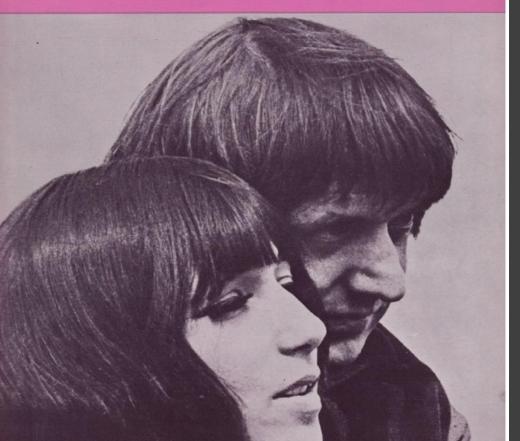


An Economic Outlook on What Changes, What Stays the Same and What's to Come

Ted C. Jones, PhD Chief Economist Stewart Title Recorded by SONNY and CHER on Atco Records

THE BEAT GOES ON

Words and Music by SONNY BONO



1967 – Theme For An Economic Forecast for 2020 The beat goes on, the beat goes on Drums keep pounding a rhythm to the brain La de da de de, la de da de da

Sonny & Cher

Charleston was once the rage, uh huh History has turned the page, uh huh The mini skirts, the current thing, uh huh Teenybopper is our newborn king, uh huh

Sonny & Cher

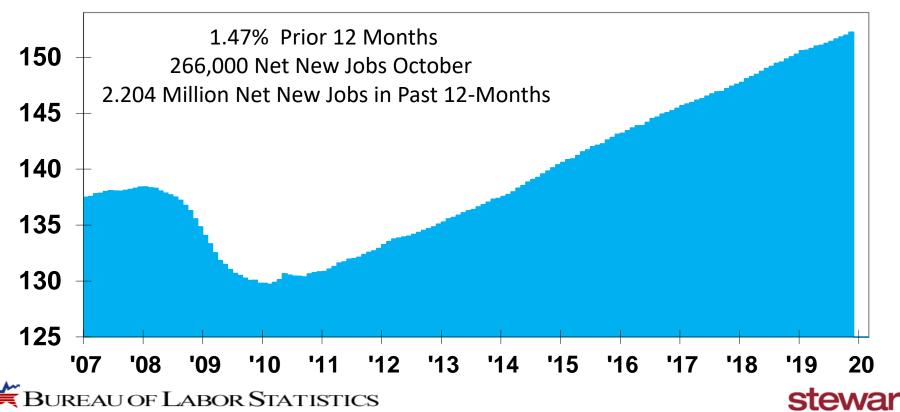
The grocery store's the super mart, uh huh Little girls still break their hearts, uh huh And men still keep on marching off to war Electrically they keep a baseball score

Sonny & Cher

U.S. Jobs

More Jobs Than Anytime In History

Jobs (Millions) Seasonally Adjusted



Compound Annual Job Growth Rate

November 2019

1.47% 1.31%

Past 40-Years

12.2%

Better Than Average

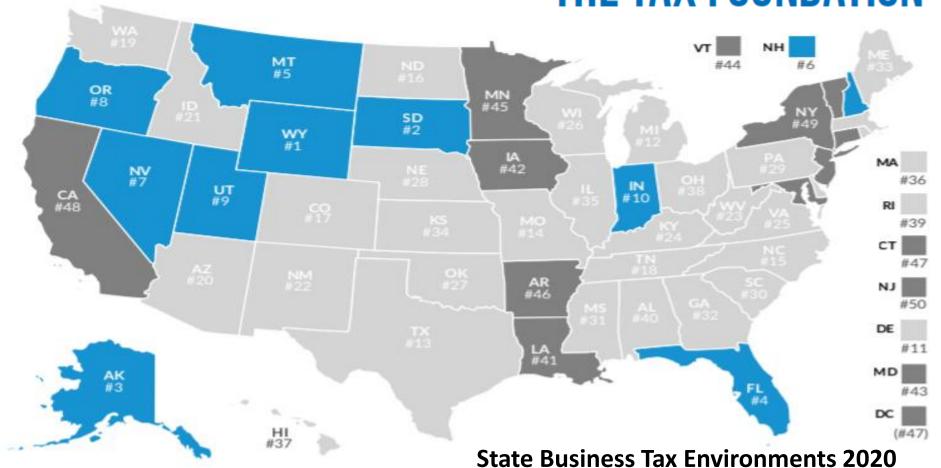
U.S. Supersector Job Growth Analysis -- November 2019

Not Seasonally Adjusted

				12-Months		5 Yea	ırs
	Total Jobs	Perc	ent of	Net New		Net New	
	Thousands	All	Jobs	Jobs	Percent	Jobs	Percent
Employment Supersector	Nov 2019	Today	5-Years Ago	Thousands	Change	Thousands	Change
Total	153,624.0	100.0%	100.0%	2,249.0	1.5%	12,293.0	8.7%
Mining & Logging	747.0	0.5%	0.6%	(4.0)	-0.5%	(157.0)	-17.4%
Mining & Logging + Construction	8,349.0	5.4%	5.1%	141.0	1.7%	1,080.0	14.9%
Construction	7,602.0	4.9%	4.5%	145.0	1.9%	1,237.0	19.4%
Manufacturing	12,862.0	8.4%	8.7%	79.0	0.6%	579.0	4.7%
Trade-Transport-Utilities	28,500.0	18.6%	19.1%	113.0	0.4%	1,460.0	5.4%
Information	2,865.0	1.9%	1.9%	11.0	0.4%	117.0	4.3%
Financial Activites	8,728.0	5.7%	5.7%	119.0	1.4%	694.0	8.6%
Professional and Business Service	21,869.0	14.2%	13.8%	425.0	2.0%	2,372.0	12.2%
Education and Health Services	24,784.0	16.1%	15.5%	695.0	2.9%	2,911.0	13.3%
Leisure & Hospitality	16,601.0	10.8%	10.3%	419.0	2.6%	2,014.0	13.8%
Other	5,942.0	3.9%	3.9%	83.0	1.4%	363.0	6.5%
Government	23,124.0	15.1%	15.9%	164.0	0.7%	703.0	3.1%



THE TAX FOUNDATION

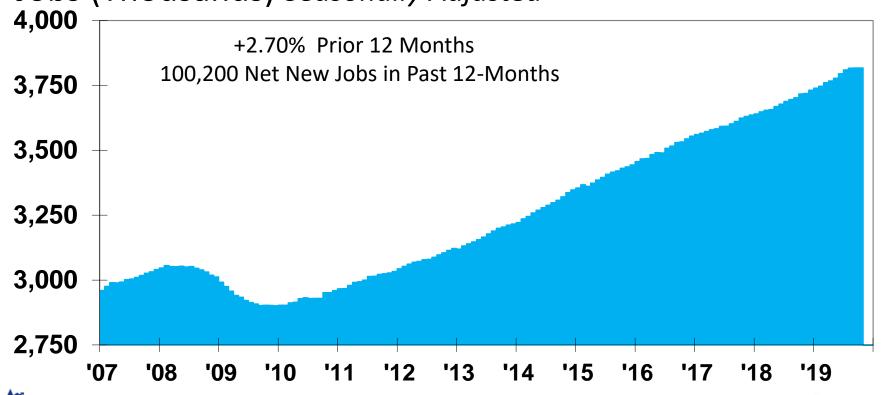


State Job Growth -- 12 Months Ending October 2019

Utah	3.19%	Nebraska	1.57%	Virginia	0.74%
Florida	2.58%	South Carolina	1.43%	New Jersey	0.72%
Arizona	2.45%	Massachusetts	1.42%	Wisconsin	0.56%
Texas	2.36%	Arkansas	1.42%	Indiana	0.54%
Washington	2.25%	Delaware	1.32%	Iowa	0.49%
Idaho	2.21%	Montana	1.32%	Pennsylvania	0.48%
Nevada	2.19%	Kansas	1.27%	West Virginia	0.44%
New Mexico	2.05%	Tennessee	1.26%	Ohio	0.35%
Alabama	2.03%	Missouri	1.20%	Alaska	0.33%
North Carolina	2.02%	New Hampshire	1.13%	Minnesota	0.33%
Colorado	1.92%	Maryland	1.09%	Vermont	0.32%
South Dakota	1.86%	New York	1.07%	Connecticut	0.28%
Rhode Island	1.79%	Maine	1.04%	Oklahoma	0.26%
California	1.78%	Mississippi	1.01%	Wyoming	0.24%
Oregon	1.70%	Dist of Columbia	0.97%	Louisiana	0.18%
Kentucky	1.61%	Illinois	0.93%	North Dakota	0.00%
Georgia	1.59%	Hawaii	0.85%	Michigan	-0.05%

Dallas-Ft Worth-Arlington MSA Jobs

Jobs (Thousands) Seasonally Adjusted





stewart

Dallas-Ft Worth-Arlington MSA Supersector Job Growth Analysis -- October 2019

Percent of

All Jobs

Today

12-Months

Percent

Net New

Jobs

5-Years Ago Thousands Change

5 Years

Percent

Change

Net New

Jobs

Thousands

Not Seasonally Adjusted

Total Jobs

Thousands

Oct 2019

Employment Supersector

Total	3,828.6	100.0%	100.0%	98.7	2.6%	493.2	14.8%
Mining & Logging							
Mining & Logging + Construction	240.3	6.3%	6.0%	17.1	7.7%	41.6	20.9%
Construction							
Manufacturing	283.6	7.4%	7.9%	2.0	0.7%	20.4	7.8%
Trade-Transport-Utilities	805.2	21.0%	20.8%	12.6	1.6%	110.2	15.9%
Information	81.9	2.1%	2.4%	-	0.0%	1.5	1.9%
Financial Activites	319.1	8.3%	8.1%	14.4	4.7%	49.5	18.4%
Professional and Business Service	645.5	16.9%	16.5%	13.9	2.2%	94.7	17.2%
Education and Health Services	469.0	12.2%	12.2%	13.3	2.9%	63.2	15.6%
Leisure & Hospitality	403.4	10.5%	10.1%	15.5	4.0%	66.2	19.6%
Other	128.7	3.4%	3.6%	3.6	2.9%	10.1	8.5%
Government	451.9	11.8%	12.5%	6.3	1.4%	35.8	8.6%
						_	

U.S. Vs Dallas-Ft Worth-Arlington Supersector Employment Analysis

Not Seasonally Adjusted

	Percent of		12-Month		
	All Jobs		Job Gro		
Employment Supersector	DFW	U.S.	DFW	U.S.	
Mining & Logging		0.5%		-0.5%	
Mining & Logging + Construction	<i>6.3%</i>	5.4%	7.7%	1.7%	
Construction		4.9%		1.9%	
Manufacturing	7.4%	8.4%	0.7%	0.6%	
Trade-Transport-Utilities	21.0%	18.6%	1.6%	0.4%	
Information	2.1%	1.9%	0.0%	0.4%	
Financial Activities	8.3%	5.7%	4.7%	1.4%	
Professional and Business Service	16.9%	14.2%	2.2%	2.0%	
Education and Health Services	12.2%	16.1%	2.9%	2.9%	
Leisure & Hospitality	10.5%	10.8%	4.0%	2.6%	
Other	3.4%	3.9%	2.9%	1.4%	
Government	11.8%	15.1%	1.4%	0.7%	

Source: U.S. Bureau of Labor Statistics, Stewart Title Guaranty Company



DFW MSA

3.1

Percent

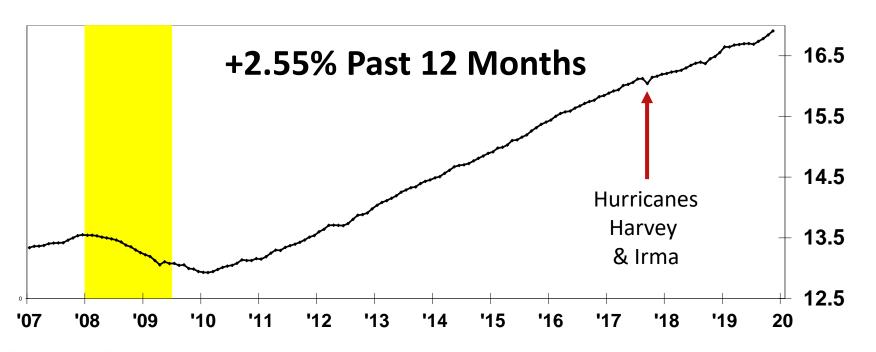
Unemployment Rate

U.S. Leisure & Hospitality Jobs

The Blood Pressure Test of the U.S. Economy

Millions of Jobs Seasonally-Adjusted







stewart

Recession

Recession is Defined as Two or More Quarters of Negative GDP Growth

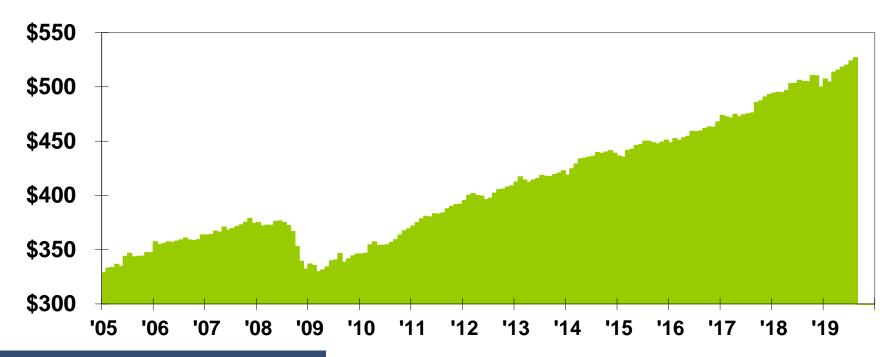
- 3.1 Percent Q1 2019 GDP Growth Rate
- 2.0 Percent Q2 2019 GDP Growth Rate
- 1.9 Percent Q3 2019 GDP Growth Rate

Retail Sales Say No Recession

Retail sales (which make up approximately 68% of GDP) were up 4.53% in 12-months ending September 2019

U.S. Real Retail & Food Service Sales

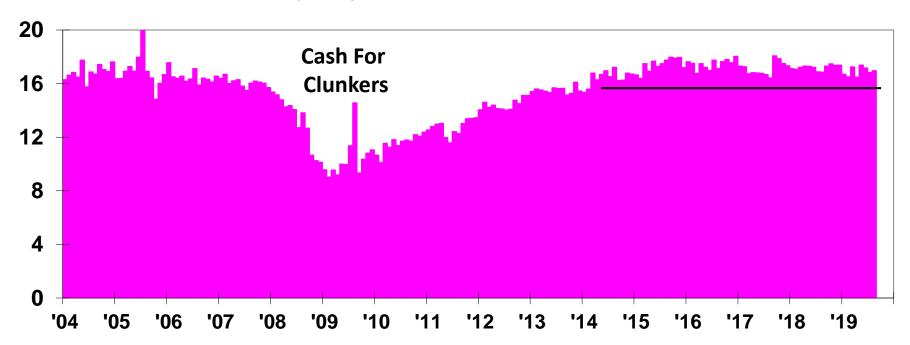
\$ Billions - Seasonally Adjusted





Light Weight Vehicle Sales

Millions – Seasonally Adjusted Annual Rate





"The flattening and inverted yield curve has been an accurate predictor of economic recessions. A yield curve inversion along the 2-year and 10-year spread has come before the last seven recessions."

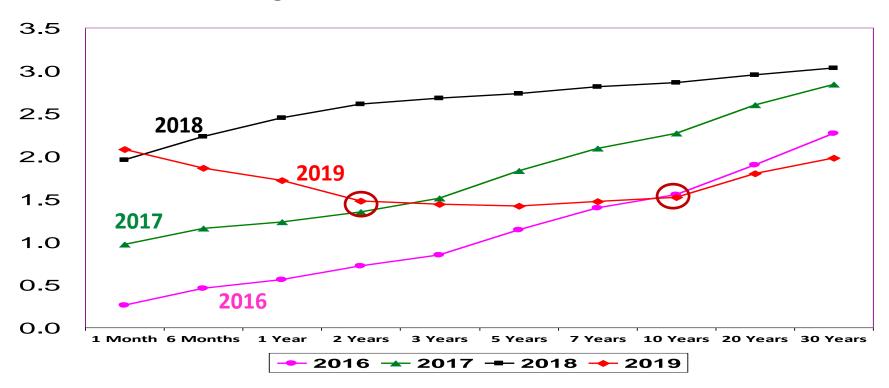
ACCURATE?

MarketWatch

Yield Curve Inversion May 1998

Treasury Yield Curves

Percent Yield -- August 15





Stock Market Performance – Post Inverted Yield Curve

Date of first 2/10-year inversion	3 months later	6 months later	1 year	2 years	3 years
8/17/1978	-10.14%	-6.10%	3.06%	19.64%	24.88%
8/20/1980	13.44%	2.27%	5.59%	-8.69%	32.49%
12/9/1988	6.10%	17.93%	25.87%	18.31%	36.54%
5/26/1998	-0.90%	8.49%	19.26%	25.96%	16.81%
12/30/2005	4.16%	1.76%	13.62%	18.44%	-28.65%
Average	2.53%	4.87%	13.48%	14.73%	16.41%



3.1%

12-Month Income Increase Inflation 1.8% 2019 Best Wage **Gains in 10 Years**

3.5%

Unemployment Rate **Lowest in** 50-Years **1969**

61.5%

Percent of Workers **Confident in Finding a New** Job if **They Lost Their Current One**

FEDERAL RESERVE BANK of NEW YORK

90%

\$80

Pay Less

Extra Money Spent on Real Estate Annually Due to Tax Cuts

Billion

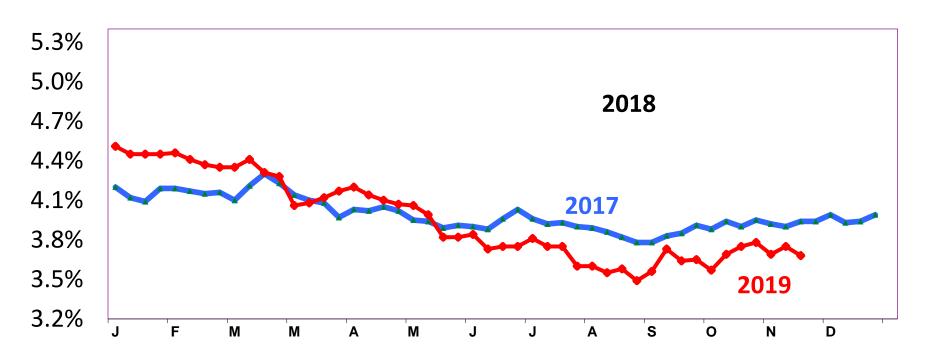
Taxes



USA TODAY

30-Year Conventional Residential Mortgage Rates

Percent









US October Housing Sales

2019 463,000

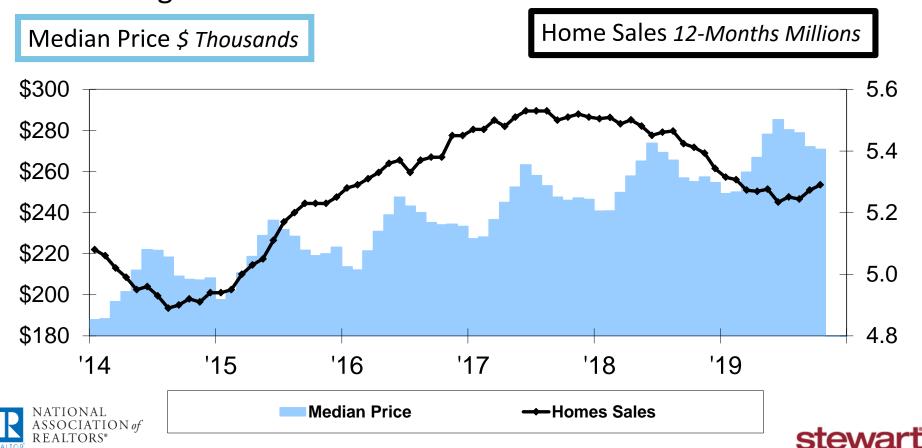
2018 446,000





U.S. Existing Home Sales & Median Prices

Sales Trailing 12 Months



1 in Every 8 Occupied **Residential Dwellings** Will Hit the Market From 2017-2027 **As Boomers Pass Away**

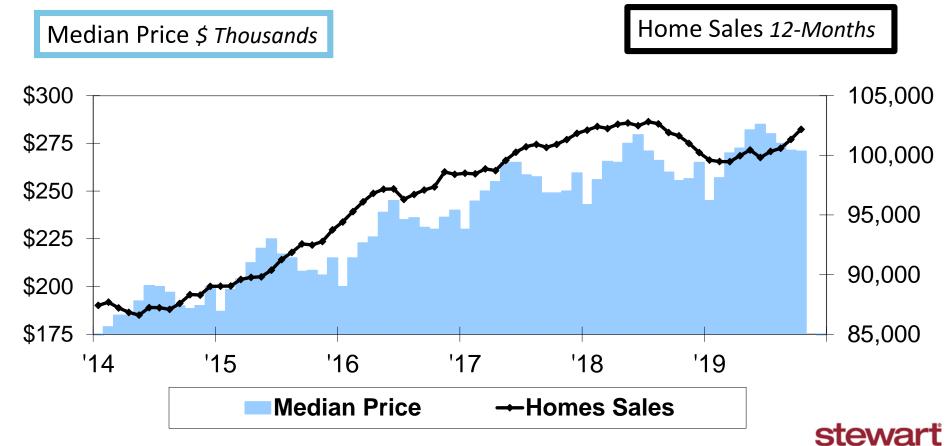
9

Million Homes

THE WALL STREET JOURNAL.

DFW Home Sales & Median Prices

Sales Trailing 12 Months



Jobs & Residential Dwelling Unit Permits

Dallas-Ft Worth-Arlington

Voor	Net New Jobs	Dwelling Unit Permits	Jobs Per New	
Year			Dwelling	
2013	94,100	40,364	2.33	
2014	131,200	43,994	2.98	
2015	96,400	57,146	1.69	
2016	110,500	55,800	1.98	
2017	81,400	62,524	1.30	
2018	96,000	63,893	1.50	
Total	609,600	323,721	1.88	

Normal 1.25 to 1.50 **Net New Jobs Per** New **Dwelling**

DFW 1.88

Dallas Apartment Rents

Average Rent	\$1,240
Year-Over-Year Change	4%
Average Apartment Size - Sq Ft	846

Apartment Mix

\$501-\$700	4%
\$701 - \$1,000	36%
\$1,001 - \$1,500	39%
\$1,501 - \$2,000	13%
> \$2,000	7%

RENTCafé®

Owner Occupied 57% Renter Occupied 42%

Conventional -	20%	Down	FHA - 3.59	% Dov	vn
Average Rent	\$	1,240	Average Rent	\$	1,240
Rate		3.68%	Rate		3.50%
Term		30 Years	Term		30 Years
Loan Serviced	\$	241,967	Loan Serviced	\$	247,414
Median Price	\$	289,000	Median Price	\$	289,000
Less 20% Down		(57,800)	Less 3.5% Down		(10,115)
Loan Amount	\$	231,200	Loan Amount	\$	278,885
Monthly Payment		(1,047)	Monthly Payment		(1,252)
Residual	\$	193	Residual	\$	(12)
Conventional Lo	an		FHA		_
					stewart

States With the Most People Leaving

- **1 New Jersey 66.8%**
- 2 Illinois 65.9%
- 3 Connecticut 62%
- 4 New York 61.5%
- 5 Kansas 58.7%
- 6 Ohio 56.5%
- 7 Massachusetts 55.7%
- 8 Iowa 55.5%
- 9 Montana 55% & Michigan
- **11 California 54.4%**



Percent of Van Rentals Leaving the State

Top Desireable Metro Areas Based on Most Influential Homebuying Factors

Rank	MSA	Community Well-Being Rank	Average One-Way Commute Time in Minutes	Regional Price Parity (RPP)	Violent Crimes per 100K Residents
1	El Paso, TX	64.0	23.3	88.7	356.3
2	Portland, OR	63.9	24.7	101.7	127.4
3	Raleigh, NC	63.2	25.4	95.9	259.8*
4	Omaha, NE	61.8	20.2	93.4	384.5
5	Minneapolis, MN	62.9	25.2	102.3	283.0
6	San Antonio, TX	62.8	25.7	94.4	523.9
7	Austin, TX	62.7	26.4	100.0	306.3
8	Louisville, KY	61.3	23.7	91.0	417.7
9	Mesa, AZ	62.8	26.0	97.1	470.6
10	Charlotte, NC	62.2	26.3	93.5	416.2
11	Colorado Springs, CO	62.0	22.7	99.6	431.8



Top Desireable Metro Areas Based on Most Influential Homebuying Factors

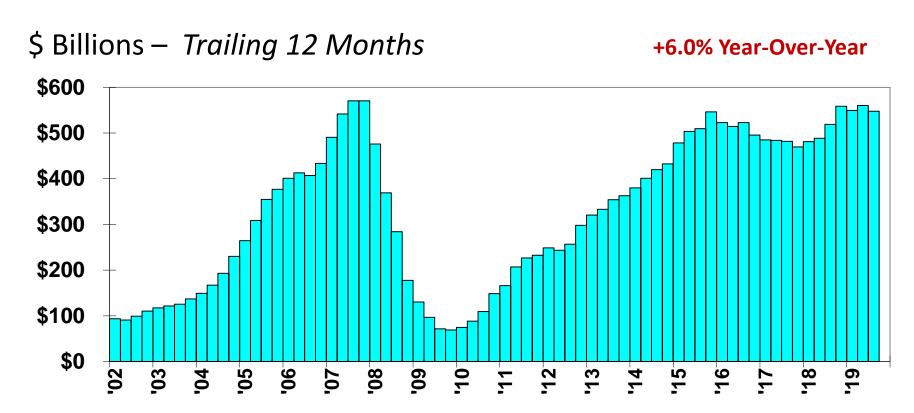
		Community Well-Being	Average One-Way Commute Time	Regional Price Parity	Violent Crimes per
Rank	MSA	Rank	in Minutes	(RPP)	100K Residents
12	Columbus, OH	60.8	23.5	93.0	290.7
13	Arlington, TX	62.8	27.8	100.2	369.3
14	Dallas, TX	62.8	27.8	100.2	369.3
15	Fort Worth, TX	62.8	27.8	100.2	369.3
16	Virginia Beach, VA	61.4	24.2	97.9	330.8
17	San Diego, CA	63.8	25.3	116.3	337.1
18	Kansas City, MO	61.7	22.9	93.7	628.3*
19	Jacksonville, FL	62.2	26.3	95.8	480.8
20	Nashville, TN	62.8	27.0	94.4	624.9
21	Tucson, AZ	61.6	24.4	95.8	499.0
22	Phoenix, AZ	62.8	26.0	105.9	470.6



1.5 Million Net New Households In 2018

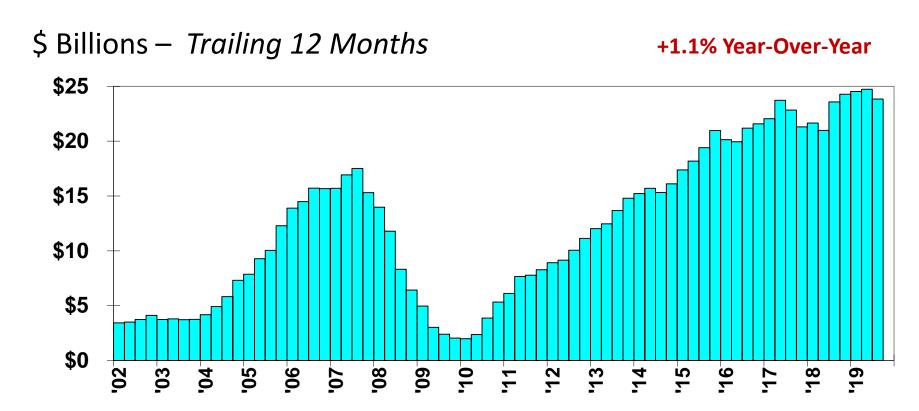
Built **Less Than** 1.2 Million New Dwelling **Units**

U.S. Commercial Real Estate Sales Volume





Dallas Commercial Real Estate Sales Volume

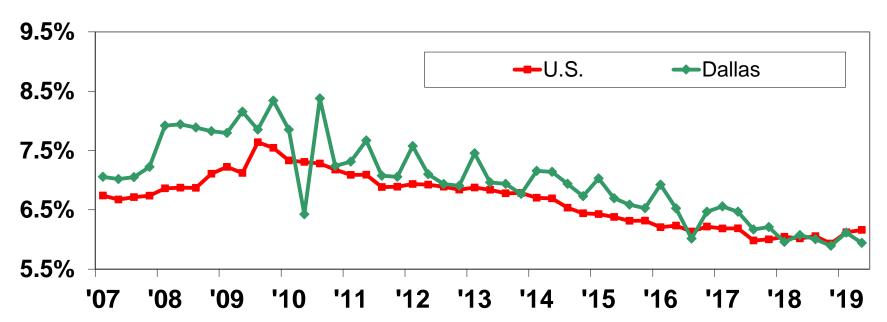




U.S. Real Estate Cap Rates

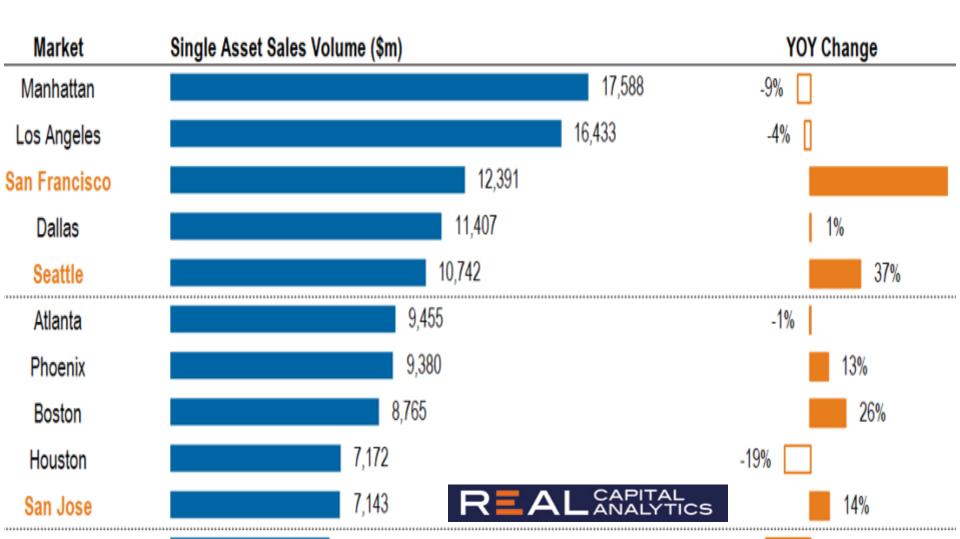
Percent

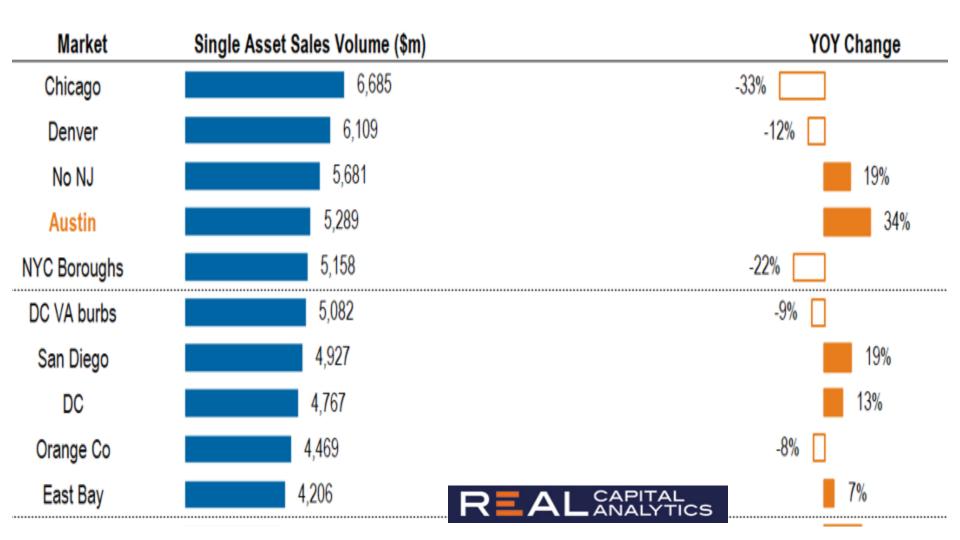
Property and Portfolio Sales \$2.5 Million and Up



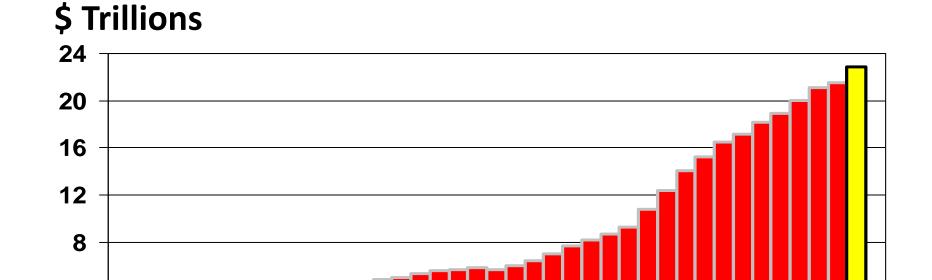








Federal Debt – Total Public Debt





Federal Debt Interest Payments

+30.0% March 2017 Vs 2016 +10.7% March 2018 Vs 2017 +15.5% March 2019 Vs 2018

+56.2% in 36 Months

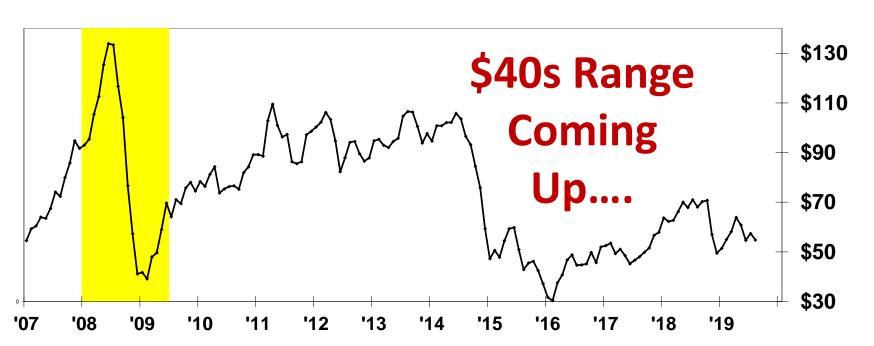
Debt Up 16.3%

Oil Prices

West Texas Intermediate Crude

Recession

\$ Per Barrel Monthly Average





Energy source	Share of total	US Electricity Generatio	n 20:
Total - all sources		Biomass (total)	1.5%
Fossil fuels (total)	63.5%	Wood	1.0%
Natural gas	35.1%	Landfill gas	0.3%
Coal	27.4%	Municipal solid waste (biogenic)	0.2%
Petroleum (total)	0.6%	Other biomass waste	0.1%
Petroleum liquids	0.4%	Solar (total)	1.6%
Petroleum coke	0.2%	Photovoltaic	1.5%
Other gases	0.3%	Solar thermal	0.1%
Nuclear	19.3%	Geothermal	0.4%
Renewables (total)	17.1%	Pumped storage hydropower ³	-0.1%
Hydropower	7.0%	Other sources	0.3%
Wind	6.6%	eia	

U.S. energy consumption by source, 2018



biomass renewable

5.1%

heating, electricity, transportation



petroleum

nonrenewable

transportation, manufacturing



hydropower renewable

2.5%



natural gas

nonrenewable

heating, manufacturing, electricity



geothermal renewable

aring, electricity

0.2%



coal

nonrenewable electricity, manufacturing

13.1%

36.5%

30.6%



wind renewable electricity

electricity

2.5%



uranium nonrenewable electricity

8.3%



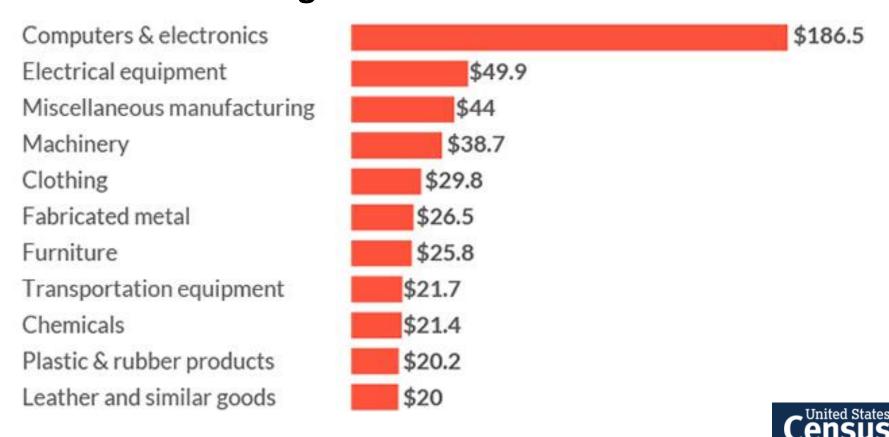
solar & other renewable

0.9%



light, heating, electricity

What the U.S. Bought from China in 2018 \$US Billions



What China Bought from the U.S. in 2018 \$US Billions

\$27.8		
\$17.9		
\$16.2		
\$11.1		
\$7.1		
\$5.9		
\$3.7		
\$3.5		
\$3.4		

China Trade

\$US Billions

\$539.0 Imported \$120.3 Exported \$418.7 Deficit



China-U.S. Tariffs – April 9, 2019

25.0% Tariff Paid on U.S. Cars in China

2.5% Tariff Paid on Chinese Cars in U.S.



2020 Economic Outlook

stewart

Good Economy just so average **Growing Jobs & Wages** best wage growth in 10 years **Stable & Low Interest Rates** Rising Home Prices albeit at a Lower Pace **Cheap (But Profitable) Energy** fuels the economy Manufacturing Comeback no college or debt required



stewart.com

Stewart Blog



http://blog.stewart.com

Jones on Real Estate



Allergic to Average

Ted C. Jones, PhD
Chief Economist – Senior Vice President
Stewart Title Guaranty Company
1360 Post Oak Blvd, Suite 100 MC12-1
Houston, Texas 77056
713.625.8014 Office Direct
713.206.3442 Cell



An Economic Outlook on What Changes, What Stays the Same and What's to Come

Ted C. Jones, PhD Chief Economist Stewart Title