Commercial Economic Issues and Trends Forum

Economic Trends and Outlook in a Rising Interest Rate Environment

Lawrence Yun, PhD

Chief Economist, National Association of REALTORS®

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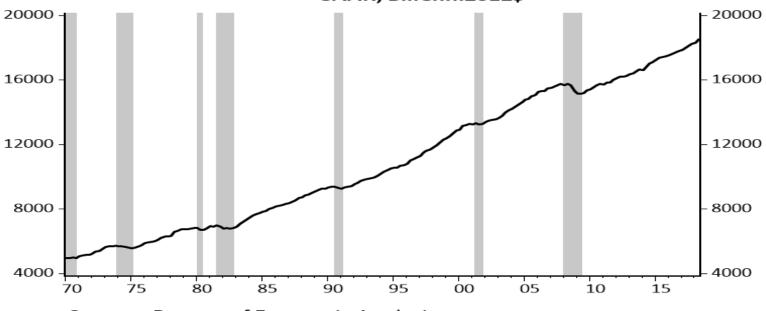




Very Long Economic Expansion

Real Gross Domestic Product





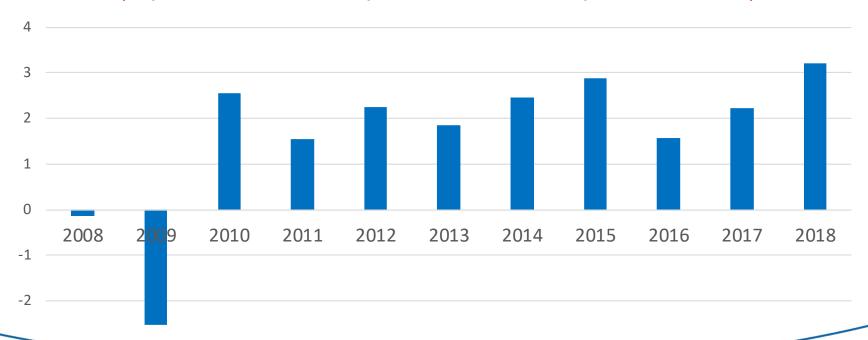
Source: Bureau of Economic Analysis







Annual GDP Growth Rate of 3.2% in 2018? (Q1 at 2.2%; Q2 at 4.2%; Q3 at 3.5%)





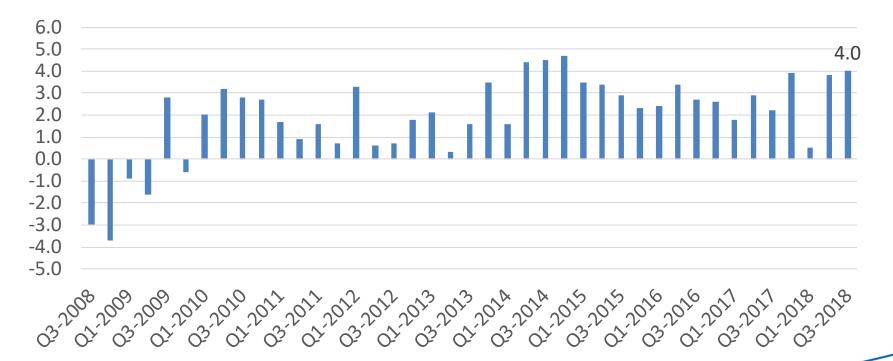


GDP Components Growth Rates

	2018 Q2	2018 Q3	Upcoming Quarters	
Consumer Spending	3.8%	4.0%	+2%	
Business Spending	8.7%	0.8%	+3%	
Government Spending	2.5%	3.3%	0%	
Net Exports	Slight Gain	Slight Loss	Slight Loss	
Commercial Real Estate Investment	+14.5%	-7.9%	+3%	
Residential Real Estate Investment	-1.4%	-4.0%	+4%	
GDP	+4.2%	+3%	+2.2%	



Consumer Spending Growing Strongly: 4%

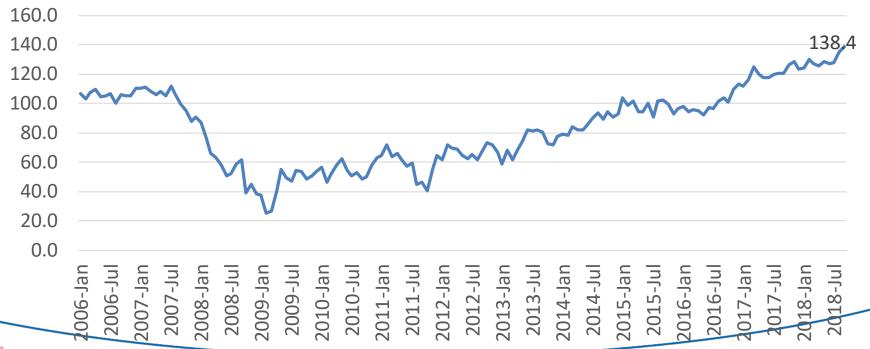






Animal Spirit Revival of Consumers

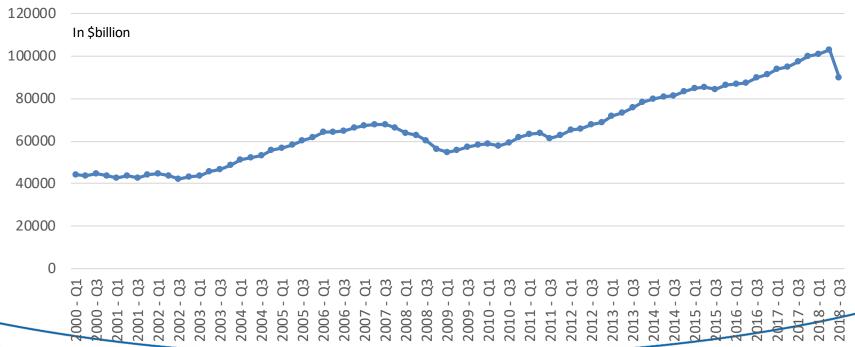
Consumer Confidence Index (1985=100)







Near Record High Wealth

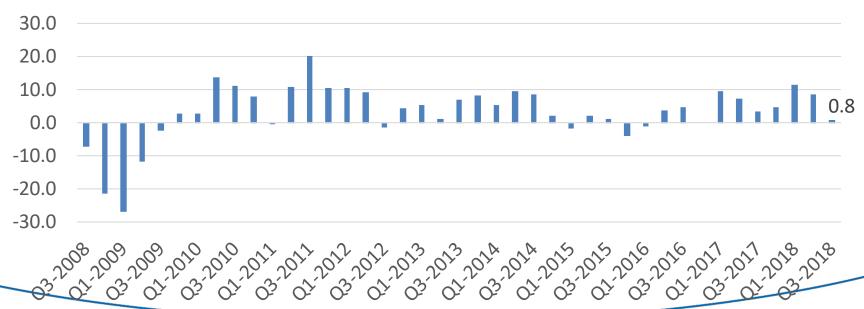






Business Spending Growth Tapers Off: 0.8%

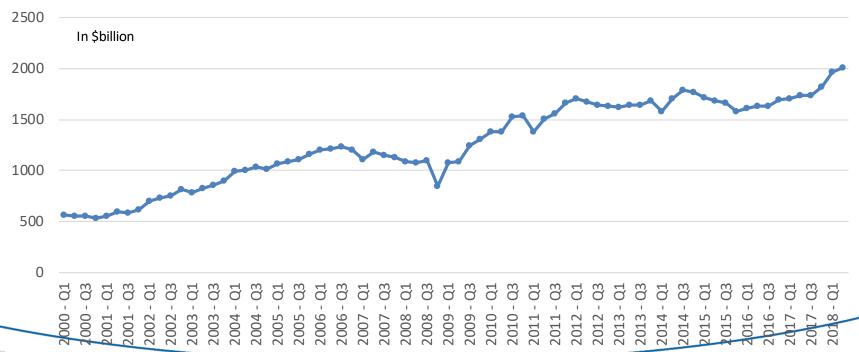








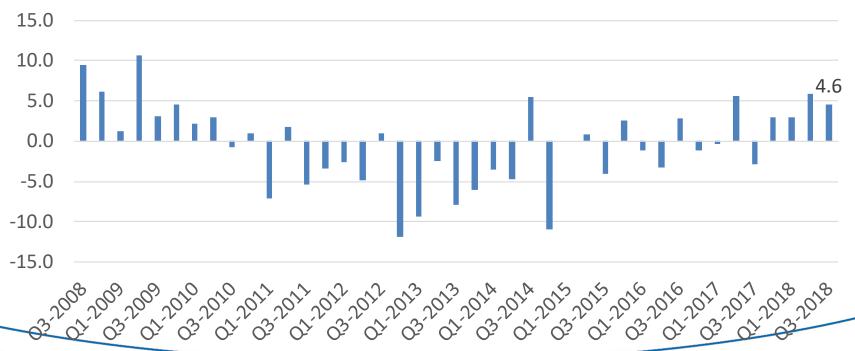
After-Tax Corporate Profits







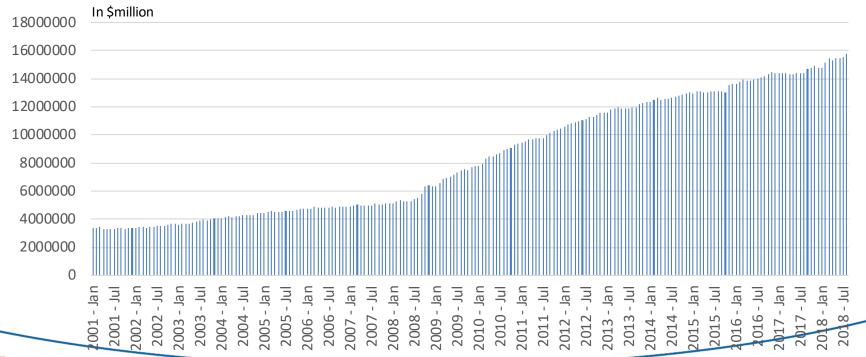
National Defense Spending Has Been Contributing to Growth: 4.6%







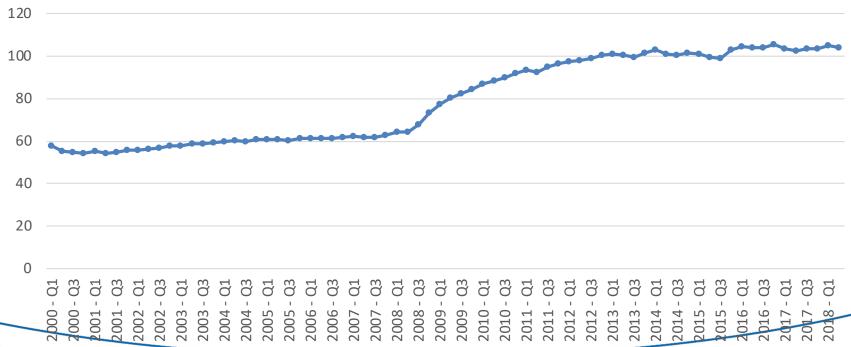
National Debt Held by Public







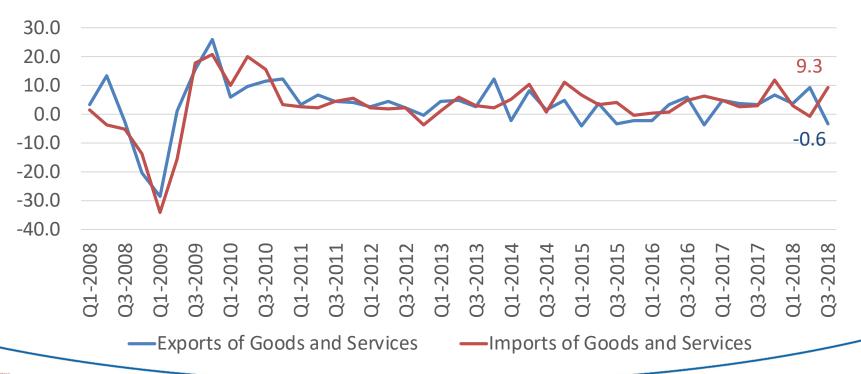
National Debt to GDP (%)







Imports Growth Outpace Exports

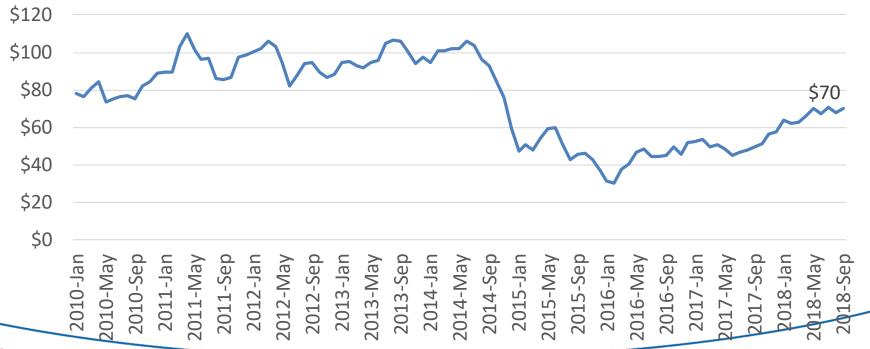






Oil Price – Bouncing Off Lows and Stabilizing

(West Texas Intermediate)

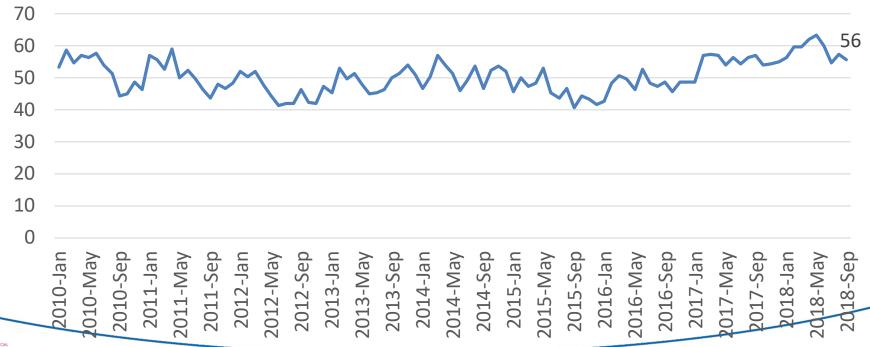






Backlog of Orders: Breaking Higher

(50+: Economy is Expanding)

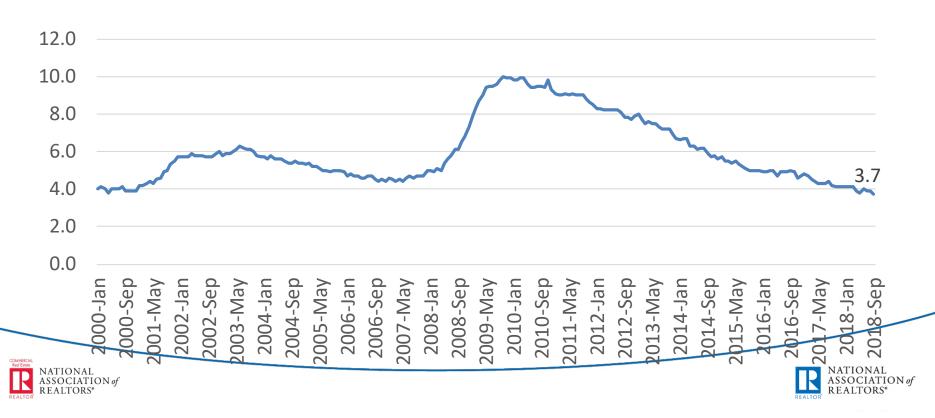






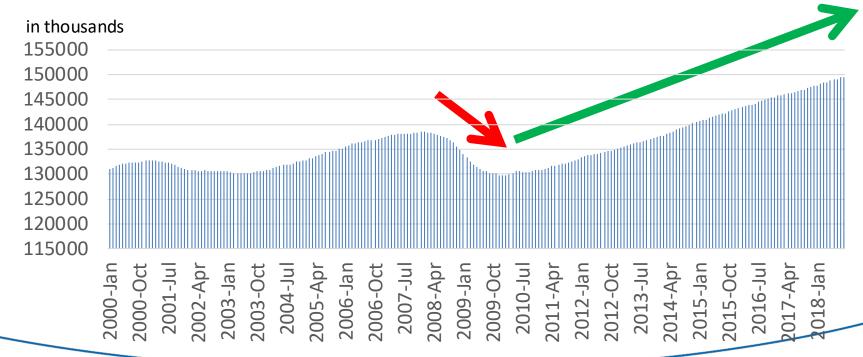
Low Unemployment Rate

(Sept 2018 figure is lowest since 1969)



Job Gains for 103 straight months

(19.8 million gained from Feb 2010)

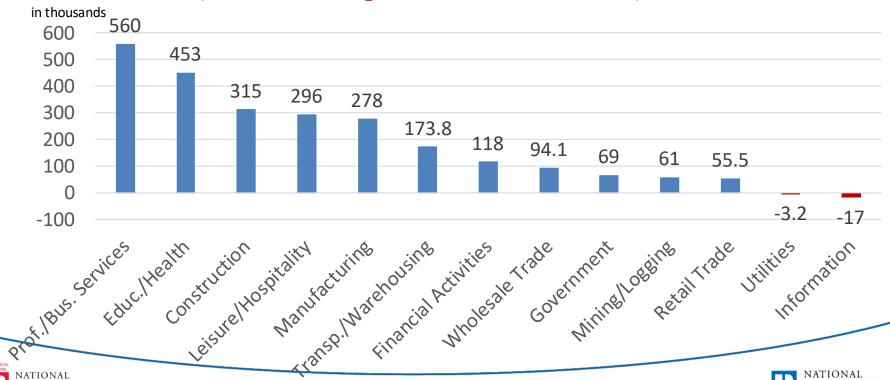






Net Jobs Generated by Industry

(Oct 2017-Sept 2018, in thousands)

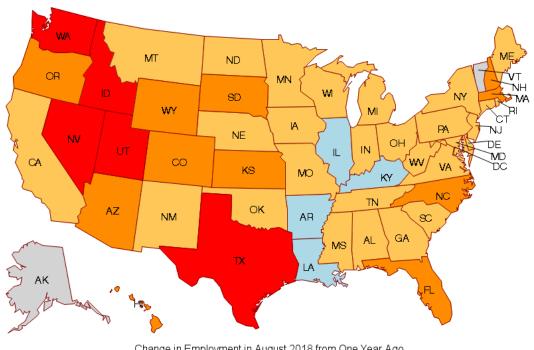






Recent Employment Growth

(year over year % growth from August 2017 to August 2018)

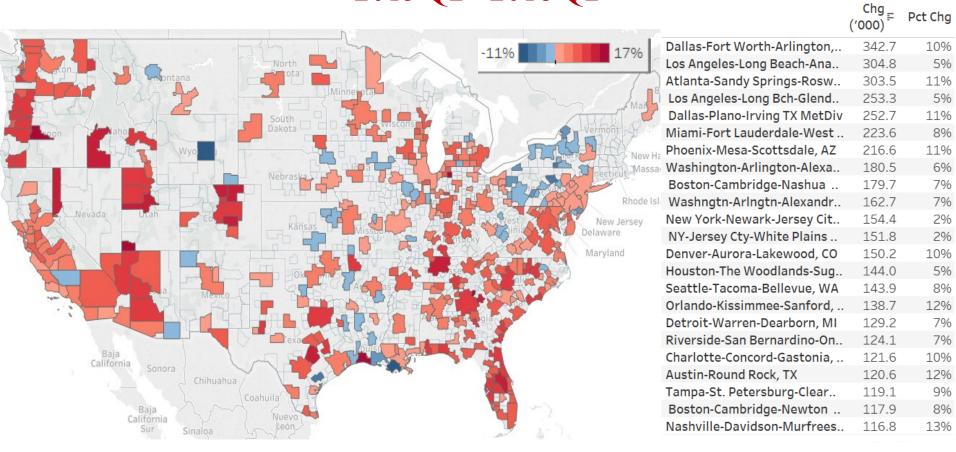






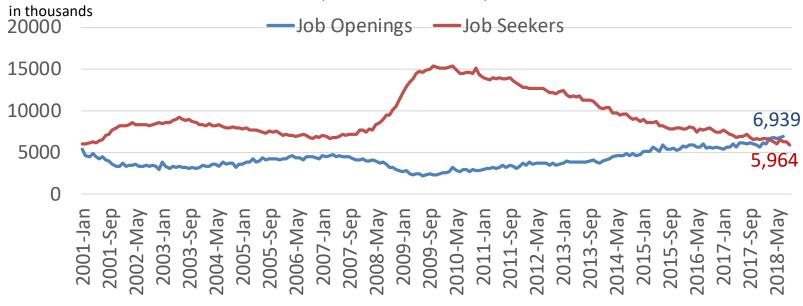
1+% to 2%

Many Metros Have Over 3% Job Growth 2015 Q2- 2018 Q2



More Job Openings Than Job Seekers

(in thousands)

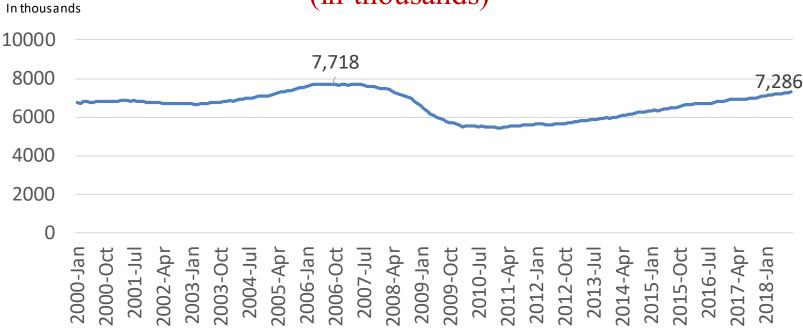






Construction Workers Still Below Peak

(in thousands)







Construction Job Wage Increase

(year over year % growth)

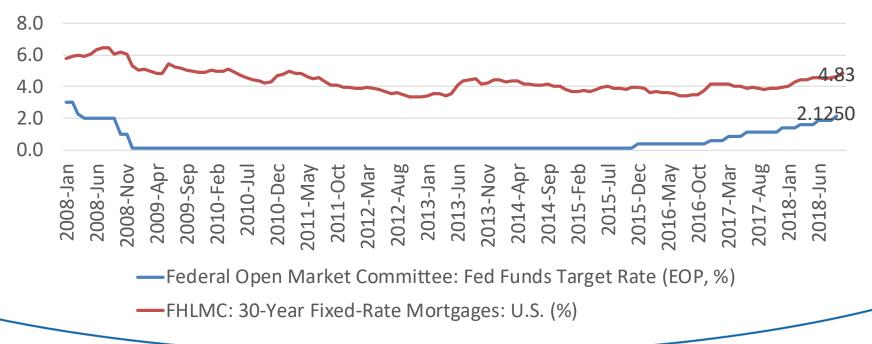






Interest Rates On the Rise

FOMC Target and 30-Year Mortgage Rate (as of Oct 2018)

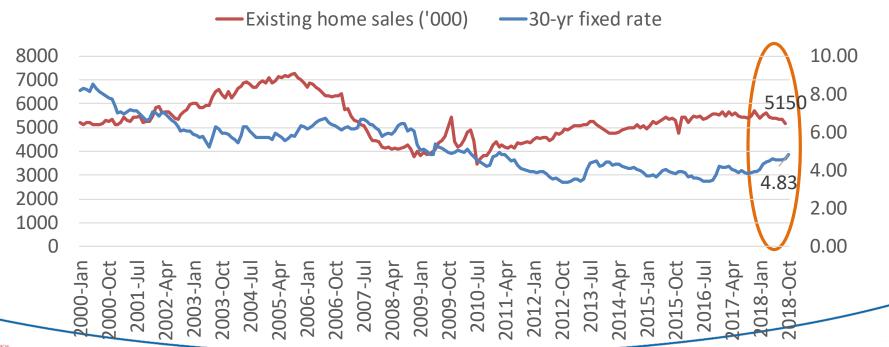






Slower Home Sales:

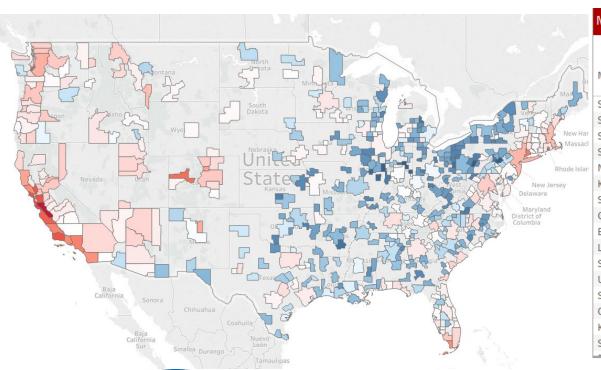
Mix of Rising Interest Rates and Rising Prices







Home Prices Still Rising in the West

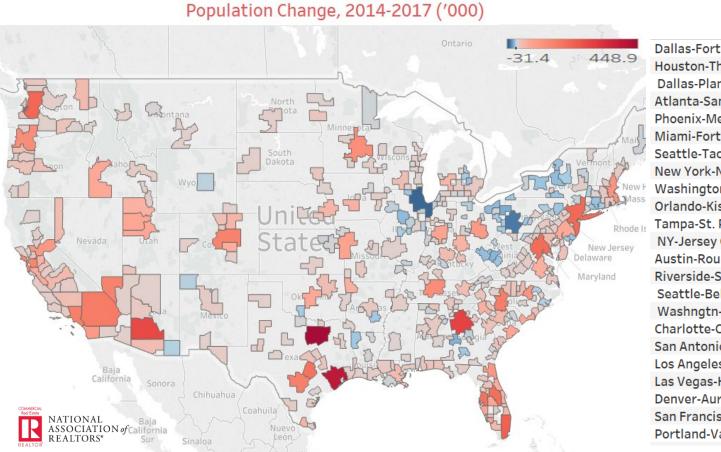


Median Listing Price	edian Listing Price on Realtor.com							
	Price		Y/Y Change					
Metro Area	Septemb er 2018 =	September 2017	September 2018	September 2017				
San Jose-Sunnyvale-Sant	\$1,145,300	\$1,095,800	4.5%	21.8%				
Santa Cruz-Watsonville,	\$930,000	\$906,300	2.6%	3.7%				
Santa Maria-Santa Barba	\$899,500	\$949,500	-5.3%	-15.8%				
San Francisco-Oakland-H	\$899,050	\$868,050	3.6%	8.2%				
Napa, CA	\$875,425	\$876,288	-0.1%	0.1%				
Kahului-Wailuku-Lahaina	\$867,050	\$792,050	9.5%	5.7%				
Salinas, CA	\$860,025	\$904,550	-4.9%	3.7%				
Glenwood Springs, CO	\$803,300	\$798,300	0.6%	8.7%				
${\bf Bridge port\text{-}Stamford\text{-}No}$	\$749,050	\$742,500	0.9%	12.5%				
Los Angeles-Long Beach	\$736,494	\$700,000	5.2%	4.1%				
San Luis Obispo-Paso Ro	\$724,800	\$699,050	3.7%	2.8%				
Urban Honolulu, HI	\$697,050	\$695,050	0.3%	5.5%				
Santa Rosa, CA	\$695,050	\$750,050	-7.3%	6.2%				
Oxnard-Thousand Oaks-V	\$691,300	\$710,025	-2.6%	1.6%				
Key West, FL	\$687,050	\$650,000	5.7%	13.0%				
San Diego-Carlsbad, CA	\$669,950	\$661,219	1.3%	5.6%				





Metros With Largest Population Increase, 2014-2017



	Chg ₌	Pct Chg
	(′000)	
Dallas-Fort Worth-Arling	448.9	6.5%
Houston-The Woodlands	395.6	6.1%
Dallas-Plano-Irving TX M	308.8	6.7%
Atlanta-Sandy Springs-R	279.6	5.0%
Phoenix-Mesa-Scottsdale	266.6	6.0%
Miami-Fort Lauderdale	215.2	3.6%
Seattle-Tacoma-Bellevue	199.9	5.4%
New York-Newark-Jersey	195.5	1.0%
Washington-Arlington-Al	187.1	3.1%
Orlando-Kissimmee-Sanf	181.9	7.8%
Tampa-St. Petersburg-Cl	174.6	6.0%
NY-Jersey Cty-White Plai	174.2	1.2%
Austin-Round Rock, TX	173.6	8.9%
Riverside-San Bernardin	154.9	3.5%
Seattle-Bellevue-Everett	151.9	5.4%
Washngtn-Arlngtn-Alexa	150.2	3.2%
Charlotte-Concord-Gasto	149.2	6.3%
San Antonio-New Braunf	145.6	6.3%
Los Angeles-Long Beach	144.5	1.1%
Las Vegas-Henderson-Pa	139.1	6.7%
Denver-Aurora-Lakewoo	138.4	5.0%
San Francisco-Oakland-H	131.4	2.9%
Portland-Vancouver-Hills	110.7	4.7%

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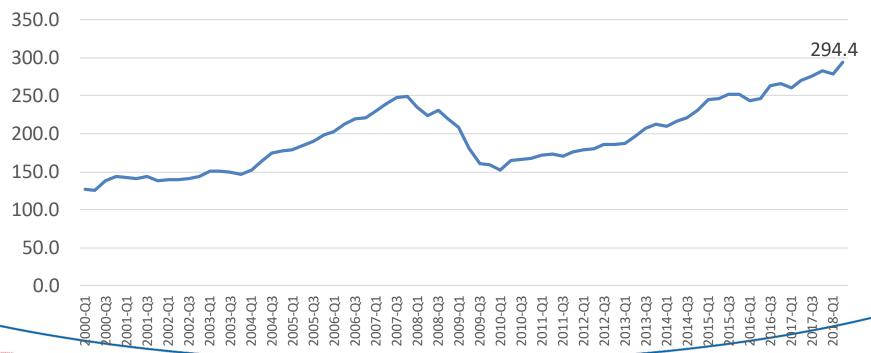
Commercial Real Estate Trends





Commercial Property Prices

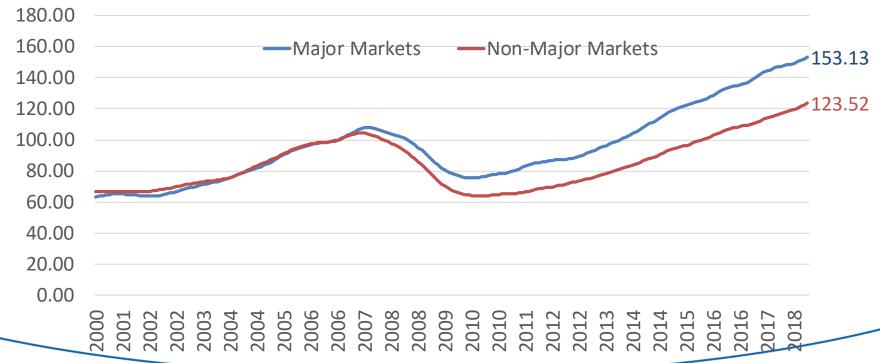
(93% gain in 8 years)







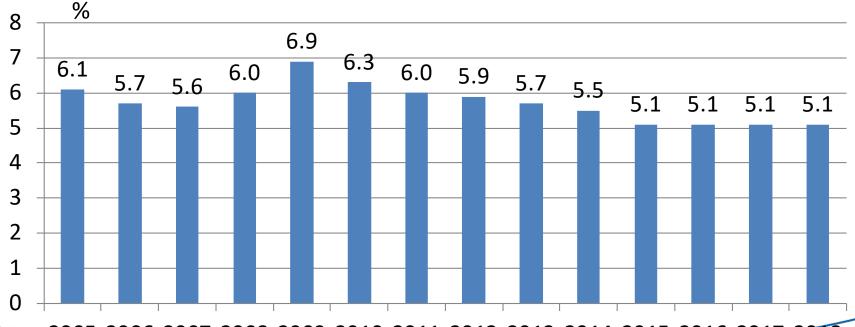
Prices Rose More Strongly in Major Markets* than in Non-Major Markets







NCREIF Cap Rates – Likely Already Hit Cyclical Low

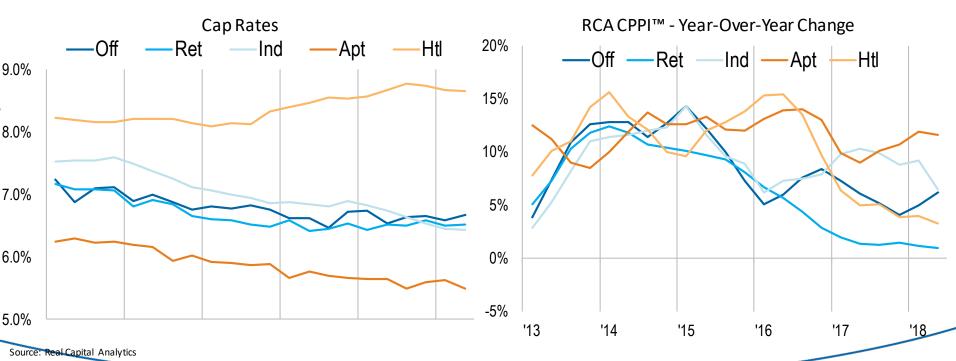


2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018





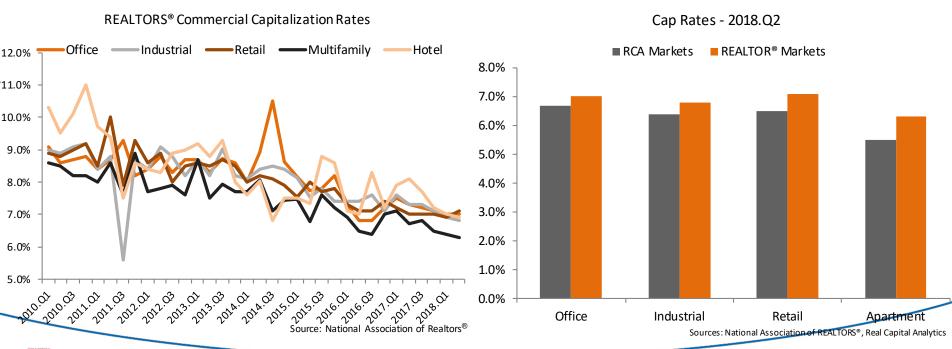
Prices Moving Sideways among Transactions above \$2.5 million







REALTORS® Cap Rates Experiencing Upward Pressure

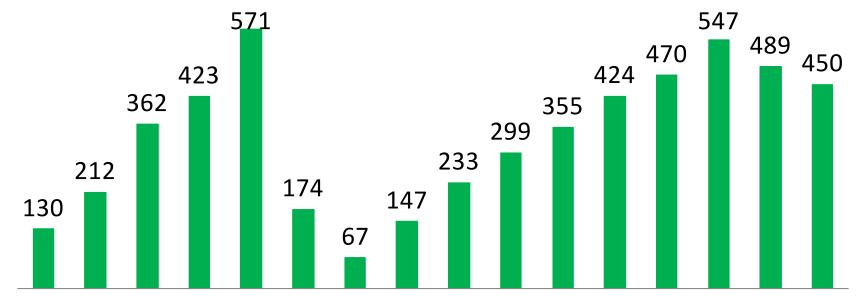






Commercial Investment Sales of Large Properties

(Properties valued at \$2.5 million and over)



2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017





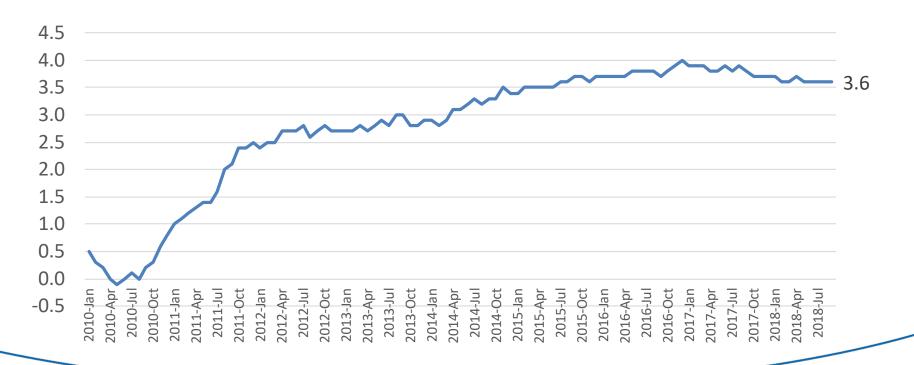
REALTORS® Reported Rising but Slowing Investment Momentum in 2018







Rent Growth – Broadly Tapering

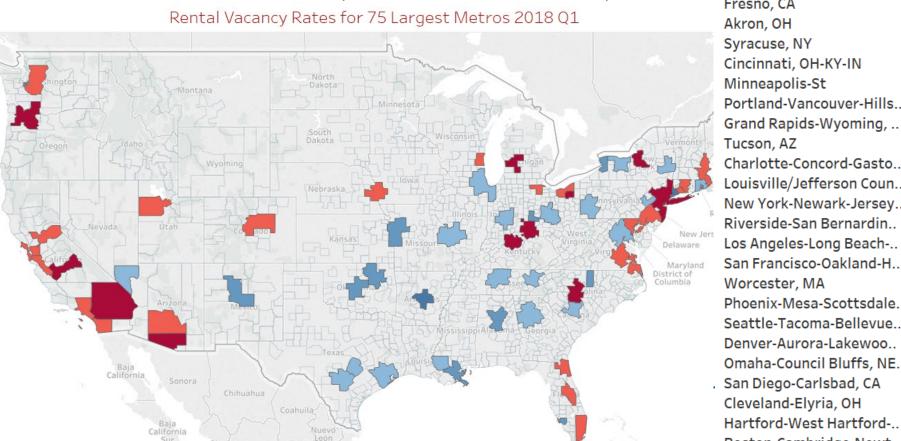






Rental Vacancy Rates in 75 Largest Metros, 2018 Q1

(red areas: below 7%)



Fresno, CA Akron, OH Syracuse, NY Cincinnati, OH-KY-IN Minneapolis-St Portland-Vancouver-Hills.. Grand Rapids-Wyoming, .. Tucson, AZ

1.60

2.30

2.40

3.40

3.50

3.60 3.90

3.90

4.00

4.00

4.00

4.00

4.20

4.30 4.40

4.60 4.60

4.80

4.80

4.80

4.90

Louisville/Jefferson Coun.. New York-Newark-Jersey.. Riverside-San Bernardin...

Worcester, MA Phoenix-Mesa-Scottsdale.. Seattle-Tacoma-Bellevue..

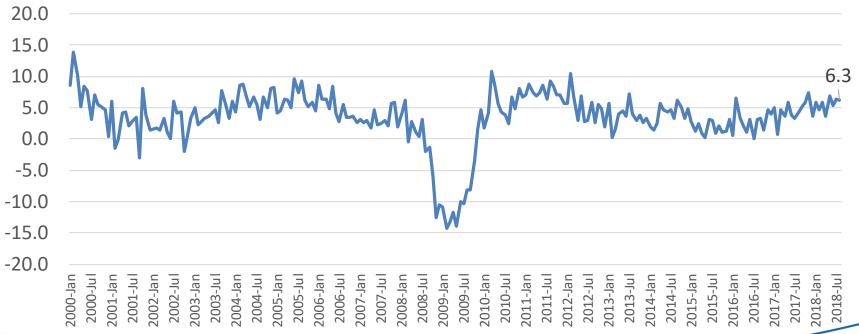
Denver-Aurora-Lakewoo... Omaha-Council Bluffs, NE..

 San Diego-Carlsbad, CA Cleveland-Elyria, OH Hartford-West Hartford-..

5.00 5.20 Boston-Cambridge-Newt..

Retail Sales—Growing Strongly

(year over year % change)







E-commerce Retail Sales

(growing more than 2 times as fast as traditional retail sales)







Long-run Fundamentals Still Solid

OFFICE

- Office demand strong, due to rising employment (15.5MSF in Q2)
- Mobile workforce; increased telecommuting
- Flexible space layouts
- Moderate supply (11.1MSF in Q2) leads to 13% vacancy & 1.3% rent growth

RETAIL

- Department stores lose ground
- Malls close/redevelop; soft absorption
- Small/discount grocery stores heat up: Aldi
- Amazon moves into grocery space with Whole Foods
- Completions remain low (7.0MSF in Q2)
- Rents experience solid growth (5.1% Q2)





- Increased trade & rising e-commerce place industrial sector on hot streak
- "Last mile" distribution + Intermodal logistics
- Panama Canal; East coast ports
- Net absorption remains strong (58.8MSF in Q2)
- Net rent growth reaches record (\$7.1PSF in Q2)

APARTMENT

INDUSTRIAL



- Mixed-use urban development; live/work/play
- Class A supply; small floorplans; amenities
- Demand remains robust; 12-mo net absorption:
 249,000 units
- 12-mo Completions: 276,000 units
- Vacancy moves up to 4.7%; moderates rent growth (2.0% YoY in Q2.18)



STORE CLOSING



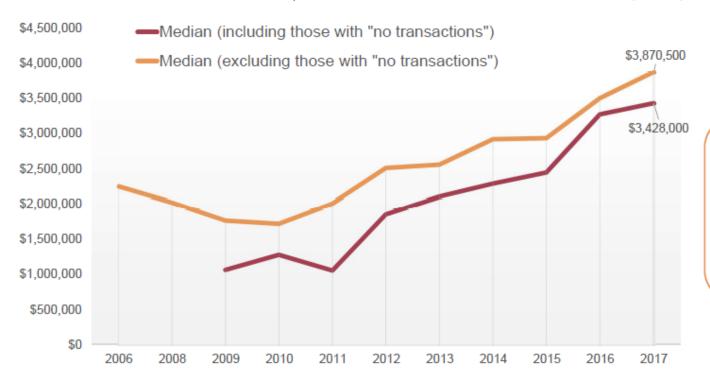
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2018 Commercial Member Profile Highlights





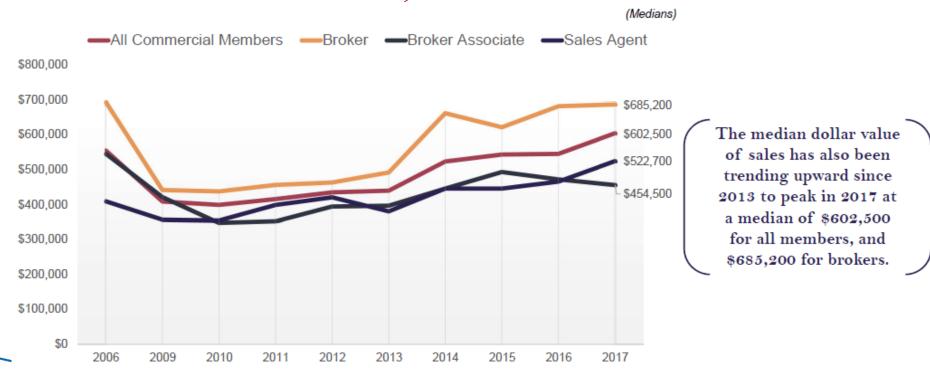
Sales Transactions Volume Trending Upwards: \$3.87 Million in 2017 (Medians)



The sales transactions volume has been on a steady upward trend since 2010-2011 and reached a peak in 2017 with a median of \$3,870,500 among members who had a transaction.



Median Dollar Value of Sales Trending Upwards: \$602,500 in 2017



TIME SERIES 3



Pacific Region: Highest Median Sales at \$926,500

Highest Median at \$926,500

(Percentage Distribution)

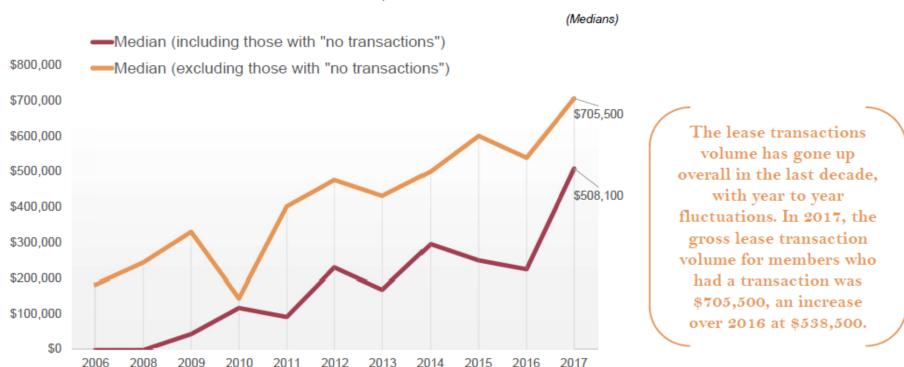
EAST SOUTH CENTRAL had the lowest dollar value of sales at \$392,900.

Region

	All Commercial Members	New England	Mid-Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Less than \$100,000	7%	10%	9%	4%	5%	12%	13%	5%	3%	5%
\$100,000 to \$249,999	12	16	11	19	22	9	17	13	12	6
\$250,000 to \$499,999	26	29	33	30	19	24	35	28	32	10
\$500,000 to \$999,999	24	23	20	31	29	22	15	15	25	34
\$1,000,000 to \$1,999,999	14	10	10	10	12	13	13	23	14	18
\$2,000,000 to \$4,999,999	12	6	14	6	12	12	4	11	9	18
\$5,000,000 or more	5	6	3	1	2	7	2	5	5	8
Median	\$602,500	\$456,900	\$477,300	\$475,000	\$569,000	\$613,600	\$392,900	\$633,300	\$560,000	\$926,500

Region

Lease Transactions Volume Trending Upwards: \$705,500 in 2017



TIME SERIES 4

Note: For multi-year lease terms, respondents included the total multi-year lease value. E.g., 3 year lease that is \$500,000 per year, should be recorded as \$1,500,000.

But Median Lease Value Slightly Dipped: \$215,400 in 2017

The dollar value of lease transactions took a slight dip to a median of \$215,400 in 2017, down from \$220,000 in 2016.

Licensed As

	All Commercial Members	Broker	Broker Associate	Sales Agent
Less than \$100,000	31%	28%	33%	35%
\$100,000 to \$249,999	25	24	25	24
\$250,000 to \$499,999	20	21	19	19
\$500,000 to \$999,999	12	13	10	12
\$1,000,000 to \$1,999,999	6	7	6	4
\$2,000,000 to \$4,999,999	5	4	6	4
\$5,000,000 or more	2	2	1	3
Median	\$215,400	\$237,500	\$202,000	\$1 93,800

(Percentage Distribution)

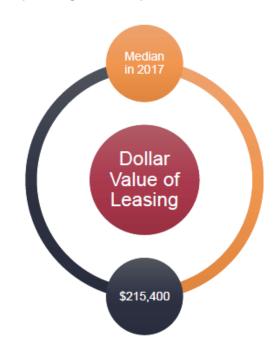


EXHIBIT 3-19

Multi-family: Nearly 50 Percent of Commercial Investment Transactions in 2017

(Percent of Respondents)

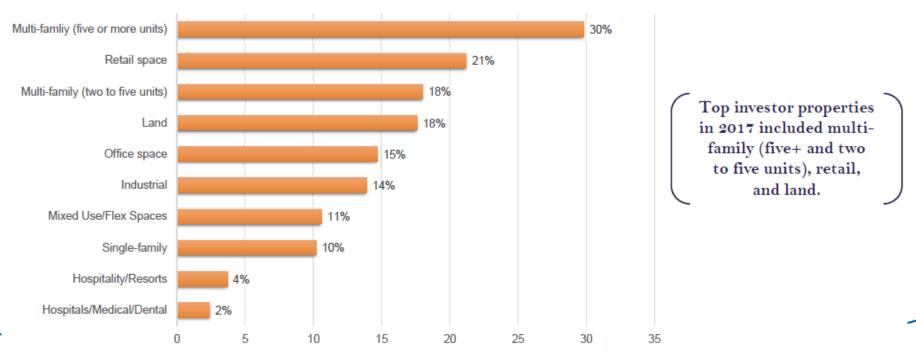
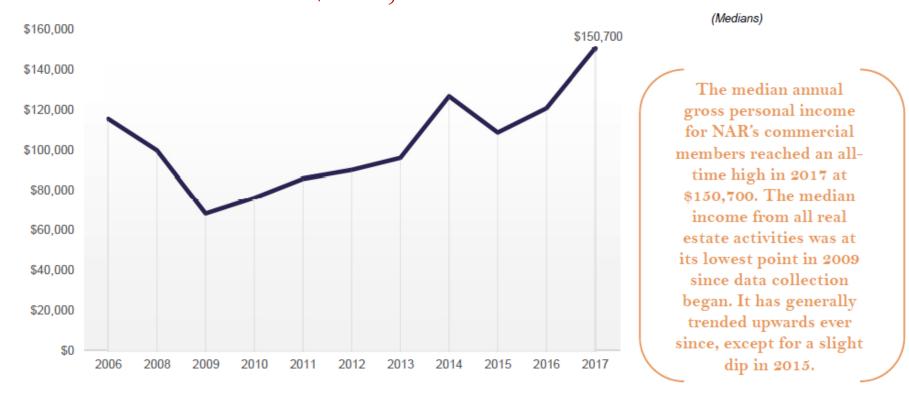


EXHIBIT 3-22

Median Gross Personal Income Trending Upwards: \$150,700 in 2017



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Macroeconomic Forecast for 2018-2019



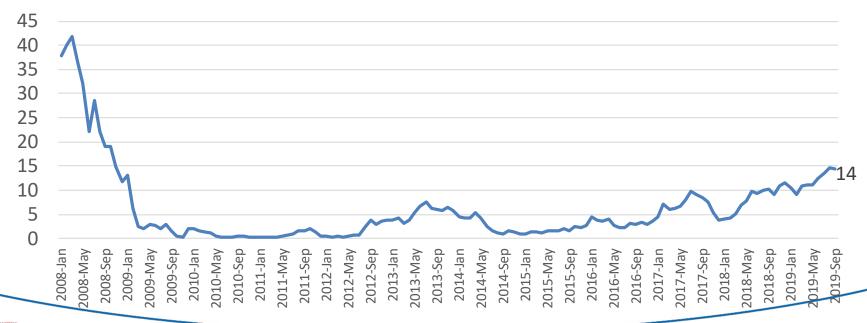


Narrowing Yield Spread Between 3-Month and 30-Year Treasuries



Low Probability of a Recession

(NY Fed: based on interest rate spread)







Old Economic Forecast

(as of May 2018)

U.S. ECONOMIC OUTLOOK — May 2018											
	2016	2017	2018	2019							
Annual Growth Rate, % Real GDP	1.5	2.3	2.7	2.8							
Nonfarm Payroll Employment	1.8	1.4	1.6	1.6							
Consumer Prices Level	1.3	2.1	2.9	2.8							
Consumer Confidence	100	120	127	129 (
Percent Unemployment	4.9	4.4	4.0	4.0							
Fed Funds Rate	0.4	1.0	1.8	2.4							
3-Month T-bill Rate	0.3	1.0	1.9	2.5							
Prime Rate	3.5	4.1	5.0	5.6							
10-Year Gov't Bond	1.8	2.3	3.1	3.5							
30-Year Gov't Bond	2.6	2.9	3.3	3.8							





New Economic Forecast

U.S. ECONOMIC OUTLOOK — October 2018

	2016	2017	2018	2019
Annual Growth Rate, %				
Real GDP	1.5	2.3	3.0	2.6
Nonfarm Payroll Employment	1.8	1.4	1.6	1.4
Consumer Prices	1.3	2.1	2.9	2.7
Level				
Consumer Confidence	100	120	130	128
Percent				
Unemployment	4.9	4.4	3.9	3.9
Fed Funds Rate	0.4	1.0	1.8	2.6
3-Month T-bill Rate	0.3	1.0	2.0	2.7
Prime Rate	3.5	4.1	4.9	5.6
10-Year Gov't Bond	1.8	2.3	3.0	3.5
30-Year Gov't Bond	2.6	2.9	3.2	3.7

Source: National Association of REALTORS®

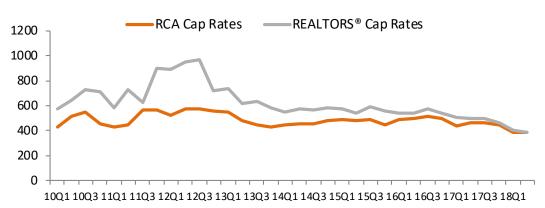
Commercial Real Estate Forecast

Commercial Real Estate Vacancy Fore	cast (%)
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	2017.Q2	2017.Q3	2017.Q4	2018.Q1	2018.Q2	2018.Q3	2018.Q4	2019.Q1	2019.Q2	2019.Q3	2019.Q4	2020.Q1	2017	2018	2019
Office	12.7	12.7	12.0	12.7	12.4	13.2	13.2	13.1	13.0	12.8	12.8	12.7	12.8	12.9	12.9
Industrial	9.1	8.9	7.8	7.4	7.7	7.5	7.4	7.2	6.9	6.7	6.5	6.7	8.8	7.5	6.8
Retail	10.4	12.1	11.4	12.0	12.0	12.0	12.1	12.1	11.9	12.1	12.3	11.7	11.8	12.0	12.1
Multifamily	5.8	5.3	5.0	5.5	6.1	6.3	6.4	6.3	6.4	6.5	6.6	5.4	5.5	6.1	6.4

Source: National Association of REALTORS®

CRE Spreads: Cap Rates to 10-Yr. T-Notes (bps)







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Thank You



