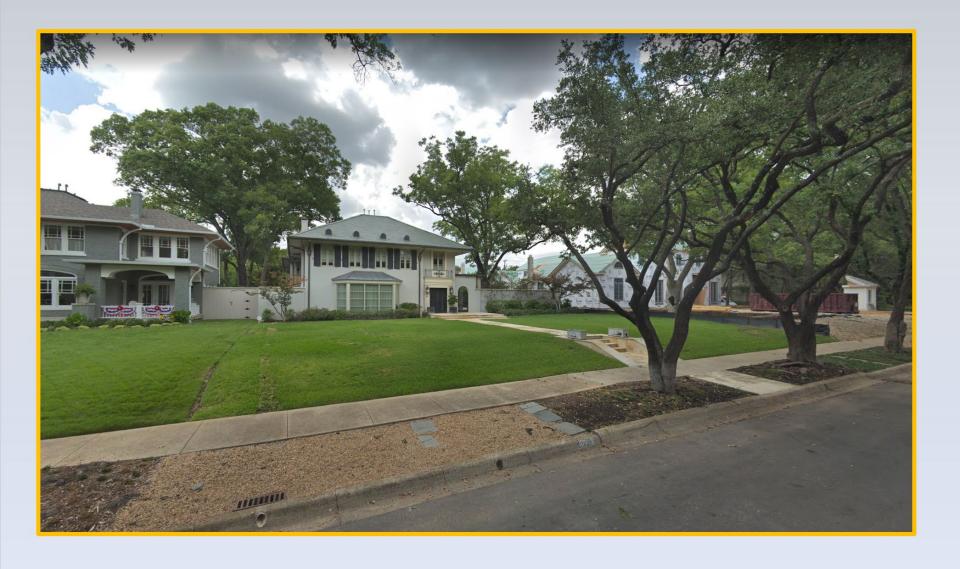
 "At the global level, growth is forecast to slow from a level of 1.4 million b/d in 2018 to around 0.5 million b/d towards the end of the next decade," OPEC said in the report.

Source: CNBC

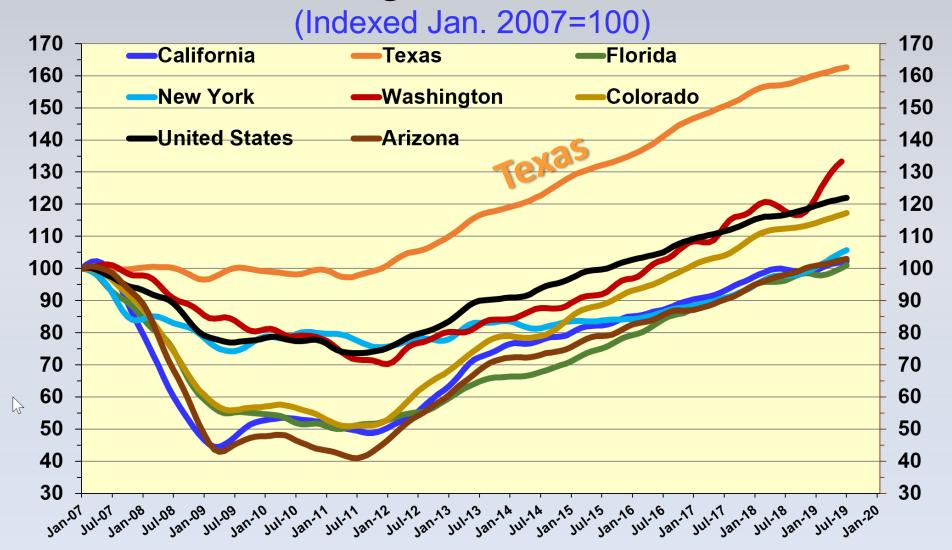
Permian Should Remain The Most Important Crude Oil Play For Decades



Texas Housing Market

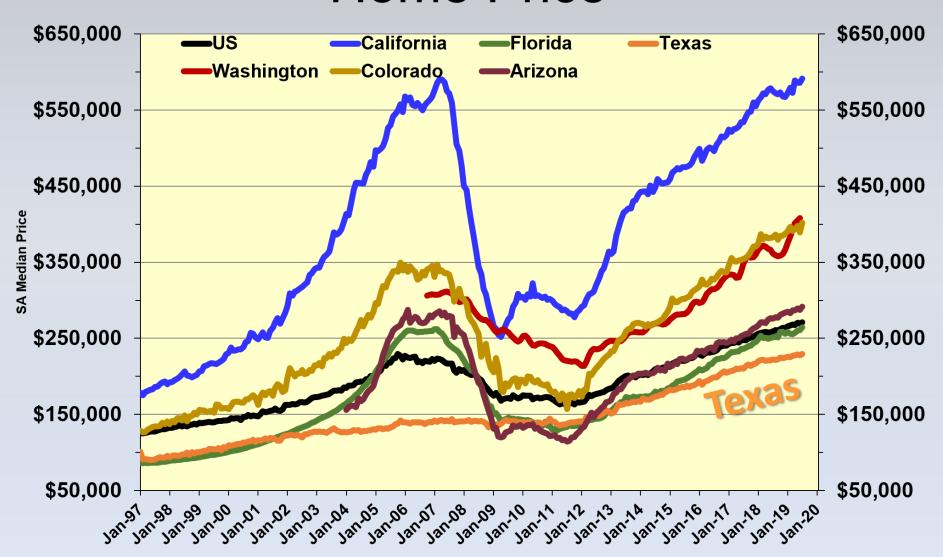


Texas <u>Leads</u> Median Home Price Increases Against These States



Source: NAR; State Associations of Realtors®; Washington RE Center; Real Estate Center at Texas A&M University

But We Are <u>Lowest</u> In Actual Median Home Price



Texas Housing Market Totals

(2019 Summary Statistics)

• Sales: 356,576 (+3.8% over 2018)

Avg. Price: \$291,833 (+3.2% over 2018)

Avg. Price/SF: \$132.00 (+3.9% over 2018)

Median Price: \$240,000 (+3.2% over 2018)

Median Price/SF: \$121.00 (+4.2% over 2018)

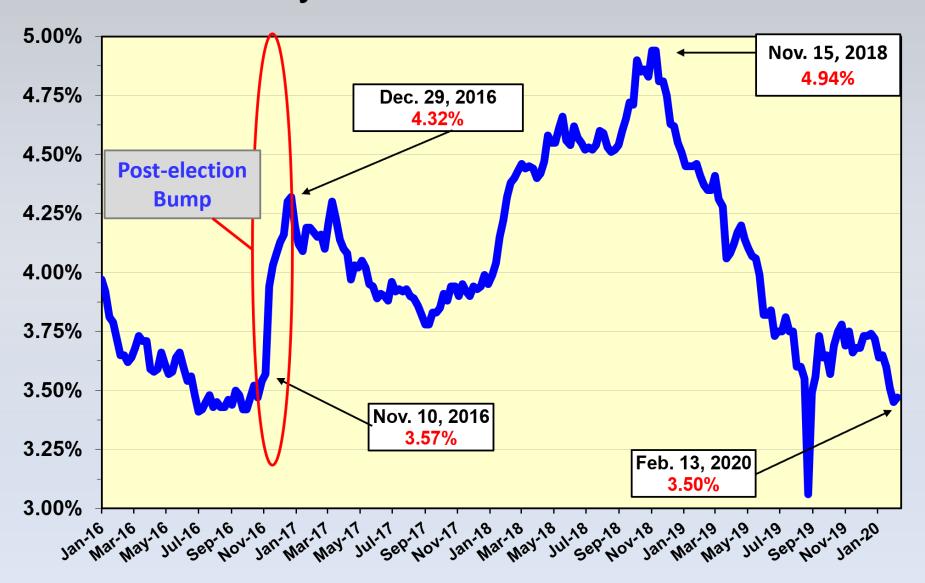
• New Listings: 504,408 (+3.5% over 2018)

Dec. Mo. Inventory: 3.1 (vs. 3.2 in Dec. 2018)

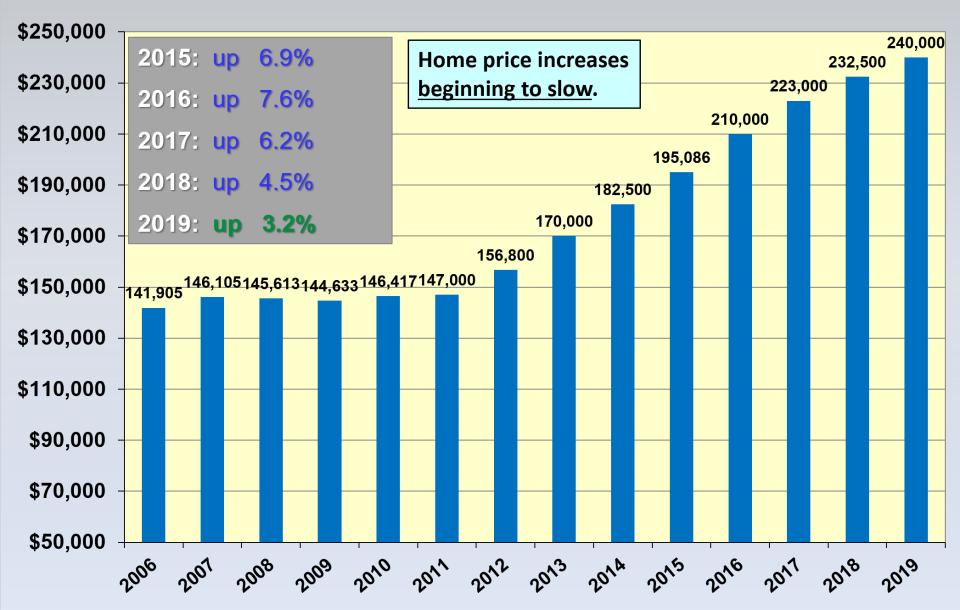
Texas Home Sales



Weekly 30-Year Fixed Mortgage Rate Considerably Lower Than Nov. 2018 Peak

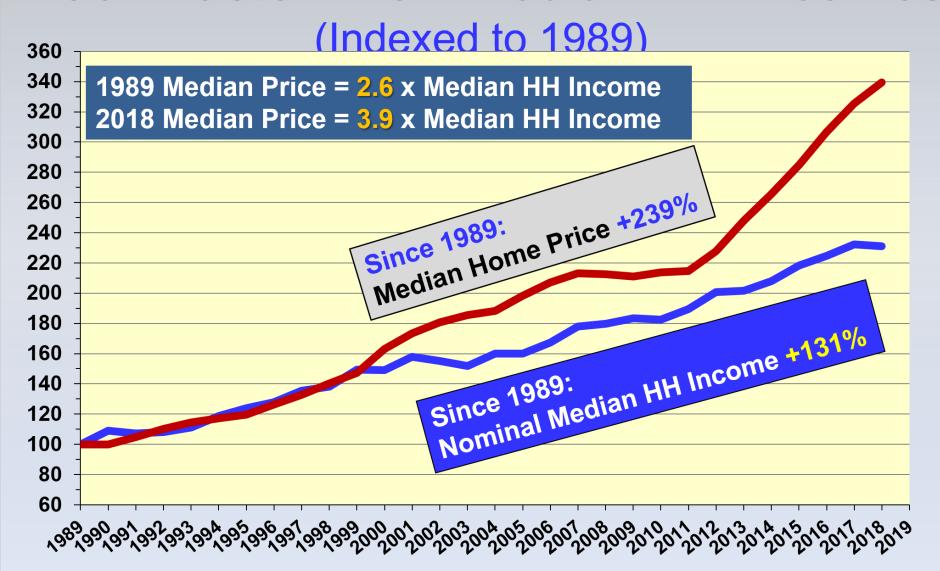


Texas Median Home Prices

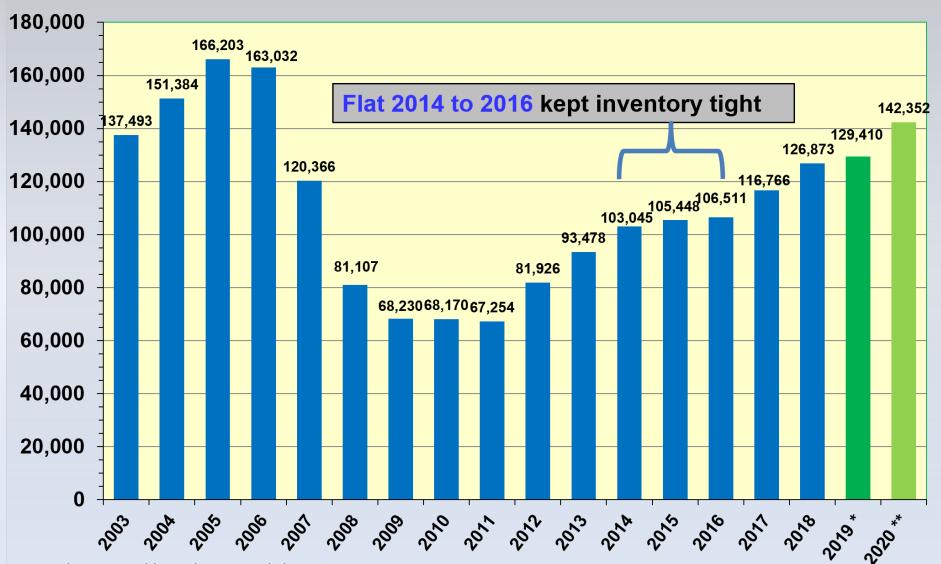


Source: Real Estate Center at Texas A&M University (New & Used Homes Sold thru MLS's)

Texas Median Home Prices Increasing Much Faster Than Median HH Incomes



Texas Single-Family Building Permits



^{*}Estimated based on actual thru Nov.

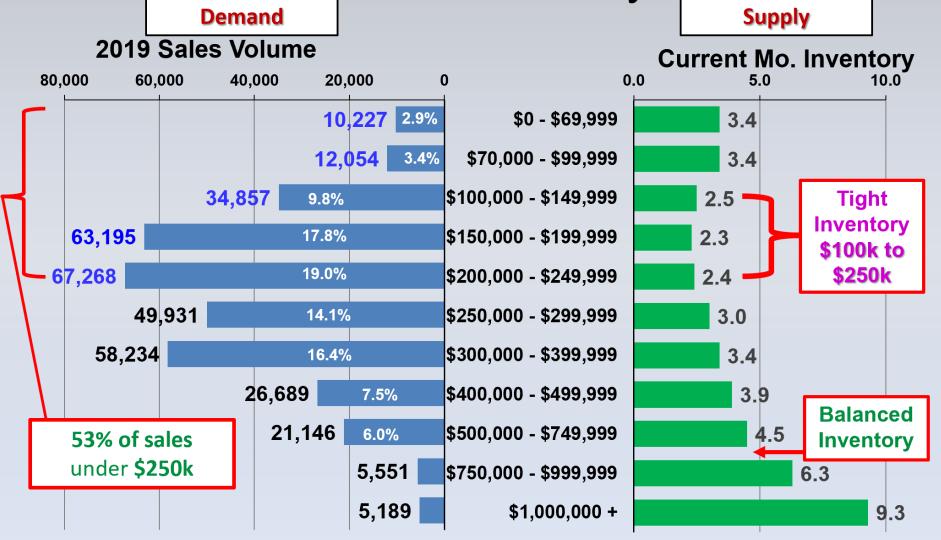
^{**}Forecasted

Texas Months' Inventory Still Quite Low

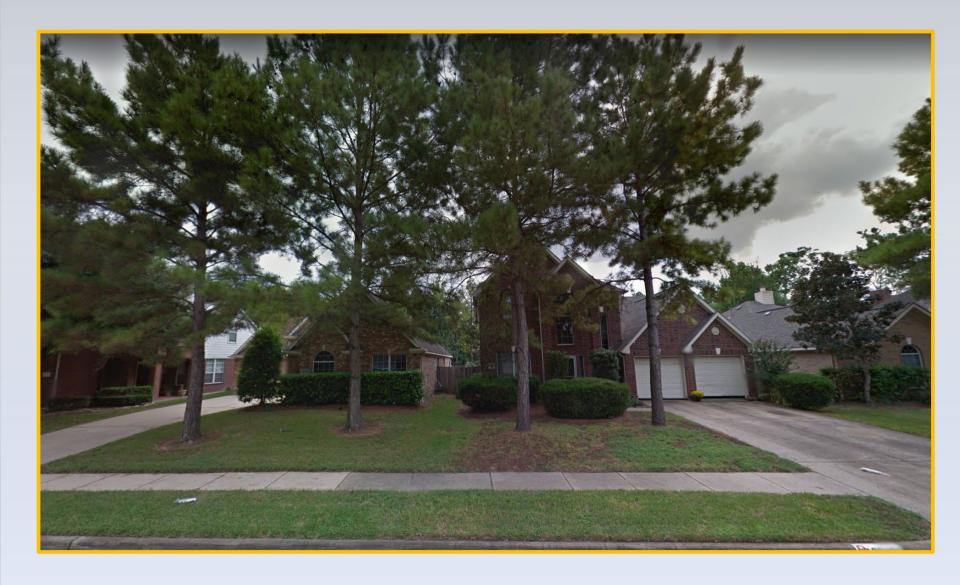
(Homes Sold Thru MLS thru Dec., 2019)



Texas 2019 Home Sales & Current Months Inventory by Price



Major Metros Housing Markets



Austin MSA Housing Market

(2019 Summary Statistics)

• Sales: 36,639 (+5.9% over 2018)

Avg. Price: \$393,448 (+3.6% over 2018)

• Avg. Price/SF: \$190.00 (+4.0% over 2018)

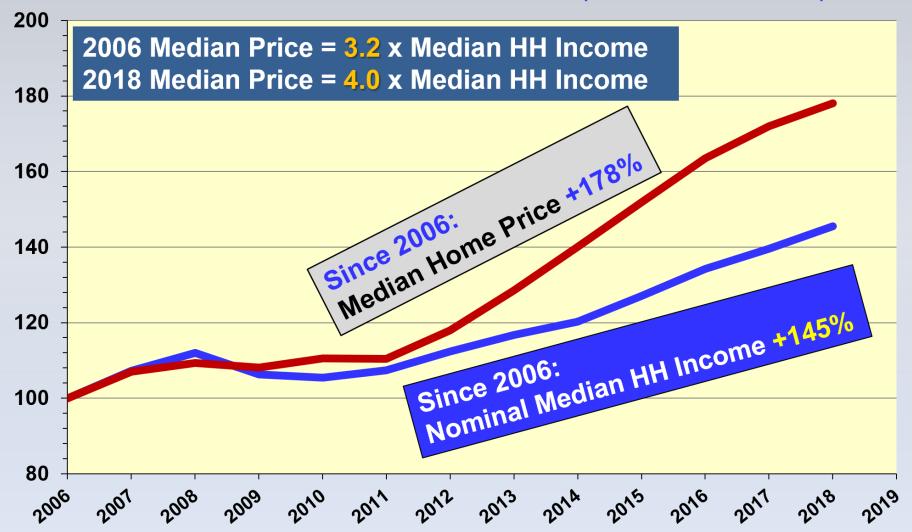
• Median Price: \$315,000 (+3.3% over 2018)

Median Price/SF: \$159.00 (+3.3% over 2018)

• New Listings: 43,866 (+0.7% over 2018)

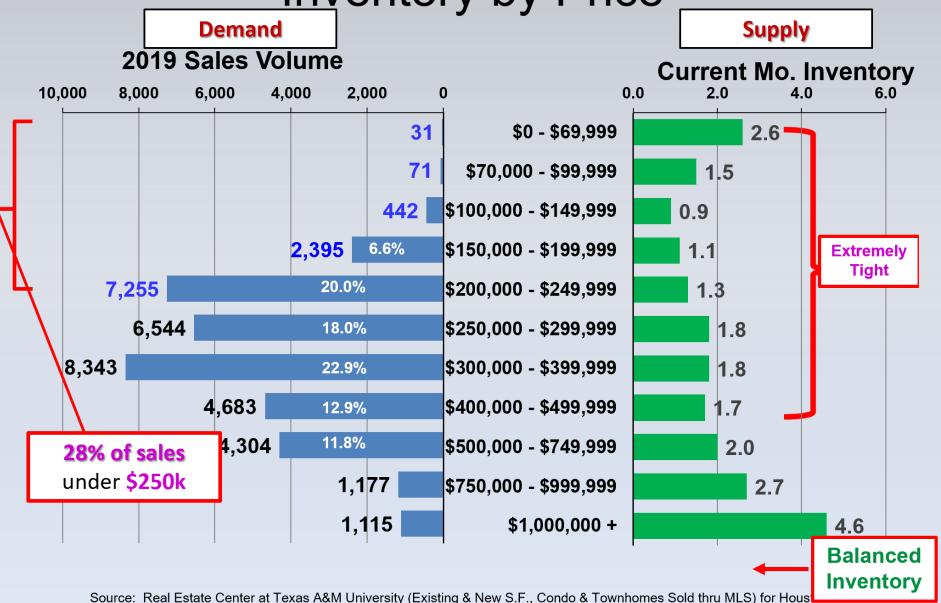
• **Dec. Mo. Inventory: 1.8** (vs. 2.2 in Dec. 2018)

Austin MSA Median Home Price vs. Median HH Income (Indexed to 2006)



Austin MSA 2019 Sales & Current Months

Inventory by Price _____



DFW MSA Housing Market

(2019 Summary Statistics)

• Sales: 103,189 (+3.0% over 2018)

Avg. Price: \$328,370 (+2.4% over 2018)

Avg. Price/SF: \$140.00 (+2.8% over 2018)

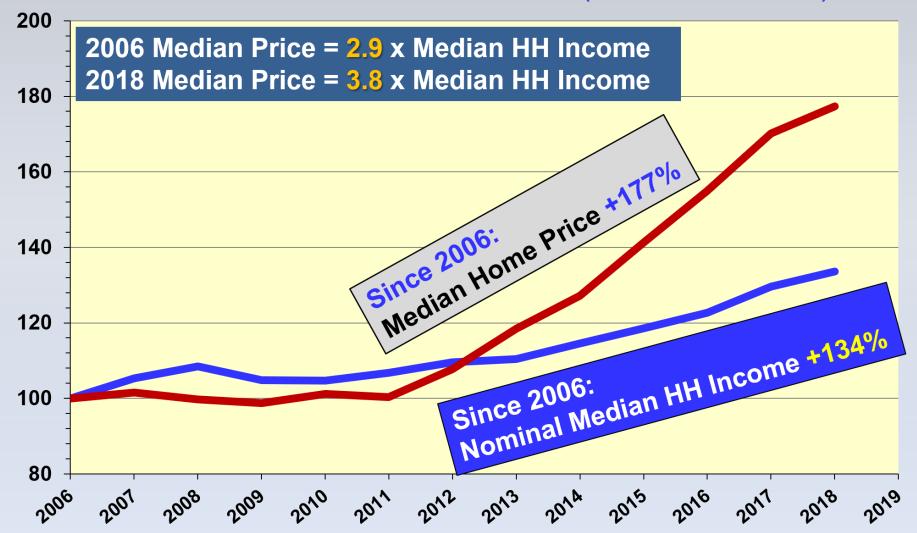
Median Price: \$273,500 (+3.2% over 2018)

Median Price/SF: \$131.00 (+3.3% over 2018)

• **New Listings: 137,531** (+2.8% over 2018)

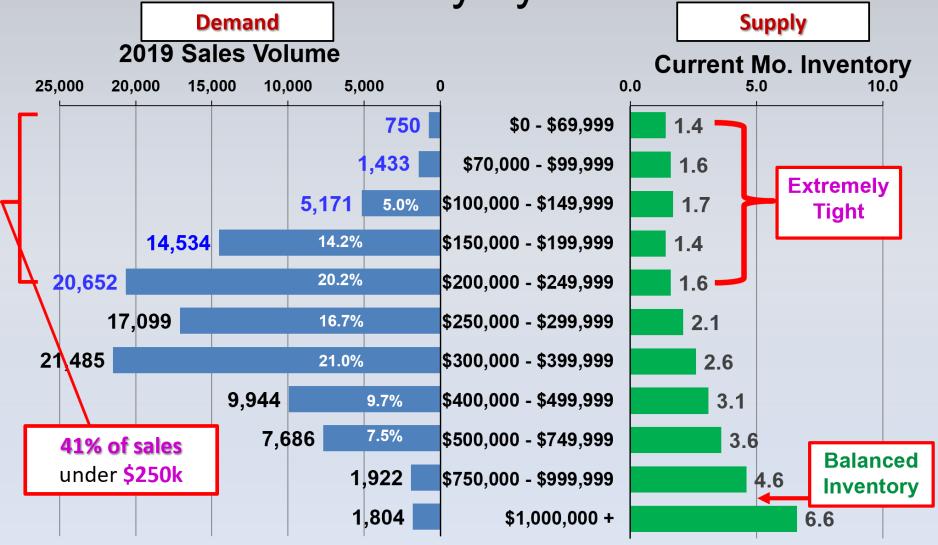
Dec. Mo. Inventory: 2.3 (vs. 2.4 in Dec. 2018)

DFW MSA Median Home Price vs. Median HH Income (Indexed to 2006)



Sources: U.S. Census Bureau; Real Estate Center at Texas A&M University

DFW MSA 2019 Sales & Current Months
Inventory by Price



Houston MSA Housing Market

(2019 Summary Statistics)

• Sales: 90,049 (+3.4% over 2018)

Avg. Price: \$304,670 (+2.6% over 2018)

Avg. Price/SF: \$127.00 (+2.7% over 2018)

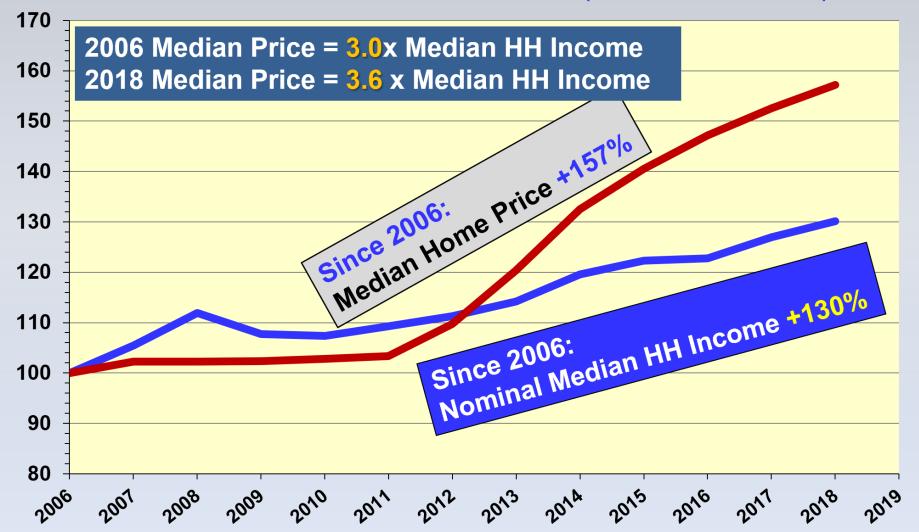
Median Price: \$245,000 (+4.3% over 2018)

Median Price/SF: \$113.00 (+3.5% over 2018)

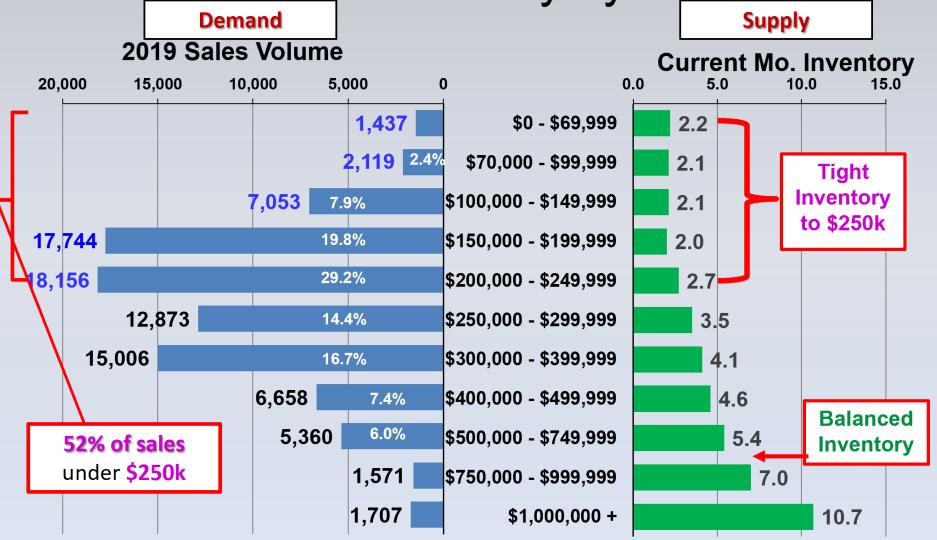
• New Listings: 143,160 (+4.0% over 2018)

Dec. Mo. Inventory: 3.4 (vs. 3.4 in Dec. 2018)

Houston MSA Median Home Price vs. Median HH Income (Indexed to 2006)



Houston MSA 2019 Sales & Current Months Inventory by Price



San Antonio MSA Housing Market

(2019 Summary Statistics)

• Sales: 35,352 (+5.7% over 2018)

• Avg. Price: \$268,273 (+4.2% over 2018)

Avg. Price/SF: \$125.00 (+4.9% over 2018)

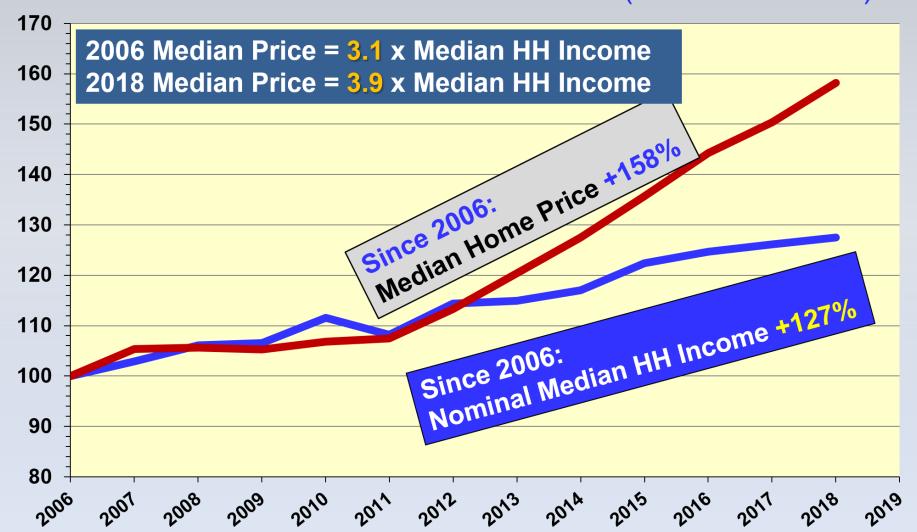
Median Price: \$230,000 (+3.6% over 2018)

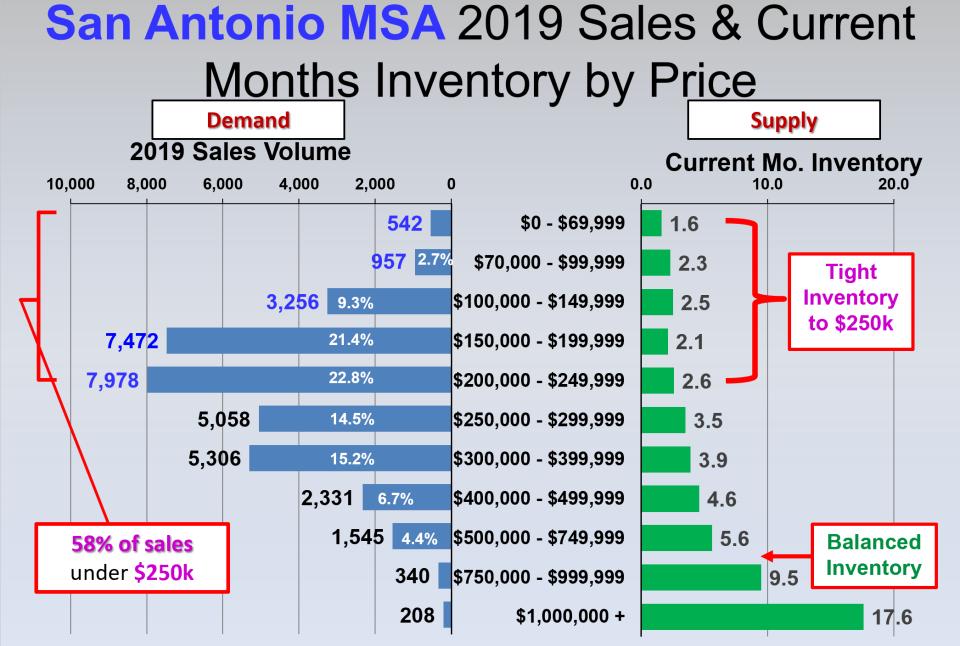
Median Price/SF: \$120.00 (+5.2% over 2018)

• New Listings: 48,473 (+8.3% over 2018)

Dec. Mo. Inventory: 3.2 (vs. 3.1 in Dec. 2018)

San Antonio MSA Median Home Price vs. Median HH Income (Indexed to 2006)





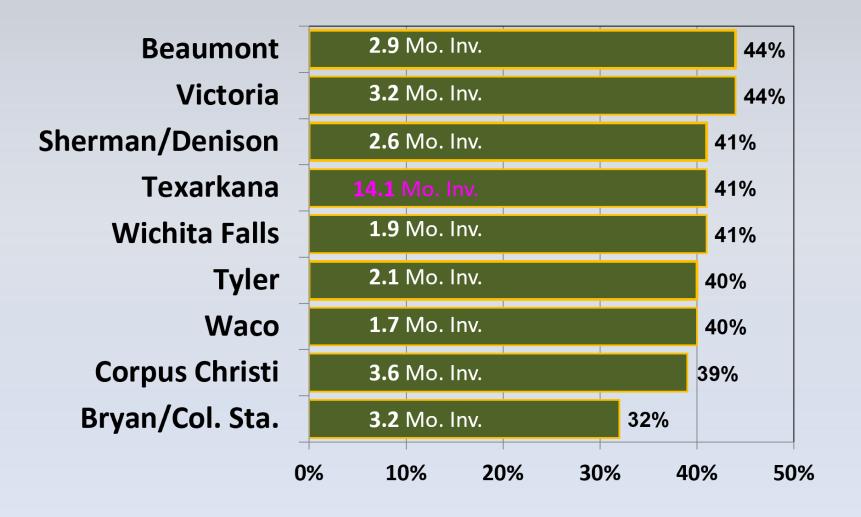
Ranking 2019 Lower-end Home Sales

(Pct. of Residential Sales Between \$100k and \$200k)
Current Months Inventory is for That Price Range



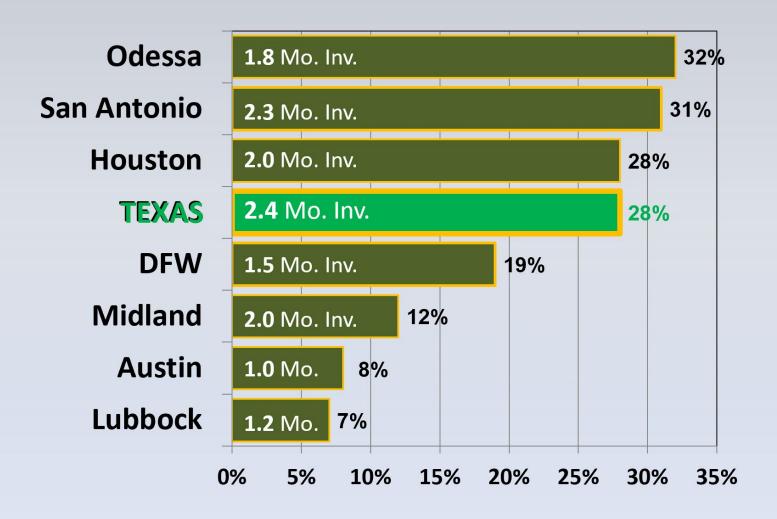
Ranking 2019 Lower-end Home Sales

(Pct. of Residential Sales <u>Between \$100k and \$200k</u>)
Current Months Inventory is for That Price Range



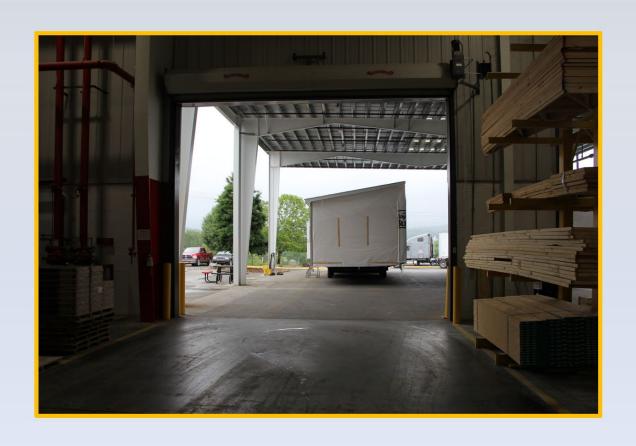
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A New Manufactured Housing Product Has Been Developed

(They're calling it: CrossMod)



Fannie Mae "MH Advantage" Financing



MH Advantage™

MH Advantage is an innovative new mortgage option that offers affordable conventional financing for manufactured housing (MH) with features similar to site-built homes, including:

- Roof treatments distinct from traditional manufactured homes, including eaves and higher pitch rooflines.
- Lower profile foundations, carports, garages, porches, and/or dormers.
- Interiors that feature drywall and kitchens and bathrooms with upgraded cabinets.
- Exteriors that feature durable siding materials.

MH Advantage-eligible homes can become a seamless part of any single-family neighborhood.

Freddie Mac "ChoiceHome" Financing



Courtesy of Clayton Homes

ChoiceHomeSM Financing Launched for Focus on Manufactured Homes that Change Perceptions





























Conclusions

U.S. Economic Outlook

- Economic growth should remain positive through 2020, although business investment is slowing.
 - 2020 U.S. GDP growth is forecast to be 2.0%.
 - A bit slower than 2019, but not bad.
 - Still, companies will hesitate to expand until they get more political clarity.
- An <u>enforceable</u> Phase 1 agreement with China will help the U.S. economy long-term.
- To really spur <u>long-term</u> growth, we need <u>fiscal</u>
 <u>policy</u> attacking structural issues (ex. immigration,
 infrastructure, healthcare, education, entitlement reform)

Texas Economic Outlook

- Texas employment forecast for 2020 we see job growth slightly lower than 2019.
 - 2019 is currently 2.7% growth, but may get <u>revised down</u> in Mid-March.
 - 2020 forecast by the Dallas Fed is 2.1% growth
- Real GDP growth for 2020 is forecast to be 3.0%
 - Preliminary estimate is 4.0% for 2019
- Overall, 2020 should see slower economic growth than 2019 due to the increased political uncertainty and slowing O&G sector.

Texas Housing Outlook

- Forecasting another good year for the State's single-family residential market.
- Low mortgage rates and positive employment growth provide a tailwind.
- Single-family Forecast: 2020 (% Chg.)
 - Texas
 - SF. Building Permits +10%
 - Sales + 6%
 - Price/Sq.Ft.5%

Major MSA Housing Outlook

Single-family Forecast: 2020 (% Chg.)

	Aus	<u>DFW</u>	<u>Hou</u>	San Ant
SF. Bldg. Permits	+10%	+8%	+8%	+10%
• Sales	+9%	+4%	+4%	+6%
 Price/Sq.Ft. 	+7%	+5%	+4%	+5%

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