

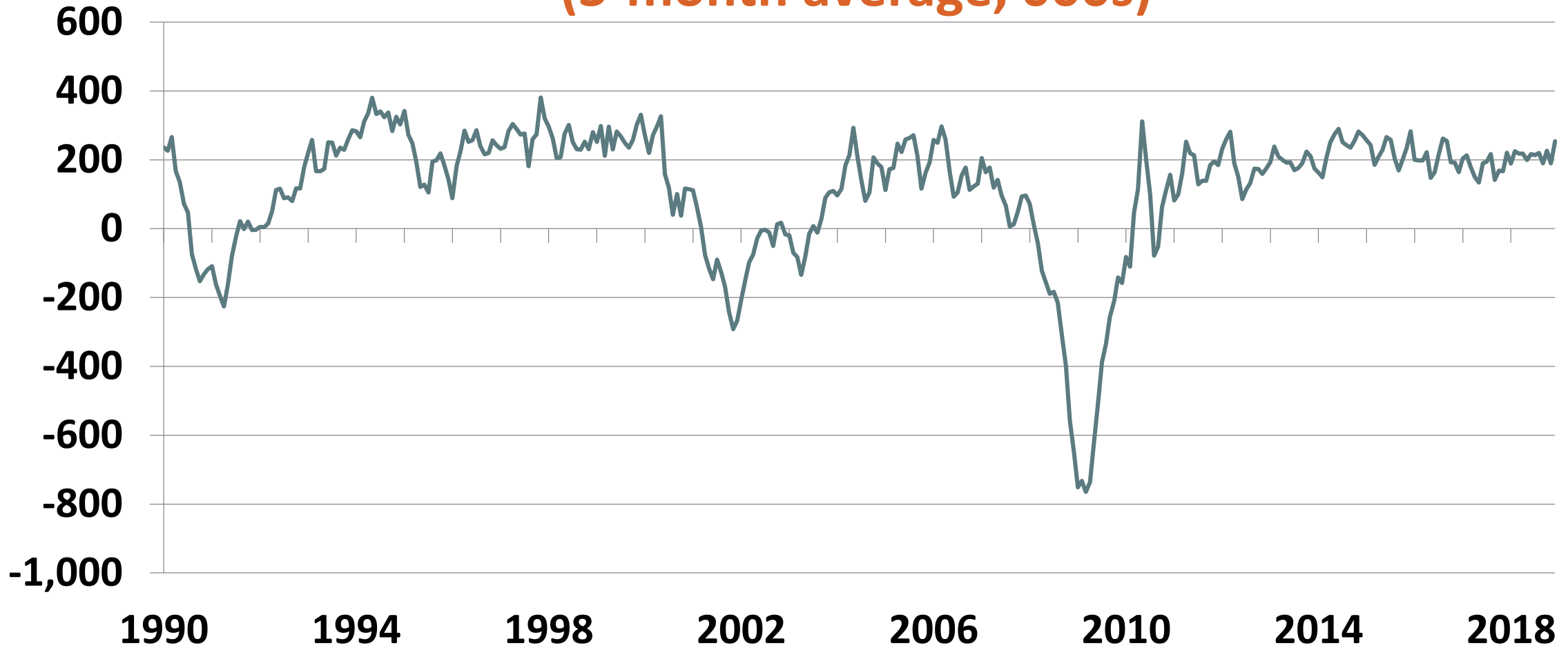
Digging Deeper: The Multifamily Market Outlook

Kim Betancourt, Fannie Mae
Jay Lybik, Institutional Property Advisors
Greg Willett, RealPage
Mark Obrinsky, NMHC, moderator

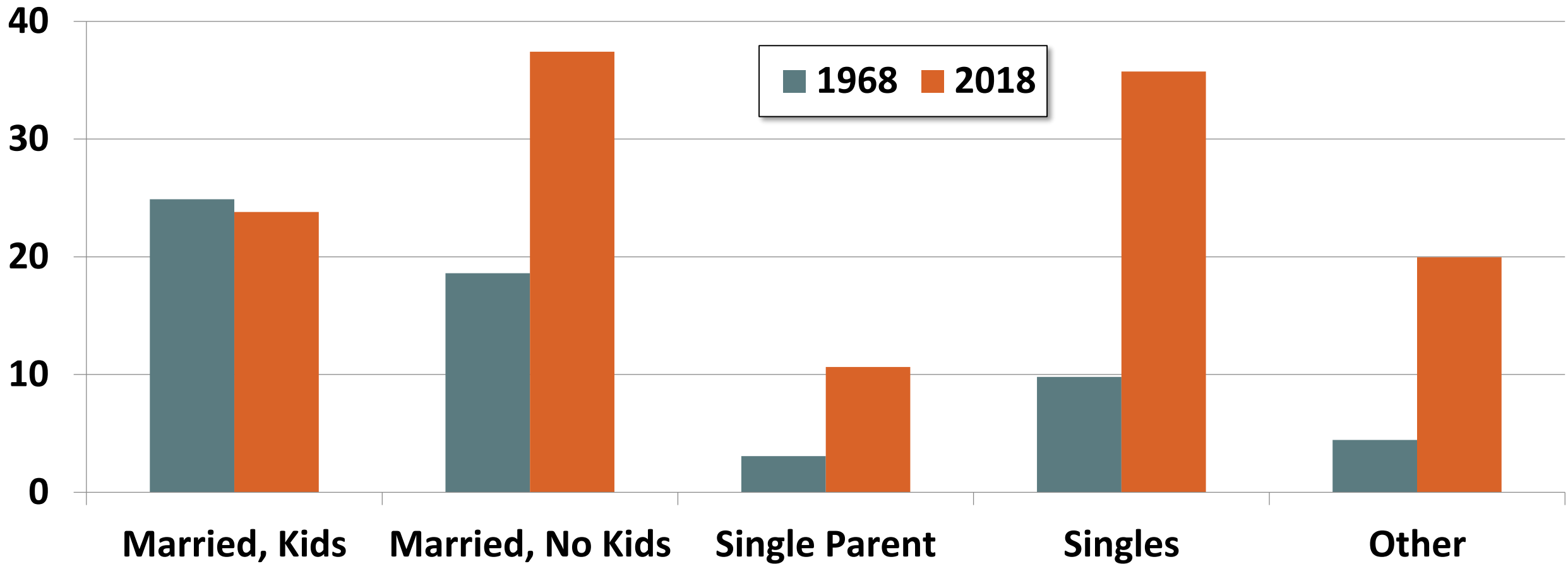


Nonfarm Payrolls Still Solid

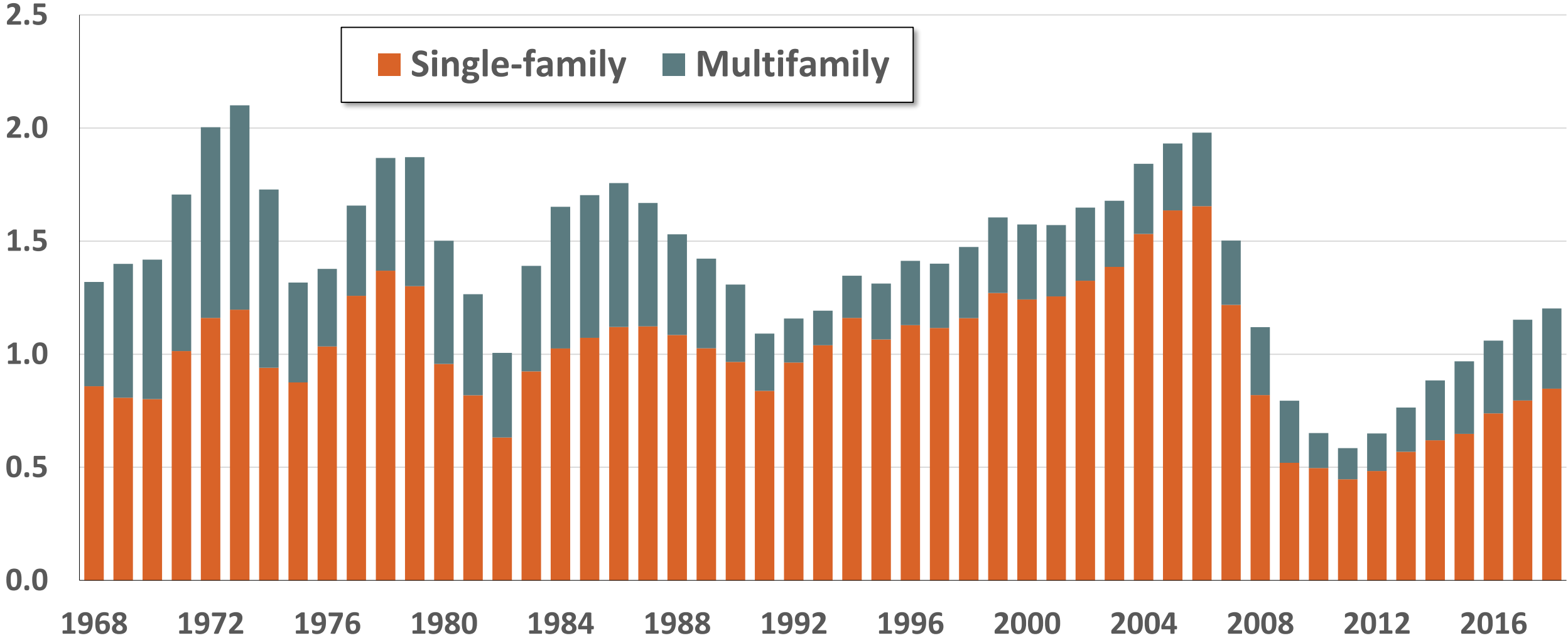
(3-month average, 000s)



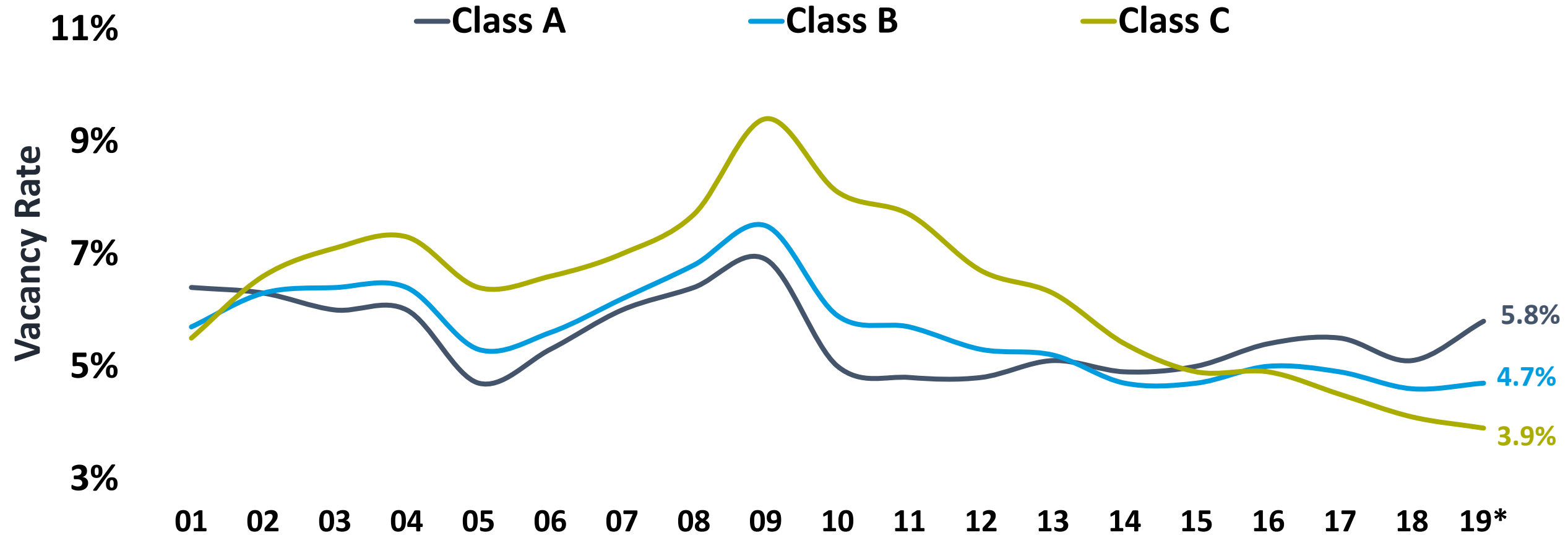
Seismic Shift In Household Composition, (millions)



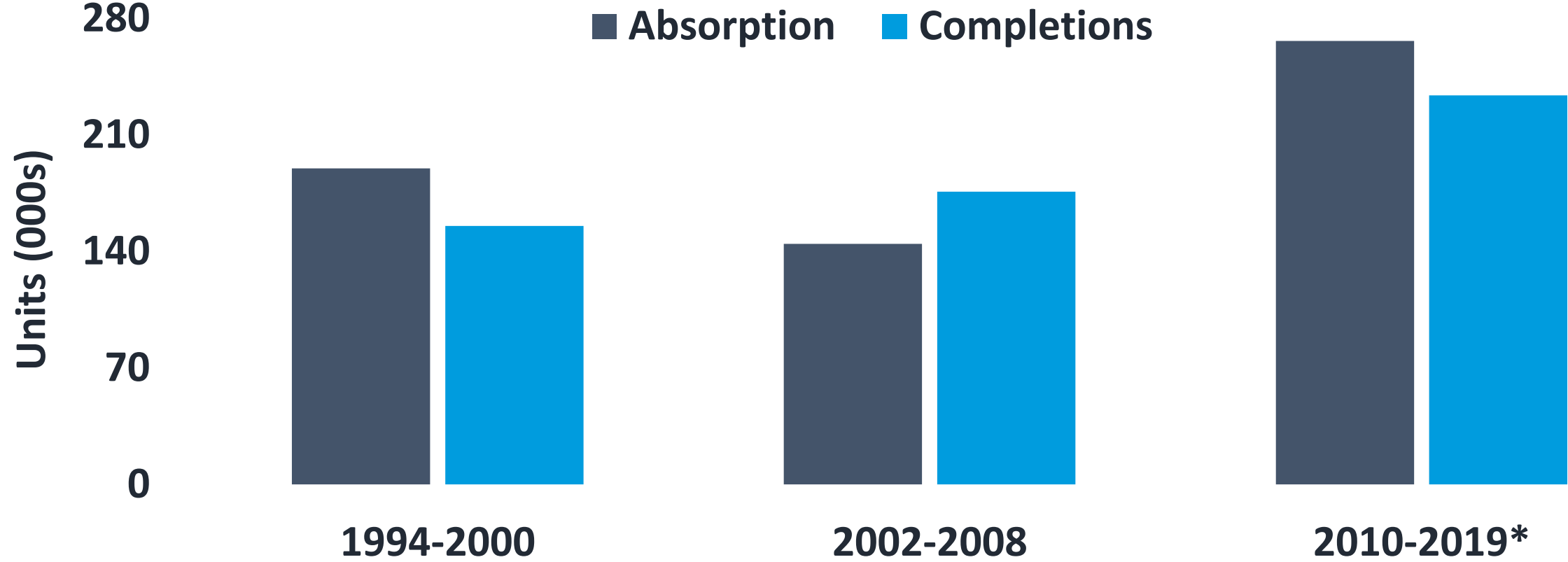
Housing Completions (millions)



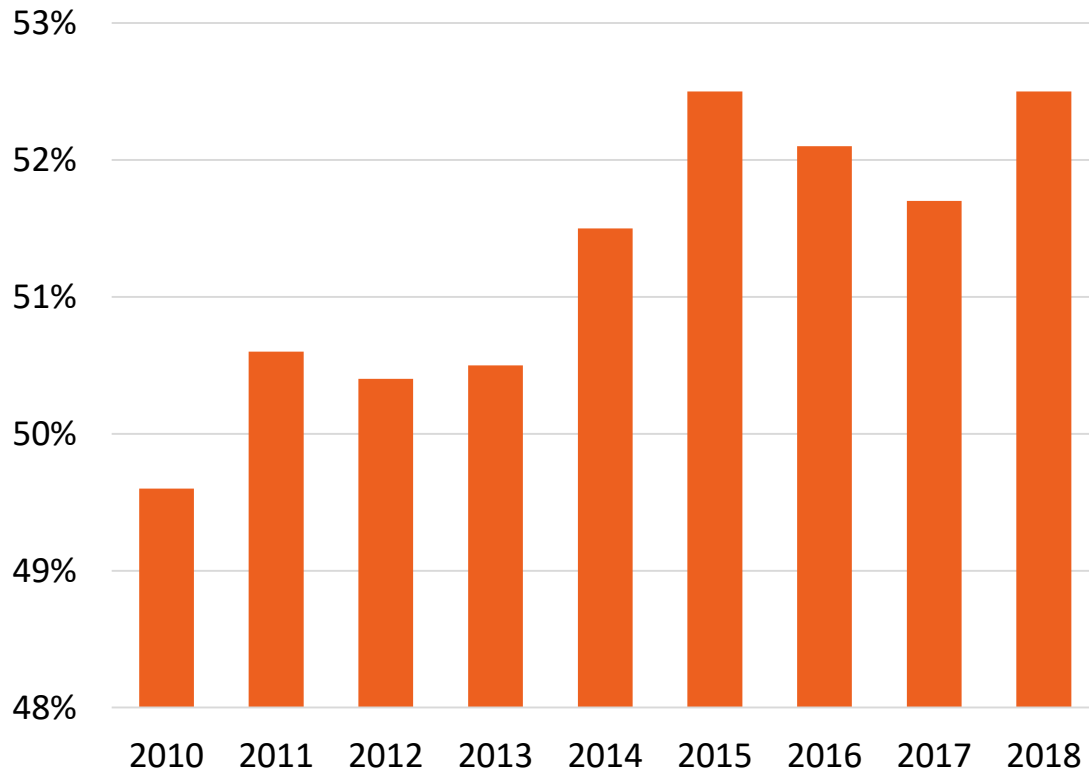
U.S. Apartment Vacancy by Class



Supply and Demand Trends by Cycle



Resident retention when initial leases expire is at an all-time high



Source: RealPage, Inc.

Retention is higher in Class C units (54%) than in the Class B (51%) or Class A (48%) stocks.

Metro-level retention leaders are Milwaukee, Newark-Jersey City, Providence, Miami and St. Louis.

Metro-level retention laggards are Salt Lake City, San Antonio, San Diego, Charlotte and Phoenix.



Rent growth has accelerated a little overall, notably in select markets

Neighborhoods heavy on Class B stock drove the overall upturn in the rent growth pace in almost every instance.

Metro	Rent Growth Momentum	2018 Rent Growth	2017 Rent Growth
Austin	490 bps	4.2%	-0.7%
Pittsburgh	390 bps	4.2%	0.3%
Phoenix	350 bps	7.4%	3.9%
West Palm Beach	330 bps	3.8%	0.5%
San Francisco	290 bps	4.3%	1.4%
Fort Lauderdale	280 bps	3.8%	1.0%
Memphis	260 bps	4.7%	2.1%
Nashville	230 bps	2.6%	0.3%
Raleigh-Durham	200 bps	3.8%	1.8%
Atlanta	190 bps	4.8%	2.9%

Source: RealPage, Inc.



National Apartment Rank by Metro 2019 Completions*

Top 10 Metros	2019 Completions*	Completions as % of Inv.
Dallas-Fort Worth	28,400	3.5%
New York	20,000	1.2%
Los Angeles	14,800	1.3%
Washington, D.C.	14,400	2.3%
Denver	14,100	4.8%
Bay Area	13,700	2.2%
Seattle-Tacoma	12,200	3.1%
South Florida	11,600	1.9%
Atlanta	10,700	2.1%
Phoenix	10,600	3.0%
U.S. Total	315,000	1.8%

Bottom 10 Metros	2019 Completions*	Completions as % of Inv.
Cincinnati	1,200	0.7%
St. Louis	1,400	0.9%
Cleveland	1,600	1.0%
Sacramento	1,800	1.2%
Detroit	2,000	0.7%
Baltimore	2,100	0.9%
Jacksonville	2,600	2.2%
Indianapolis	2,700	1.6%
Inland Empire	2,700	1.4%
Las Vegas	2,900	1.3%
U.S. Total	315,000	1.8%



National Apartment Rank by Metro 2019 Absorption*

Top 10 Metros	2019 Absorption*	Absorption as % of Inv.
Dallas-Fort Worth	23,500	2.9%
New York	19,600	1.2%
Denver	14,500	4.9%
Washington, D.C.	12,500	2.0%
Atlanta	12,200	2.4%
Bay Area	12,000	1.9%
South Florida	10,700	1.8%
Phoenix	9,400	2.7%
Seattle-Tacoma	9,200	2.3%
Northern New Jersey	8,900	2.6%
U.S. Total	283,000	1.6%

Bottom 10 Metros	2019 Absorption*	Absorption as % of Inv.
Detroit	1,100	3.8%
Sacramento	1,500	5.7%
St. Louis	1,500	2.5%
Cincinnati	1,800	3.1%
Cleveland	1,800	3.1%
Inland Empire	2,300	5.1%
San Diego	2,800	4.3%
Jacksonville	2,800	5.7%
Salt Lake City	3,000	4.9%
Baltimore	3,100	2.2%
U.S. Total	283,000	1.6%



Anticipated rent growth by market ranges from about 2% to about 6%

Expected Outperformers

Metro	2019 Forecast Rent Growth
Phoenix	5.4%
San Diego	4.2%
Tampa	4.0%
Atlanta	3.9%
San Francisco	3.7%
Miami	3.7%

Expected Average Performers

Metro	2019 Forecast Rent Growth
Charlotte	3.3%
Los Angeles	3.2%
Minneapolis	3.1%
Columbus	3.0%
Denver	2.9%
Detroit	2.9%

Expected Underperformers

Metro	2019 Forecast Rent Growth
New York	2.5%
San Antonio	2.5%
Washington, DC	2.5%
Dallas	2.2%
Chicago	2.0%
Seattle	1.9%

Class B properties should continue to lead the way in terms of pricing power.

Class C properties, while full, are losing pricing momentum in some metros due to affordability constraints.

Class A properties should lag other product sectors on rent growth.

Source: RealPage, Inc.

