THE 3 R's OF REAL ESTATE AND THE ECONOMY



REINVENT



RECHARGE



Ted C. Jones, PhD Chief Economist SVP



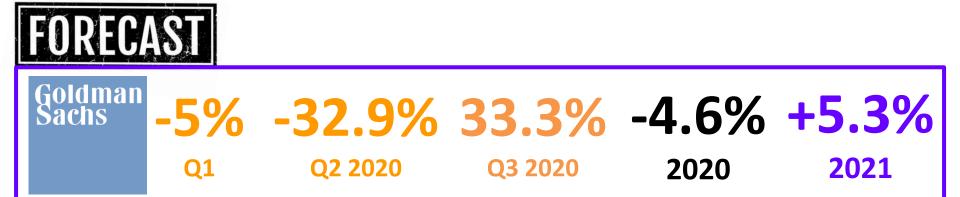
Takeaways

- Highest Intrinsic Value of Housing
- Accelerating Pre-Existing Trends
- Permanent Changes 66 Days Average
- Macro Factors Rule
- New Rules-Taxes-Economics Unknown
- Omnichannel Marketing Key



Recession

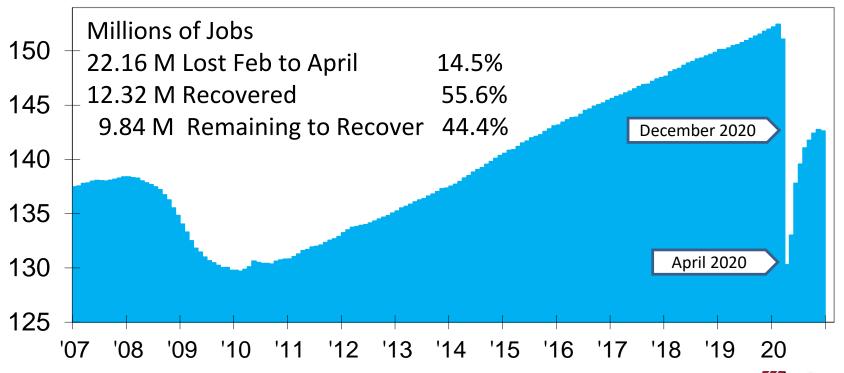
Recession is Defined as Two or More Quarters of Negative GDP Growth



U.S. Jobs

BUREAU OF LABOR STATISTICS U.S. DEPARTMENT OF LABOR

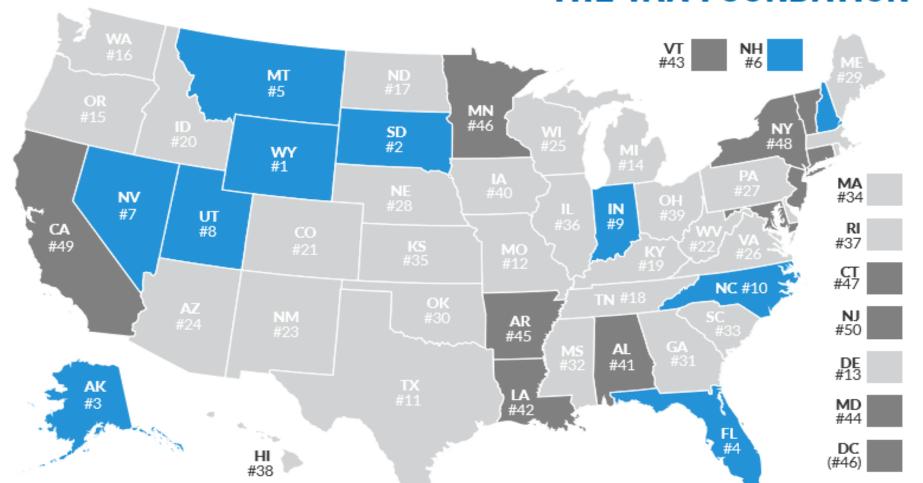
Jobs (Millions) Seasonally Adjusted





2021 State Business Tax Climate Index

THE TAX FOUNDATION



1	Wilmington NC	14	Phoenix AZ
2	Sarasota-Bradenton FL	15	West Palm Beach-Boca Raton FL
3	Boise ID	16	Daytona Beach FL
4	Huntsville AL	17	Fayettville-Springdale AR
5	Ft Myers-Cape Coral FL	18	Portland-Vancouver OR-WA
6	Knoxville TN	19	Seattle WA
7	Melborne-Titusville-Palm Bay FL	20	Grand Rapids MI
8	Austin-San Marcos TX	21	Boulder-Longmont CO
9	Nashville TN	22	Jacksonville FL
10	Ft Collins-Loveland CO	23	Orlando FL
11	Charleston SC	24	Greensboro-Winston Salem NC
12	Santa Fe NM	25	Tampa-St Pete-Clearwater FL
13	Charlotte-Gastonia NC-SC		Top Inbound

State Job Losses -- February 2020 to Trough



Michigan	23.8%	California	14.9%	Iowa	11.7%
Vermont	21.7%	Alaska	14.7%	Georgia	11.4%
Nevada	20.1%	Maryland	13.9%	Texas	10.8%
Hawaii	20.1%	Indiana	13.7%	Idaho	10.8%
New York	19.8%	Louisiana	13.7%	Virginia	10.7%
New Jersey	19.6%	Oregon	13.6%	Mississippi	10.5%
Rhode Island	19.3%	North Carolina	13.4%	Alabama	10.5%
Massachusetts	18.6%	South Carolina	13.3%	North Dakota	10.1%
Pennsylvania	18.3%	West Virginia	13.2%	Kansas	10.0%
Delaware	17.9%	Montana	13.1%	Arizona	9.9%
Connecticut	17.1%	Illinois	13.1%	South Dakota	9.4%
New Hampshire	17.1%	Minnesota	13.0%	Arkansas	9.3%
Kentucky	16.8%	Florida	13.0%	Utah	9.1%
Maine	16.4%	Tennessee	12.8%	Dist of Columbia	9.1%
Ohio	16.0%	Colorado	12.2%	Wyoming	9.0%
Wisconsin	15.9%	New Mexico	12.0%	Nebraska	8.9%
Washington	15.7%	Missouri	11.9%	Oklahoma	8.5%

Percentage of Lost Jobs Recovered -- November 2020

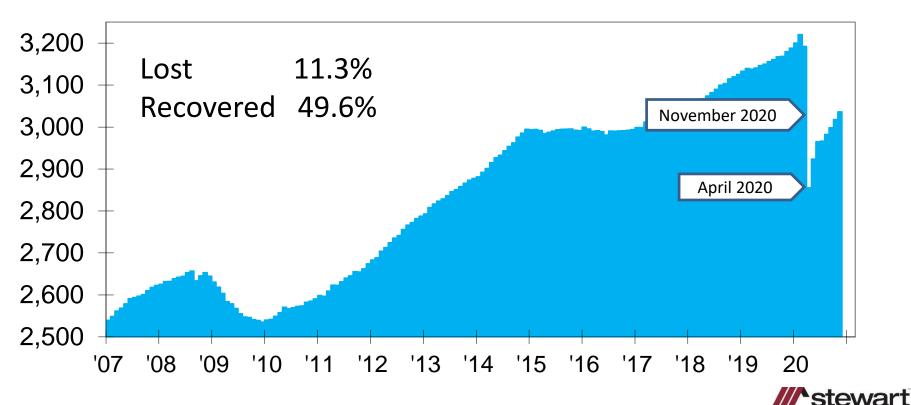


Idaho	95.9%	Nevada	62.2%	Maine	53.4%
Utah	94.6%	Vermont	62.2%	Oregon	52.7%
Alabama	77.4%	Colorado	61.2%	Wisconsin	52.2%
Mississippi	77.0%	Nebraska	61.2%	Kansas	51.9%
South Carolina	74.6%	Washington	61.1%	Minnesota	49.8%
Georgia	74.3%	North Carolina	60.8%	Oklahoma	49.7%
Montana	72.8%	Ohio	60.7%	Massachusetts	49.4%
Indiana	71.6%	Texas	59.7%	Delaware	49.0%
Tennessee	68.3%	Alaska	59.2%	New York	47.9%
Arizona	68.3%	Florida	59.0%	Wyoming	46.7%
Kentucky	67.1%	Michigan	58.7%	New Hampshire	46.7%
Missouri	66.6%	New Jersey	58.4%	Illinois	46.3%
Arkansas	65.7%	Rhode Island	58.3%	California	46.0%
Connecticut	64.5%	Iowa	58.2%	New Mexico	37.3%
Louisiana	64.3%	Pennsylvania	57.7%	Dist of Columbia	26.5%
Maryland	63.3%	Virginia	56.3%	North Dakota	26.5%
South Dakota	62.7%	West Virginia	56.0%	Hawaii	24.3%

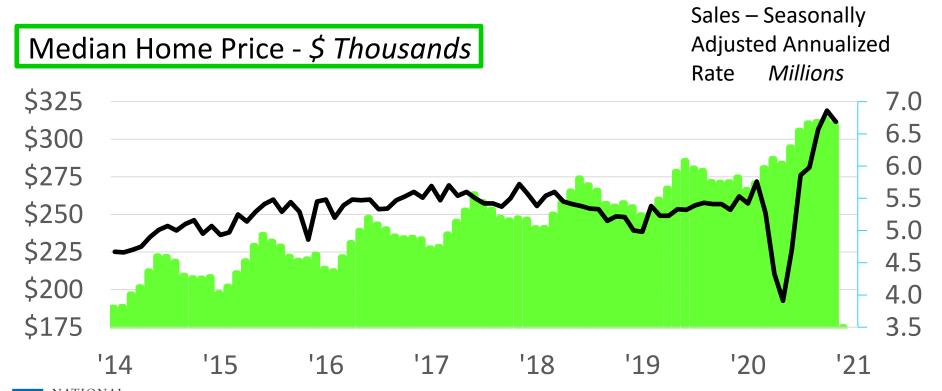
Houston-The Woodands-Sugar Land MSA



Jobs (Thousands) Seasonally Adjusted



US Existing Home Sales & Median Prices

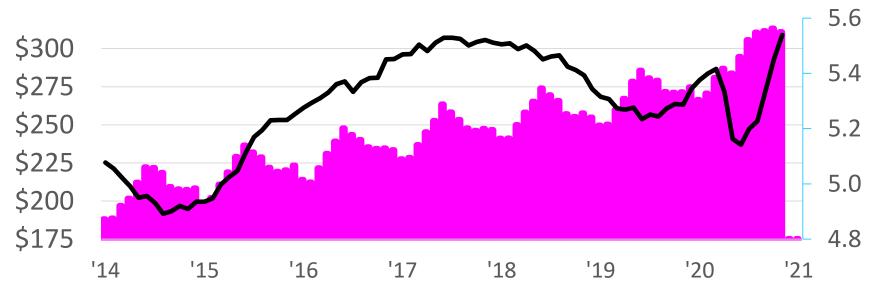






US Existing Home Sales & Median Prices

Median Home Price - \$ Thousands Sales - Prior 12 Months Millions







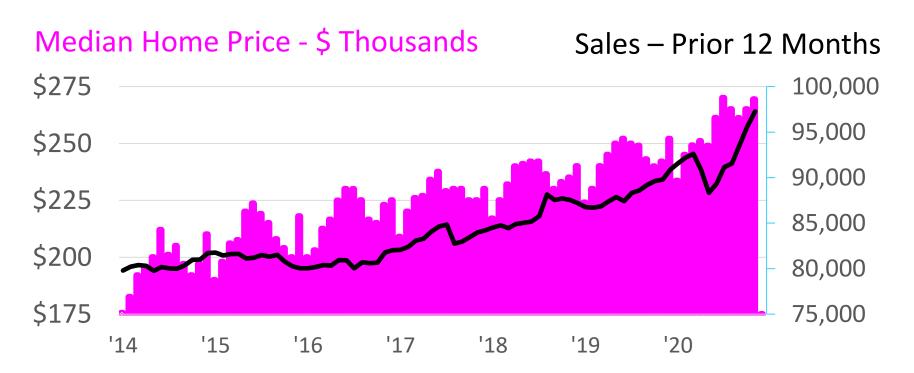
Price Range Thousands	Sales Distribution	Change in Sales Vs November 2019	Change in Inventory Vs Nov 2019
\$0 to \$100	5.4%	-21.7%	-38.5%
\$100 - \$250	31.2%	1.1%	-27.5%
\$250 - \$500	41.5%	37.3%	-16.3%
\$500 - \$750	12.9%	64.9%	-3.5%
\$750 - \$1 Million	4.5%	84.9%	1.0%
Great than \$1 Million	4.5%	88.1%	-1.4%

Based on a Non-Seasonally Adjusted Sample





Houston MSA Home Sales & Median Prices



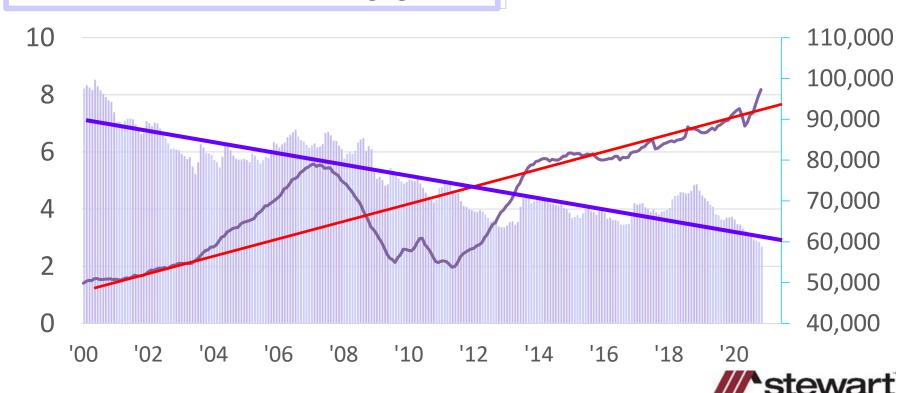




Houston MSA Home Sales & Interest Rates

30-Year Conventional Mortgage Rate

Sales – Prior 12 Months



Houston Single Family Home Sales Year-to-Date

Galveston-Ft Bend-Harris-Montgomery Counties

	2015	2016	2017	2018	2019	2020
\$1 to \$499,999	59,209	61,217	62,791	64,970	67,894	72,914
\$500,000 to \$799,999	4,564	4,401	4,566	5,012	5,379	6,850
\$800,000 to \$999,999	916	844	912	973	1,045	1,287
\$1 Million and Up	1,418	1,352	1,506	1,593	1,645	1,950
	66,107	67,814	69,775	72,548	75,963	83,001

Percent Change - 2020 vs 2019

reitelit Change - 2020 vs 2019		
\$1 to \$499,999	7.4%	
\$500,000 to \$799,999	27.3%	
\$800,000 to \$999,999	23.2%	
\$1 Million and Up	18.5%	



Houston Townhouse-Condo Sales

Galveston-Ft Bend-Harris-Montgomery Counties

	2015	2016	2017	2018	2019	2020
\$1 to \$499,999	6,361	6,268	6,215	6,236	6,161	6,183
\$500,000 to \$799,999	297	241	287	280	220	235
\$800,000 to \$999,999	21	33	36	36	30	22
\$1 Million and Up	13	12	14	25	19	24
Total	6,692	6,554	6,552	6,577	6,430	6,464

Percent Change - 2020 vs 2019

\$1 to \$499,999	0.4%
\$500,000 to \$799,999	6.8%
\$800,000 to \$999,999	-26.7%
\$1 Million and Up	26.3%



Houston Mid-Rise \$ High-Rise Sales

Galveston-Ft Bend-Harris-Montgomery Counties

	2015	2016	2017	2018	2019	2020
\$1 to \$499,999	622	565	576	552	554	521
\$500,000 to \$799,999	72	73	83	91	106	74
\$800,000 to \$999,999	24	20	23	18	25	20
\$1 Million and Up	38	49	49	55	44	48
Total	756	707	731	716	729	663

Percent Change - 2020 vs 2019

\$1 to \$499,999	-6.0%
\$500,000 to \$799,999	-30.2%
\$800,000 to \$999,999	-20.0%
\$1 Million and Up	9.1%



2020

5.9%

5,639

5,659

Dec 2020

2022

-1.4%

5,600

6,295

Sales	Thousands	SAAR
-------	------------------	------

Fannie Mae

MBA

Average

Average _	5,649	6,031	5,948			
Percent Change	e - Year-O	ver-Year				
Fannie Mae	5.6%	2.7%	-3.3%			
MBA	6.2%	10.8%	0.4%			

2021

6.8%

5,792

6,270







Existing Home Median Price Forecast

Median Price -- \$ Thousands

	2020		•	2021	2022		
Fannie Mae	\$	290.0	\$	302.0	\$	305.0	
MBA	\$	293.7	\$	297.4	\$	291.6	
Average	\$	291.9	\$	299.7	\$	298.3	





Percent Change - Year-Over-Year

Fannie Mae	6.6%	4.1%	1.0%
MBA _	7.0%	1.3%	-2.0%
Average	6.8%	2.7%	-0.5%



U.S. Median Home Price Gain Forecast 12-Months Ending September 2021

0.2%



Jobs & Residential Dwelling Unit Permits Houston-The Woodlands-Sugar Land

Net

New

Dwelling

Unit

Year	Jobs	Permits	Dwelling	15 11 0111
2013	89,900	51,334	1.75	1.25 to 1.5
2014	116,800	63,745	1.83	Net New Jobs
2015	(3,200)	56,901	(0.06)	Per New
2016	2,600	44,732	0.06	
2017	49,300	42,395	1.16	Dwelling
2018	82,100	57,478	1.43	Unit
2019	82,100	63,672	1.29	
Total	419,600	380,257	1.10	

Jobs

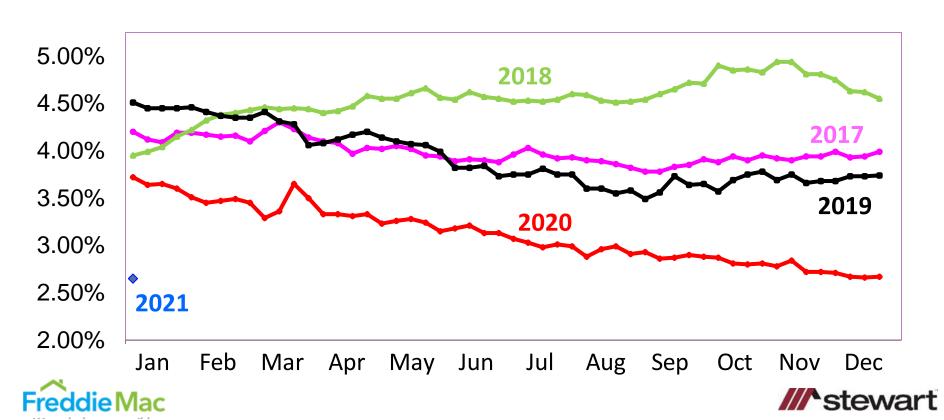
Per New

Normal

Ic from

30-Year Conventional Residential Mortgage Rates

Percent



Residential Interest Rate Forecast

December 2020

30-Year Fixed-Rate Conventional Mortgages

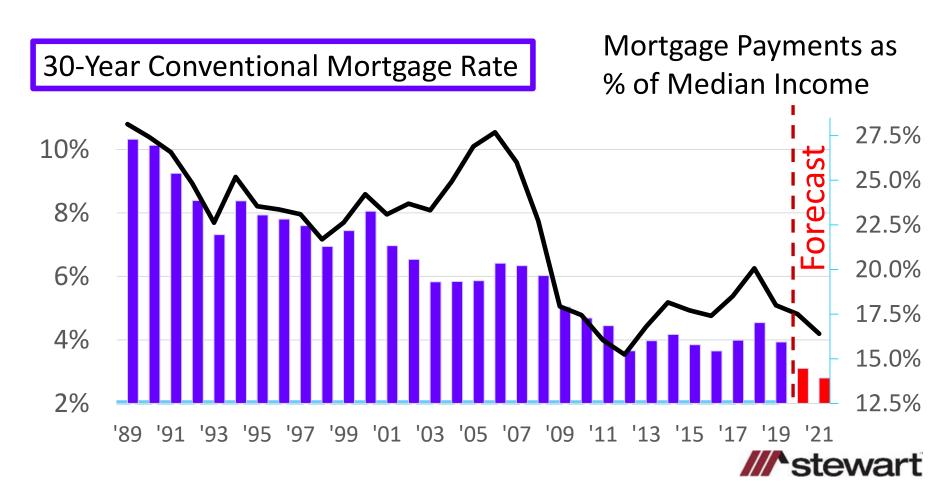
	2019	2020	2021	2022
Fannie Mae	3.9%	3.1%	2.7%	2.9%
MBA	3.5%	2.8%	3.2%	3.6%
Average	3.70%	2.95%	2.95%	3.25%



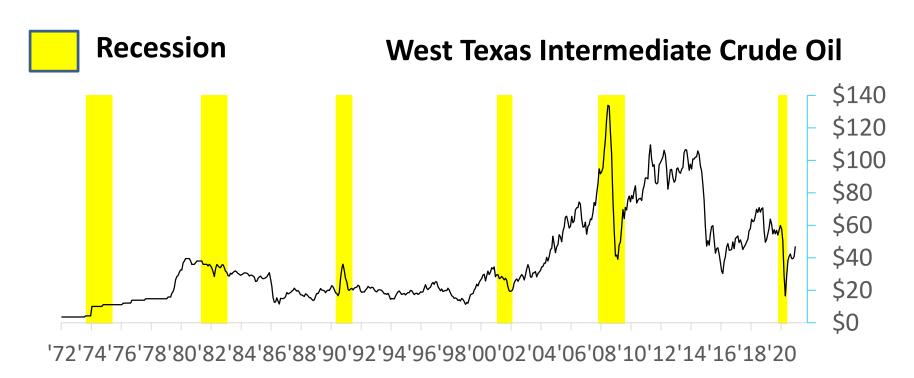




Interest Rates & Household Income



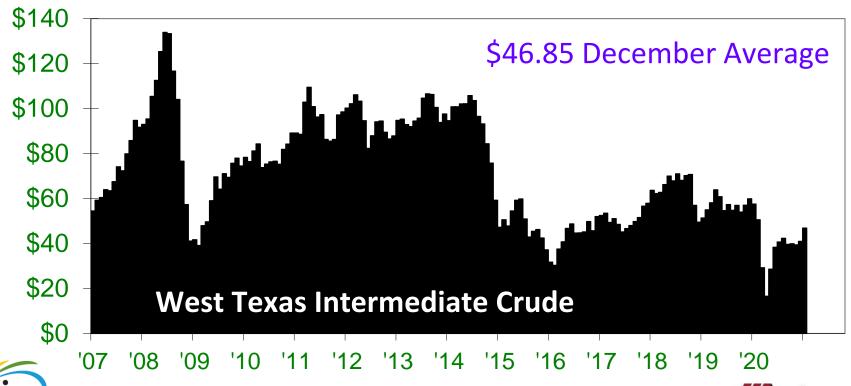
Recessions + Oil Prices





West Texas Intermediate Crude Oil Price

\$ Per Barrel





U.S. Oil Production

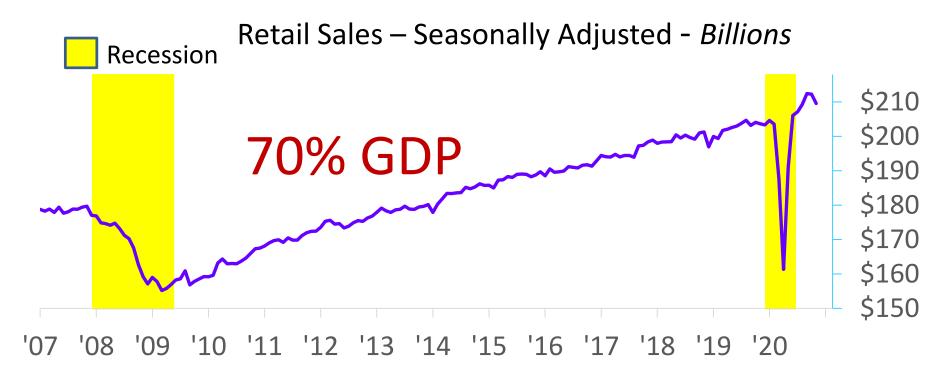
	Average Barrels Per Day	Oil Field Worker Employment Jobs Thousands							
_	Millions	Total	Extraction	Support					
2015	8.879	521.9	197.5	324.4					
2019	12.232	419.7	150	269.7					
Change	37.8%	-19.6%	-24.1%	-16.9%					

Production +38% Jobs -20%





U.S. Real Retail & Food Service Sales



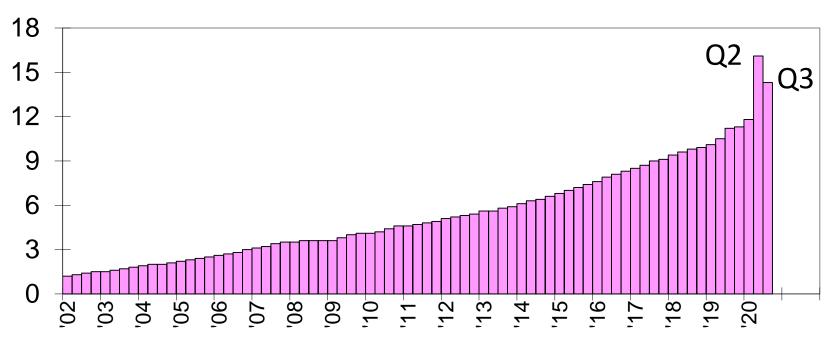




	11 Mon	th Total	November	
	\$ Millions	% Change	Percent	
Type of Business	2020	2019	Change	
Retail & Food Services - Total	5,641,170	0.3	2.5%	
Motor Vehicle & Parts Dealers	1,134,080	0.0	2.9%	Advanced
Furniture & Home Furnishing Stores	99,979	-6.4	0.4%	
Electronics & Appliance Stores	73,163	-14.1	-9.9%	Retail
Building Material & Garden Equipment & Supplies Dealers	402,647	13.4	17.2%	Calac
Food & Beverage Stores	776,988	11.6	8.5%	Sales
Grocery Stores	693,935	11.4	8.2%	Estimates
Health & Personal Care Stores	329,068	1.1	2.6%	
Gasoline Stations	385,511	-16.4	-17.9%	November
Clothing & Clothing Accessories	166,084	-28.5	-19.2%	2020
Sporting Goods, Hobby, Musical Instrument & Book Stores	73,385	4.3	14.0%	2020
General Merchandise Stores	655,820	3.1	1.0%	
Department Stores	96,267	-17.5	-19.9%	
Miscellaneous Store Retailers	119,395	-2.2	-1.8%	∠ United States®
Nonstore Retailers	860,089	22.6	30.0%	Census
Food Services & Drinking Places	564,961	-19.4	-19.3%	Bureau

E-Commerce Sales as Percentage of Total Retail

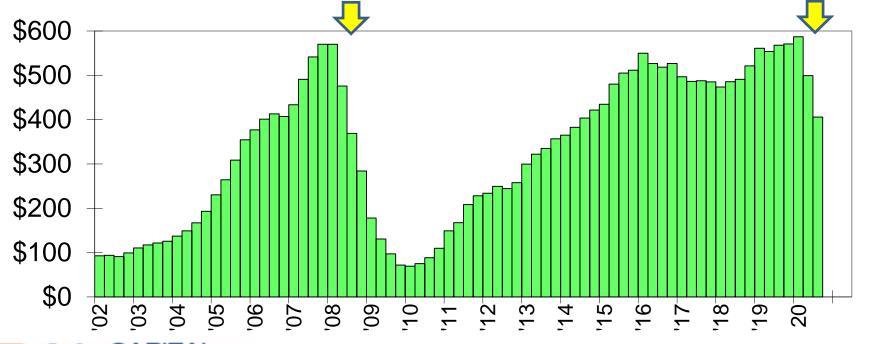
Percent





US Commercial Real Estate Sales

\$ Billions – *Trailing 12 Months*

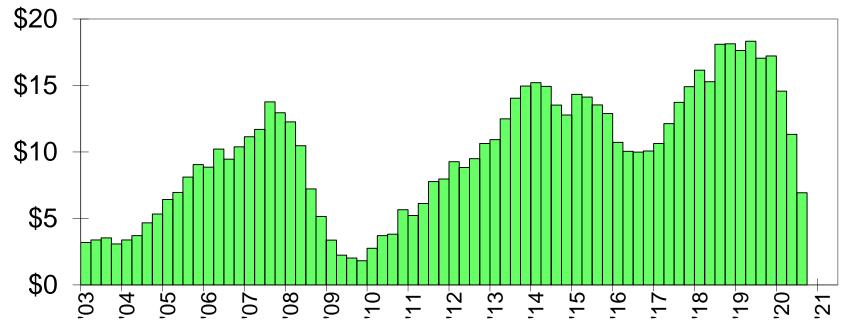






Houston Commercial Real Estate Sales

\$ Billions – Trailing 12 Months







	>	Billions		O Voore to
	2007 \$	155.594		8 Years to
U.S.	\$	154.588		Recover Back
Commercial	\$	127.375		То
	\$	132.497		
Real Estate	2008 \$	61.163	-60.7%	\$500 Billion
Sales	\$	47.868	-69.0%	Annual
Jaies	\$	42.569	-66.6%	
	\$	26.139	-80.3%	
	2009 \$	13.769	-91.2%	-60.7%
Comparisons to	\$	14.290	-90.8%	
Same Quarter 2007	\$	17.207	-86.5%	Q3 2020
	\$	23.618	-82.2%	
REALCAPITAL	2010 \$	19.673	-67.8%	/// stewart

\$ Billions

		\$ E	Billions		
	2007	\$	2.693		
Houston		\$	3.359		
_		\$	4.131		
Commercial		\$	2.764		
Real Estate	2008	\$	1.998	-25.8%	70.60/
_		\$	1.574	-53.1%	-73.6%
Sales		\$	0.883	-78.6%	Q3 2020
		\$	0.686	-75.2%	1
	2009	\$	0.226	-91.6%	Year
Comparisons to		\$	0.437	-87.0%	Over
Same Quarter 2007		\$	0.667	-83.9%	Year
		\$	0.480	-82.6%	
REAL CAPITAL ANALYTICS	2010	\$	1.163	-41.8%	///stewart

Houston Commercial Real Estate Sales 2020 Vs 2019

Apar	rtm	ents			Indu	str	ial			Hote	el				
\$ Mil	lion	s			\$ Mi	llio	ns			\$ Mi	llior	ıs			
				Percent					Percent						Percent
	20	19	2020	Change		20	19	2020	Change		20	19		2020	Change
Q1	\$	1,705.4	\$ 1,241.3	-27.2%	Q1	\$	373.6	\$ 1,255.9	236.2%	Q1	\$	45.5	\$	45.2	-0.7%
Q2	\$	1,857.9	\$ 347.4	-81.3%	Q2	\$	391.9	\$ 228.3	-41.7%	Q2	\$	156.0	\$	10.9	-93.0%
Q3	\$	1,484.6	\$ 451.6	-69.6%	Q3	\$	1,409.3	\$ 179.8	-87.2%	Q3	\$	233.8	\$	45.7	-80.5%
YTD	\$	5,048.0	\$ 2,040.3	-59.6%	YTD	\$	2,174.9	\$ 1,664.0	-23.5%	YTD	\$	435.3	\$	101.7	-76.6%
Offic	ces				Reta	il				Seni	or I	Housing	. &	Care	
\$ Mil	lion	S			\$ Mi	llio	ns			\$ Mi	llior	ıs			
				Percent					Percent						Percent
	20	19	2020	Change		20	19	2020	Change		20	19		2020	Change
Q1	\$	710.6	\$ 481.6	-32.2%	Q1	\$	237.4	\$ 245.3	3.3%	Q1	\$	-	\$	157.5	
Q2	\$	725.3	\$ 109.6	-84.9%	Q2	\$	283.1	\$ 178.4	-37.0%	Q2	\$	42.4	\$	8.0	-81.1%
Q3	\$	701.3	\$ 247.1	-64.8%	Q3	\$	381.4	\$ 104.8	-72.5%	Q3	\$	64.2	\$	17.8	-72.3%
YTD	\$	2,137.2	\$ 838.3	-60.8%	YTD	\$	901.9	\$ 528.5	-41.4%	YTD	\$	106.6	\$	183.3	72.0%





U.S. Leisure & Hospitality Employ BLS





100,000



The National Restaurant Association says 100,000 restaurants have shuttered either permanently or indefinitely & that 40% of restaurant proprietors surveyed think they will be out of business by Spring 2021 without government support



@USATODAYmoney



Retail Real Estate Woes

The Shops at Sunset Place, an outdoor shopping mall in South Miami, Florida, which sold for \$115.5 million in October 2015, just resold for \$65.5 million, a 41.3% drop in value due to increased nearby competition, the pandemic & ecommerce



@GlobeStcom

-41.3%

DrTCJ

7:39 PM · Jan 6, 2021 · Twitter Web App



In-store traffic from the Sunday prior to Thanksgiving through Saturday January 2nd plunged 33.1% from the same period 1-year ago

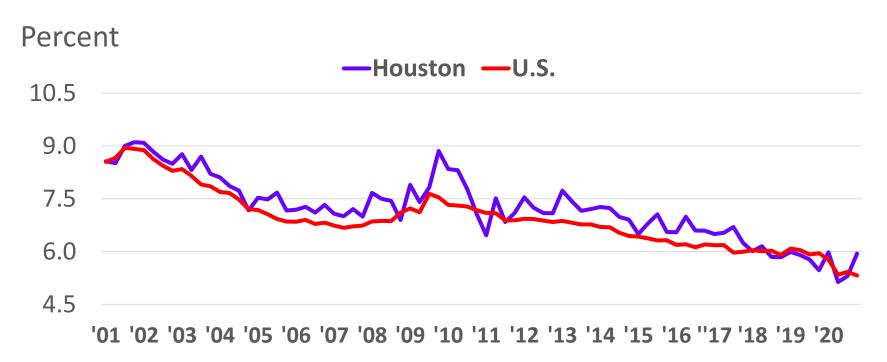


- @Sensormatic
 @ChainStoreAge
- 7:33 AM · Jan 6, 2021 · Twitter for iPad



-33.1%

U.S. & Houston Cap Rates







Tax Cut & Jobs Creation Act



Repeal the Act

Gross Domestic Product (GDP)	-1.62%					
Capital stock	-3.75%					
Wage rate	-1.15%					
Full-time Equivalent Jobs	-542,000					
Source: Tax Foundation General Equilibrium Model, October 2020.						



Corporate Tax Rate



28%



21%

U.S. Currently Ranks 19th



Biden's Plan
Drops the
U.S. to
33rd Out of 36



Capital Gains Taxes



43.4%

Eliminate 1031s \$400,000+ Income



20%

Assuming ACA
Ruled Unconstitutional



Housing

\$640 Billion 10-Year Plan

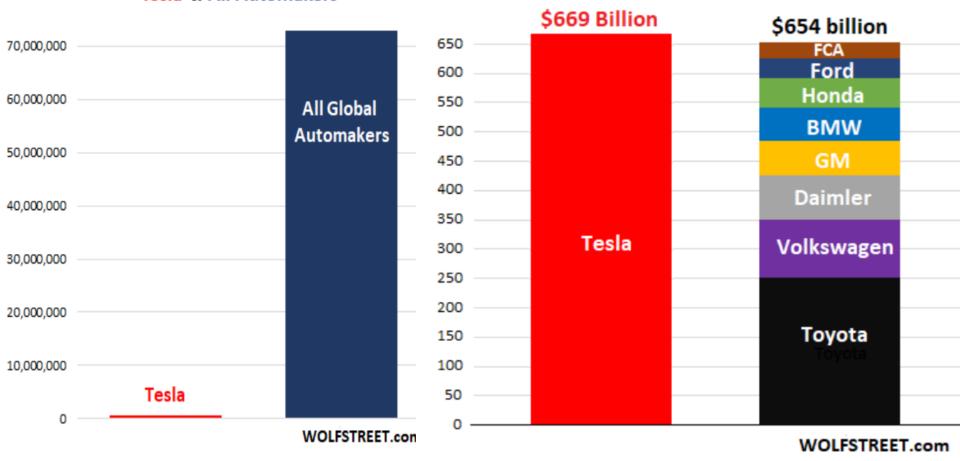
- Expand Voucher System
- State Affordable Housing Expansion
- Mitigation of Discriminatory Practices from Obama Era
- Restore Fair-Housing Rules



Global Deliveries in 2020 (est.): Tesla v. All Automakers

Market Capitalization, in USD

On Dec 31 2020





http://blog.stewart.com

stewart.com

Stewart Blog

THE 3 R's OF REAL ESTATE AND THE ECONOMY



REINVENT



RECHARGE



Ted C. Jones, PhD Chief Economist SVP

