

The Office of Economic Policy



HOUSING DASHBOARD

March 16, 2016

Recent housing market indicators suggest that housing activity continues to strengthen. Solid residential investment in 2015Q4 contributed 0.3 percentage point to GDP growth, and available indicators suggest that residential investment is on track to boost GDP growth by a similar amount in 2016Q1.

Meanwhile, home price appreciation has moderated—from a double-digit pace in late 2013 and early 2014 to a more sustainable mid-single-digit pace now. This moderation occurs as high home values, in some areas, challenge affordability for potential homebuyers. However, access to credit continues to slowly expand to reach borrowers with lower credit quality. In addition, home price valuations look to be somewhat elevated relative to pre-bubble norms.

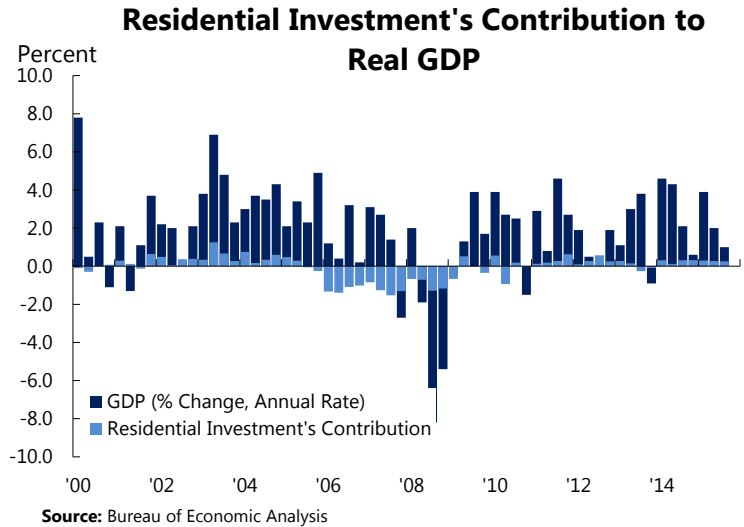
Although some mortgage borrowers continue to struggle in the wake of the crisis, delinquency and foreclosure rates are closing in on their pre-crisis ranges. The number of distressed sales also continues to drop.

Housing Market Flash

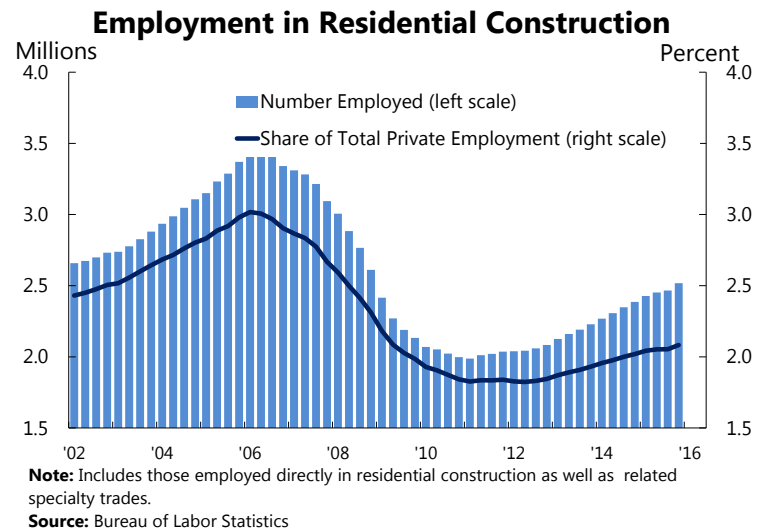
Wednesday, March 16, 2016

		Pre-bubble norm (2000-2002 average)	Trough	Current level	Current 12-month average versus year- earlier value	Current level versus pre- bubble norm (2000-2002 average)
Single-family homes						
Sales (thousands)	New	921	270 Feb-11	494 Jan-16	12.1% Improved	-46.4%
	Existing	4,779	3,060 Jul-10	4,860 Jan-16	7.2% Improved	1.7%
Inventory of homes available for sale (thousands)	New	311	142 Jul-12	238 Jan-16	17 thousands Improved	-73 thousands
	Existing	1,836	1,550 Dec-15	1,620 Jan-16	-39 thousands Weakened	-216 thousands
Construction activity (thousands)	Housing starts	1,289	353 Mar-09	822 Feb-16	12.0% Improved	-36.2%
	Building permits	1,257	337 Jan-09	731 Feb-16	8.4% Improved	-41.9%
Prices (index, Jan 2000 = 100)	CoreLogic HPI	115.7	137.3 Nov-11	187.2 Jan-16	5.1% Improved	61.7%
	Inflation-Adjusted CoreLogic HPI	111.6	101.9 Nov-11	136.7 Jan-16	6.3% Improved	22.5%
	Housing affordability (NAR, index=100 when median family income qualifies for 80% LTV mortgage on a median priced home)	127	101.1 Jul-06	171 Jan-16	-1.9% Weakened	35.1%
Sentiment						
Homebuilder (NAHB, over 50 means majority view conditions positively)	59	8 Jan-09	58 Mar-16	6 point(s) Improved	-1 point(s)	
Home-buying conditions (Reuters/Umich, index = good time - bad time + 100)	152	117 Oct-08	155 Feb-16	1 point(s) Improved	3 point(s)	
Demographics						
Household formation (thousands)	1113	100 2008-Q4	461 2015-Q4	290 thousands Improved	-653 thousands	
Homeownership rate (percent)	67.7	63.5 2015-Q2	63.7 2015-Q4	-0.8 percentage point(s) Weakened	-4 percentage point(s)	

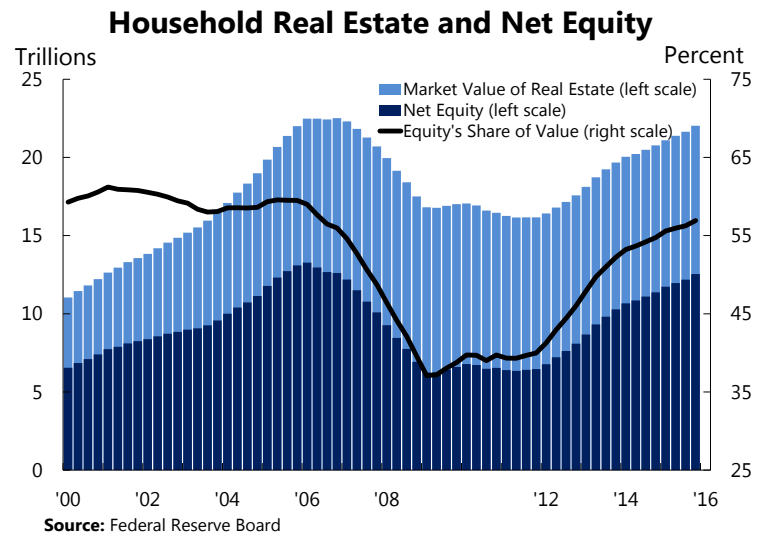
Residential investment continues to support GDP growth. Residential investment rose at an annual rate of 8 percent in 2015Q4, adding 0.3 percentage point to real GDP growth, matching the average contribution over the last four quarters. Data through February suggest that residential investment is on track to make a contribution at least that large in 2016Q1.



Employment in residential construction continues to recover. Over the past year, it has increased by 12,900 jobs per month, compared with 14,000 jobs per month in the year-earlier period. The level of employment remains relatively low: residential construction employment totaled just over 2.5 million workers in 2015Q4, accounting for roughly 2.1 percent of total private payroll employment, compared with around 2.6 percent in the early 2000s.

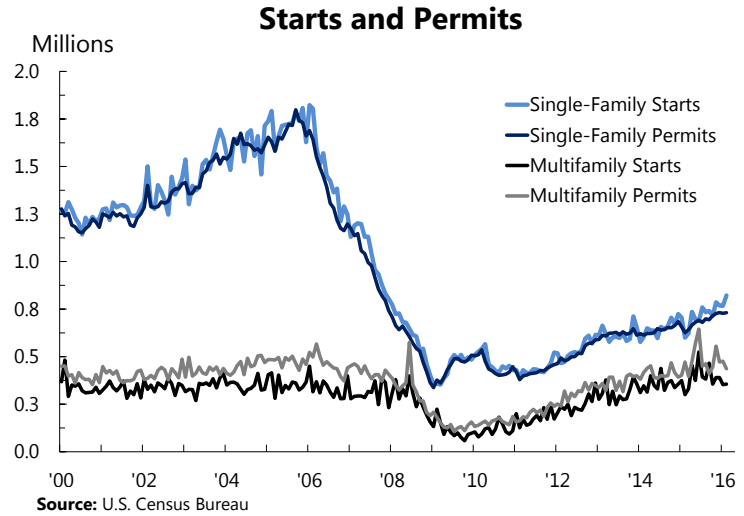


Housing wealth is nearing its earlier peak. The value of household real estate reached \$22.0 trillion in 2015Q4, up from a low of \$16.2 trillion in 2011Q4. The current level is close to its 2006Q4 peak, but the sustainable level is higher than in 2006 because of population-driven growth in the housing stock and overall inflation.



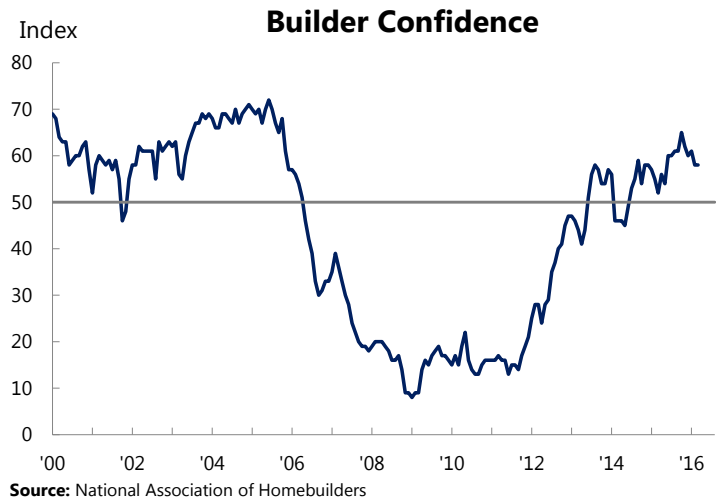
New residential construction activity continues on its gradual upward trajectory despite some recent volatility.

Single-family starts (light blue line) and permits (dark blue line) increased in February. In the multifamily sector, construction activity is back in the range seen before the crisis, but the rapid rise in rents suggests that construction activity is not yet fully meeting demand.



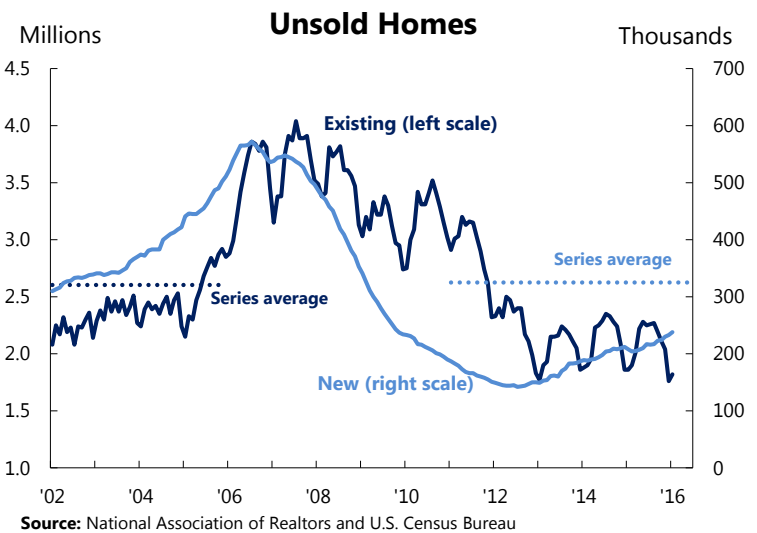
Builder confidence was unchanged in March but has declined from its 10-year high in October.

The National Association of Homebuilders index has recorded readings above 50 (meaning a majority of builders view the market positively) for the last 21 months. All three of the index's components—sales expectations over the next six months, current sales, and buyer traffic—are above their 2014 averages.



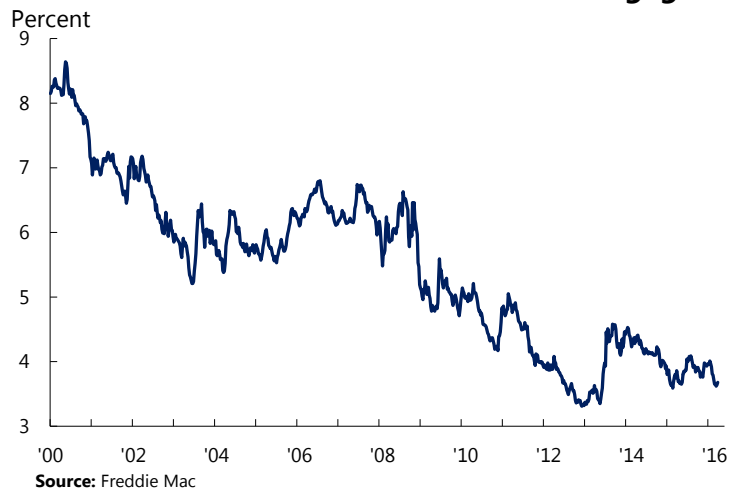
The inventory of homes for sale remains well below historical averages.

The stock of existing homes for sale (dark blue line) was at 1.82 million units at the end of January, up from 1.76 million in December, which was the lowest level since December 1999. The stock of new homes for sale (light blue line) was at 238,000. At the current sales pace, there is 4.0-month supply of existing homes available for sale; for new homes, the available inventory is equivalent to a 5.8-month supply.



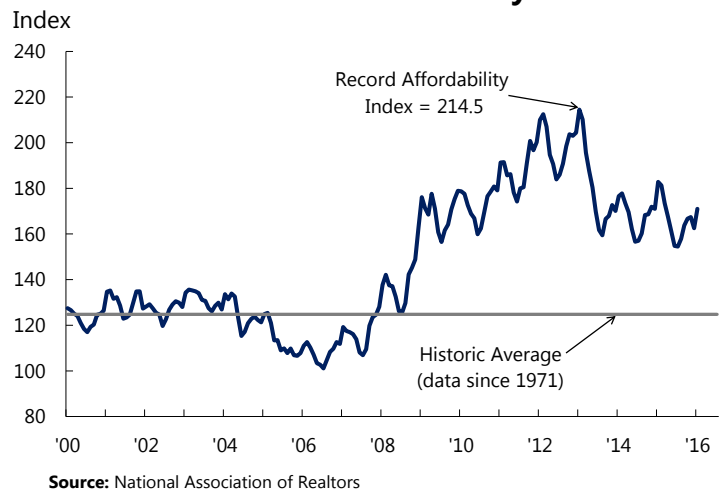
Mortgage interest rates remain very low by historical standards. The average interest rate on new 30-year fixed-rate conventional mortgages settled at 3.68 percent in the week ending March 10. The current rate is only 37 basis points higher than the lowest rate recorded in 2012.

Interest Rate of 30 Year Fixed-Rate Mortgages



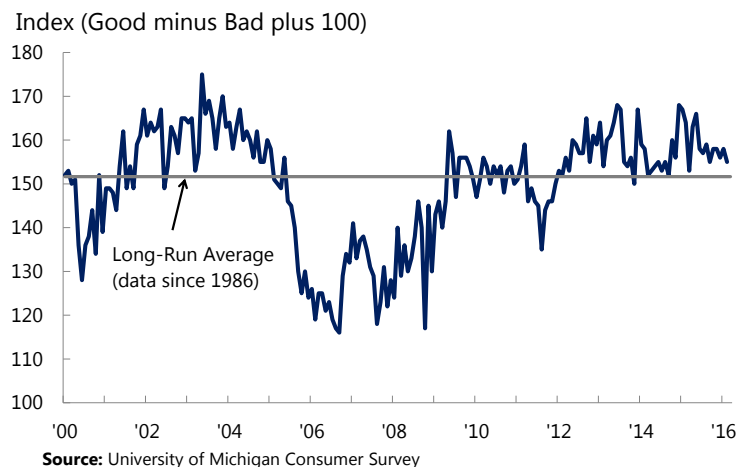
The National Association of Realtors Housing Affordability Index suggests that housing remains affordable for the typical family. The index rebounded to a ten-month high in January after declining for the first time in five months in December. Affordability has diminished considerably since 2013 as home prices have risen. (Note that the index assumes a 20 percent down payment; interest rates would be higher and affordability would be lower for a family that made a smaller down payment).

Home Affordability



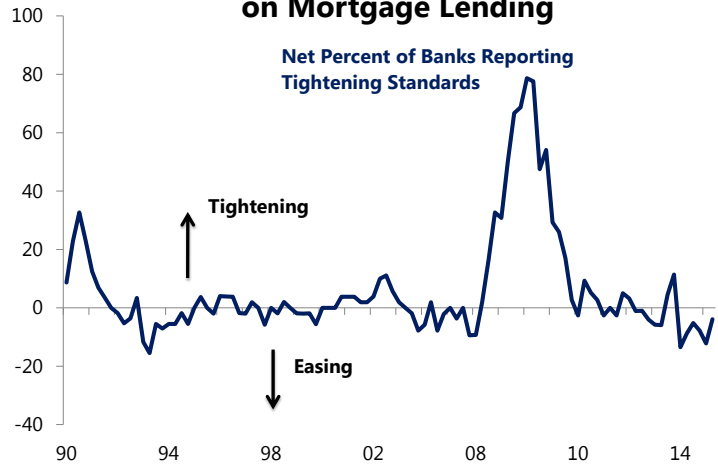
Households remain positive about home buying conditions. The University of Michigan Consumer Survey's "Good Time to Buy" Index remained higher than the long-term average in February. Low interest rates continue to be the main factor cited when respondents were asked why home-buying conditions are good.

Attitudes Towards Buying



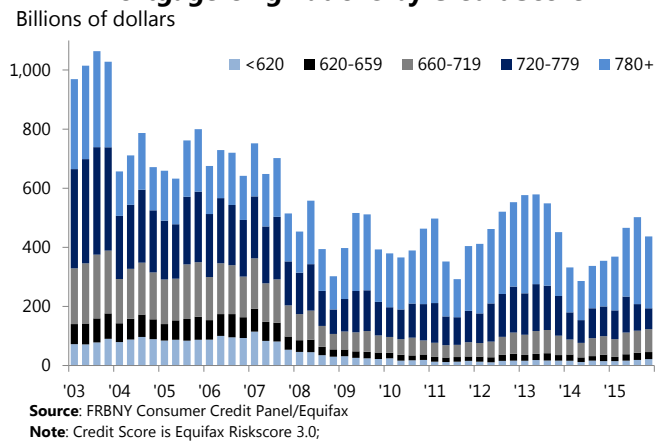
Senior loan officers at banks report easing of mortgage lending standards in recent quarters. The last six quarters mark the first period of sustained easing since the period of dramatic tightening during the financial crisis. (Note that the level of the line shown corresponds to the change in lending standards, with values below 0 representing an easing of lending standards and values above 0 representing a tightening).

FRB Senior Loan Officer Opinion Survey on Mortgage Lending



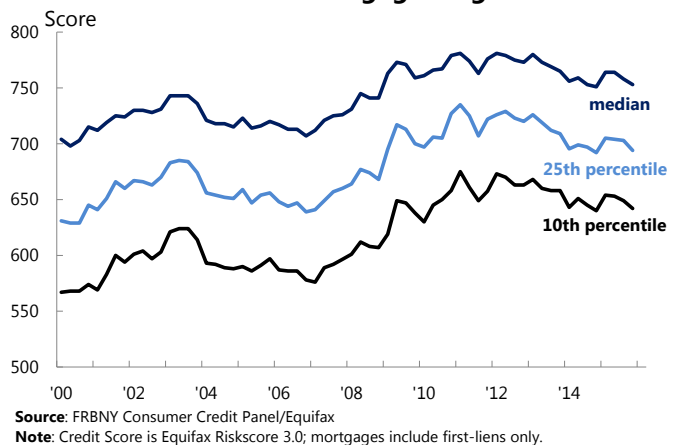
Despite the easing, lending is still restrained, and riskier borrowers continue to have very limited access to mortgage credit. Mortgage originations have risen, on net, over the past year, but the pick-up has been driven largely by borrowers with credit scores above 780. Originations by borrowers with credit scores below 780 are well below pre-crisis levels. Almost no mortgages are being extended to borrower with FICO scores below 660.

Mortgage Originations by Credit Score

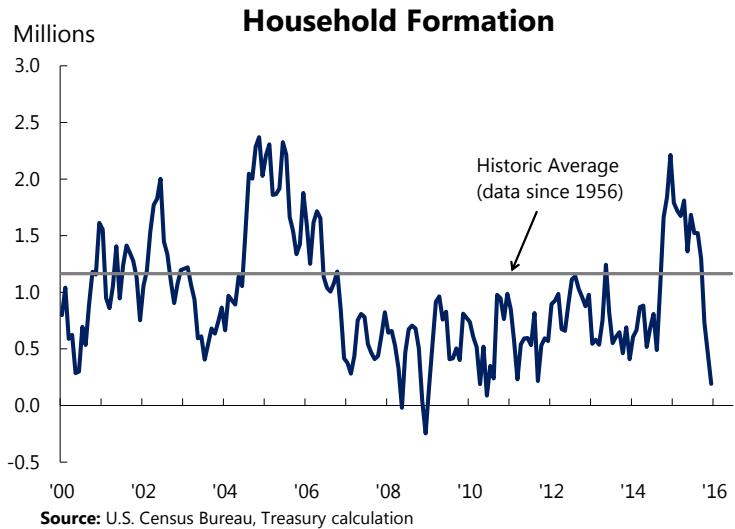


The median FICO score of newly originated mortgages has fallen slightly in recent quarters to around 750, but it is still up from roughly 700 in the early 2000s. At the 10th percentile, the FICO score for new mortgages was down to 642 by the end of 2015, compared with less than 600 in the early 2000s.

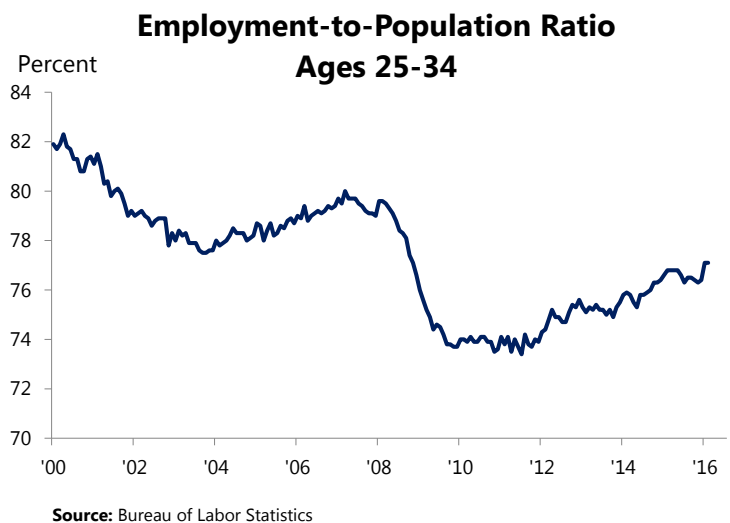
Credit Score at Mortgage Origination



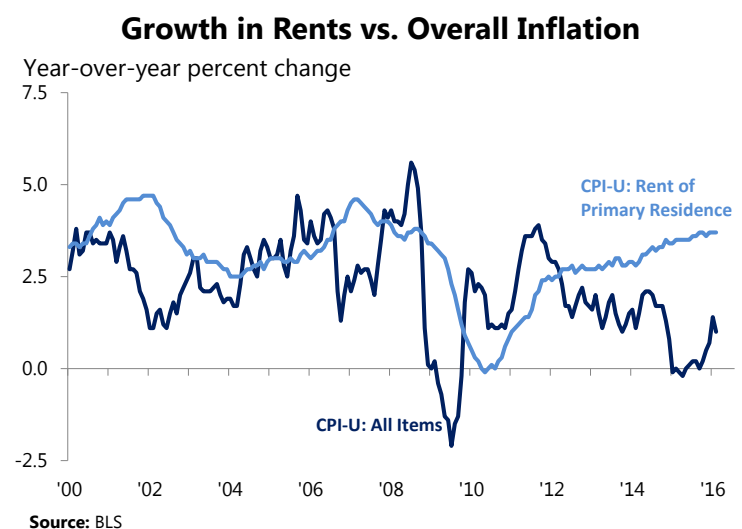
Household formation fell sharply in 2015Q4. In the year ending in December, just 191,000 households were formed. The explanation for the decline is unclear. Between mid-2006 and 2014Q3, the rate of household formation averaged roughly half its historical average of 1.2 million per year. Household formation surged at the end of 2014 and remained above its historical average through 2015Q3.



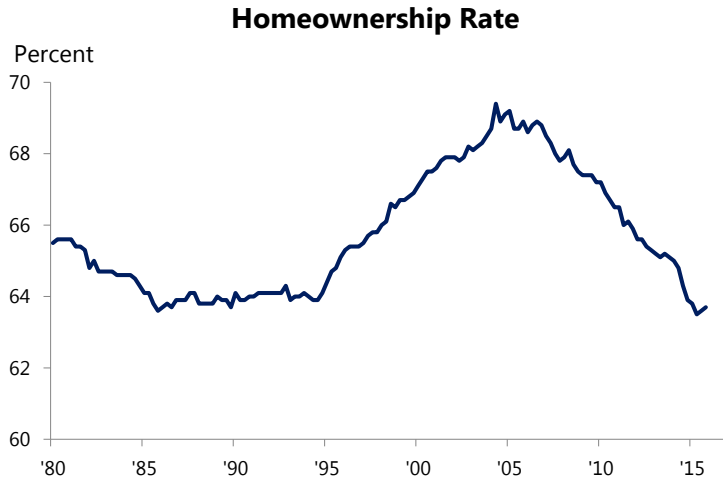
The proportion of young adults who are working has seen a partial recovery. The employment-to-population ratio for individuals ages 25-34 has reversed more than half of the decline that occurred during the recession. The strengthening labor market should support household formation going forward.



Higher rents are an obstacle to young adults establishing their own households. The supply of rental housing appears to have not risen as fast as demand and, as a result, rents have been increasing rapidly. They outpaced overall inflation by 2.7 percentage points over the year ending in February.

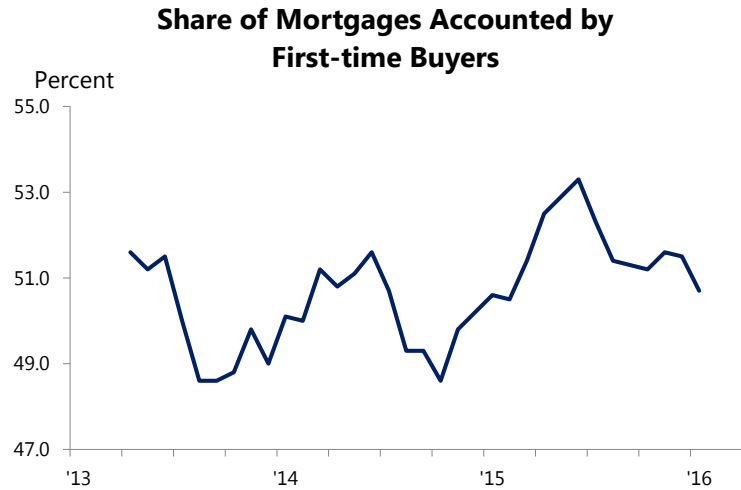


The homeownership rate edged up in 2015Q4. The homeownership rate was 63.7 percent in 2015Q4, up from a low of 63.5 percent in 2015Q2. The homeownership rate may stagnate in coming quarters as household formation continues to recover because newly formed households are more likely to rent before purchasing a home.



Source: U.S. Census Bureau

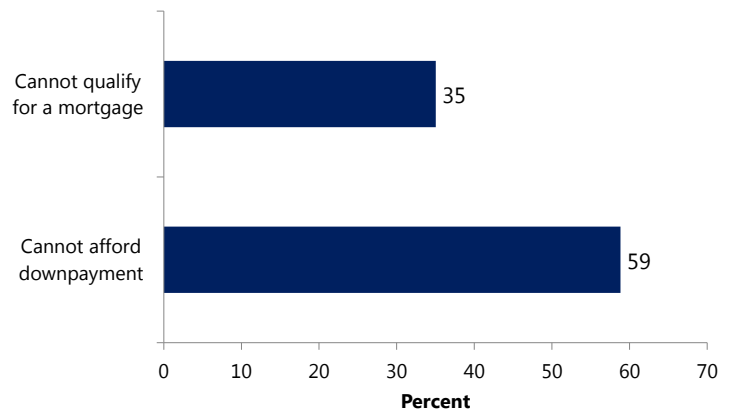
First-time home buyers account for around half of purchase mortgage originations. The share of newly originated mortgages going to first-time buyers was 50.7 percent in January, about the same as its year-earlier value.



Source: American Enterprise Institute

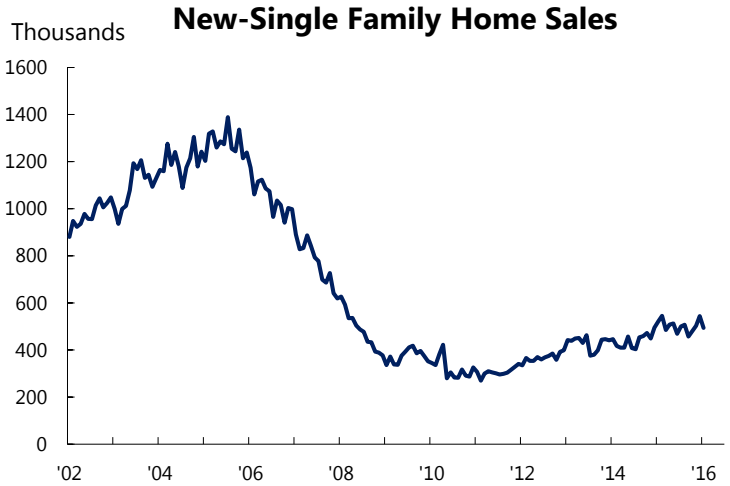
87 percent of households headed by young adults that are renting say that they would prefer to own if they could afford it. Of those households, the most commonly cited reasons for not owning are lack of downpayment (59 percent) and not being able to qualify for a mortgage to buy a home (35 percent).

Primary Reasons for Renting among Young Renters who Prefer to Own



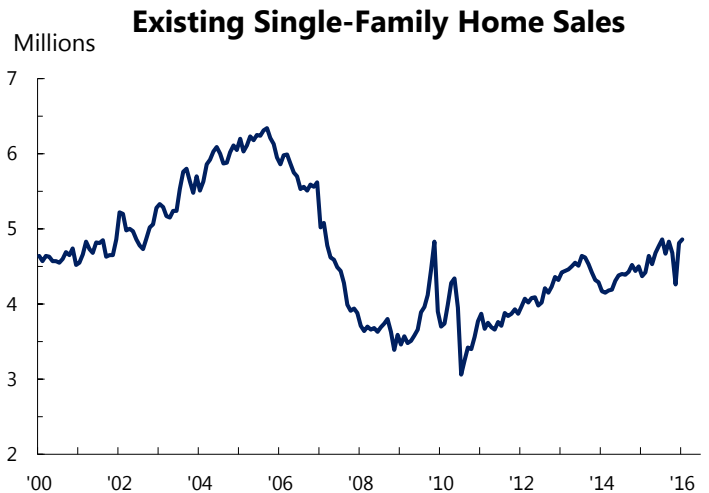
Source: Report on Economic Well-Being of U.S. Households in 2014, Federal Reserve Board

New single-family home sales dropped sharply in January. At an annual rate of 494,000 in January, they were 1.7 percent lower than their average level in 2015. New single-family home sales averaged 503,000 units for all of 2015, the best annual performance since 2007. Still, the current pace of sales is still only about half the level seen prior to the boom in the early 2000s.



Source: U.S. Census Bureau

Sales of existing single-family homes bounced back in December and January following declines in the previous two months, which were due in part to new mortgage disclosure requirements. The new requirements have reportedly increased the amount of time it takes to close on a sale. Existing single-family home sales averaged 4.63 million units in 2015, up 6.6 percent from 2014, and the highest annual total since 2006.



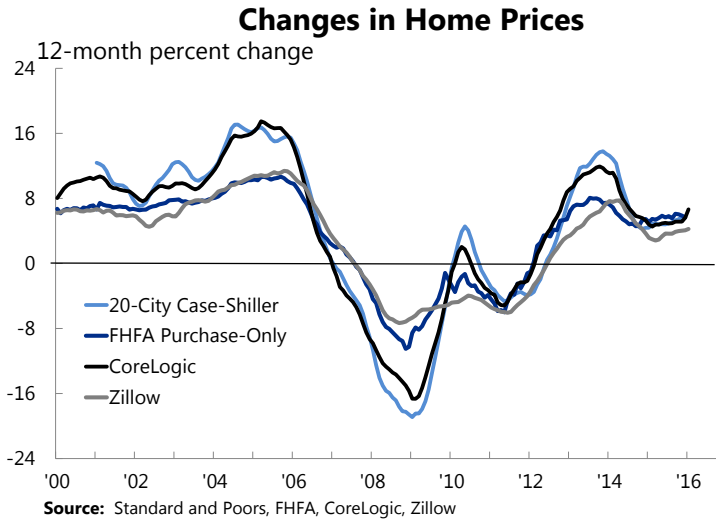
Source: National Association of Realtors

The National Association of Realtors index of pending sales of existing homes dropped in January but was slightly above its level of a year ago. The index is a leading indicator of existing home sales which are recorded at the closing of the sale. The National Association of Realtors is projecting that existing home sales will rise 2.5 percent in 2016.

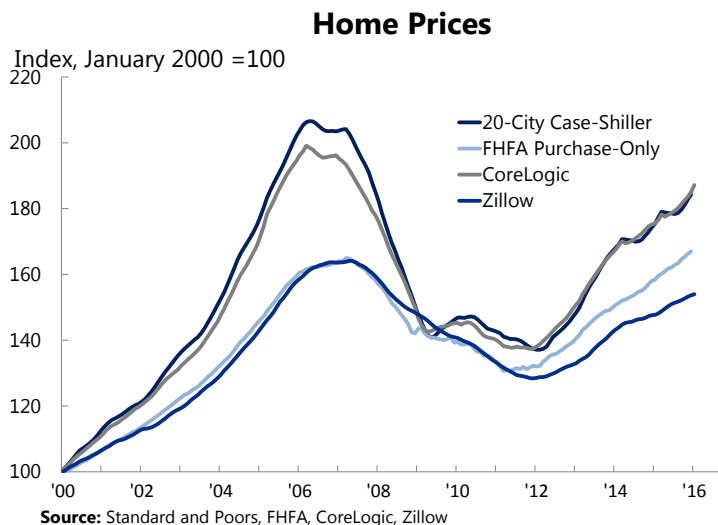


Source: National Association of Realtors, Treasury Calculation

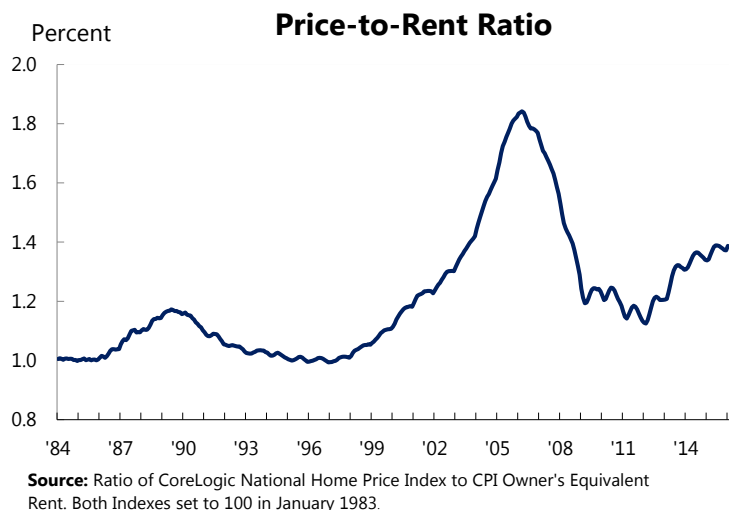
After rising at a high single-digit to low-double-digit pace in late 2013 and early 2014, the pace of home price appreciation has eased. Home prices are now growing at a more sustainable mid-single-digit pace.



Home prices remain below their pre-crisis peaks. Most measures for the nation as a whole are currently around early 2005 levels. The FHFA Purchase-Only Home Price Index is the only one that has surpassed its pre-recession peak. Forecasters generally believe that home price appreciation will remain moderate going forward. Participants in the 2016Q1 Pulsenomics/Zillow home price survey expect home prices to rise 3.7 percent over the four quarters of 2016.

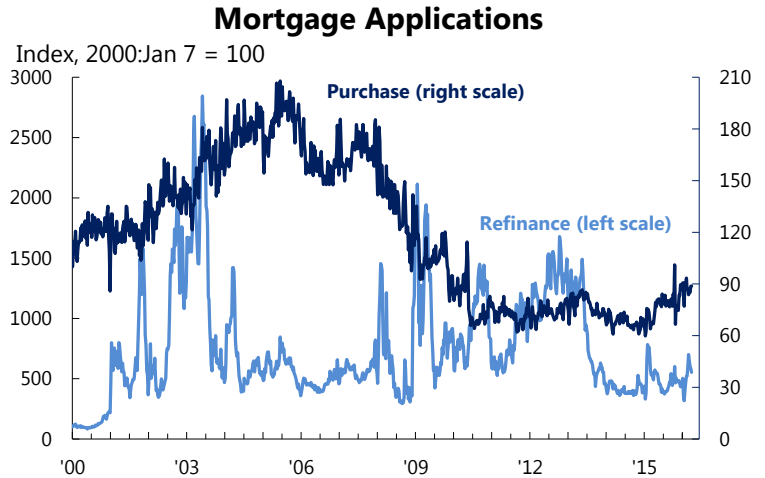


The ratio of home prices to rents, a common way to assess whether home prices are overvalued, remains well below its pre-crisis peak. That said, the substantial appreciation of home prices since late 2012 has pushed up this ratio, and it is now noticeably above its pre-crisis range.



Applications for home purchase mortgages have been volatile of late.

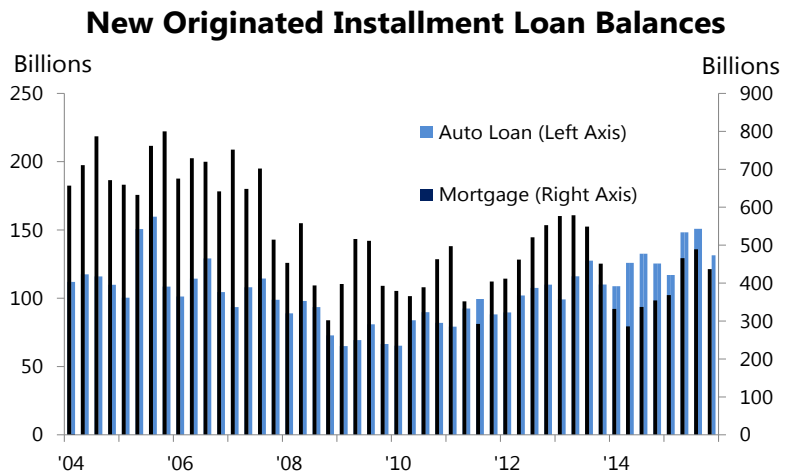
The Fed rate hike and new mortgage disclosure requirements may have caused fluctuations in recent months. Purchase applications remain well below pre-crisis levels. Refinancing activity has been very low since mid-2013 as most borrowers who have been able to refinance have already done so.



Source: Mortgage Bankers Association

New mortgage originations have increased over the past year but remain low by pre-crisis standards.

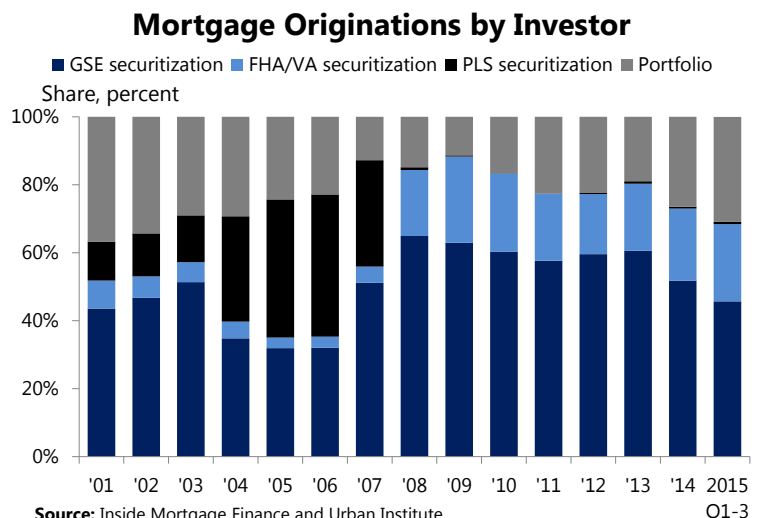
New mortgage originations rose to \$437 billion in 2015Q4, up from a low of \$354 billion in 2014Q4. The low level of mortgage originations stands in contrast to the pattern of some other forms of household credit, including auto loan originations, which have been increasing briskly along with sales and now stand near the top of their historical range.



Source: Federal Reserve Bank of New York

The share of new mortgage originations backed by the government has fallen since its 2009 high, but remains significantly higher than pre-crisis levels.

About 70 percent of new mortgages were backed by the FHA, VA, or GSEs in the first three quarters of 2015 (dark blue and light blue portions of bars). While bank portfolio lending has increased noticeably, the private-label mortgage-backed securities market has experienced essentially no recovery since collapsing in late 2007.

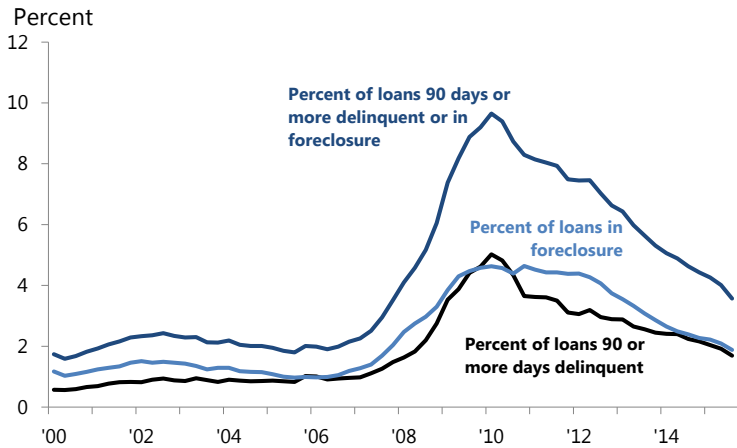


Source: Inside Mortgage Finance and Urban Institute

Mortgage foreclosure and delinquency rates continue to normalize.

The share of homes in foreclosure declined to 1.6 percent of outstanding loans in 2015Q4. The rate of mortgages in default (90+ days delinquent or in foreclosure) fell to 3.4 percent in 2015Q4, compared with a pre-crisis average of around 2 percent.

Foreclosure and Delinquency Rates

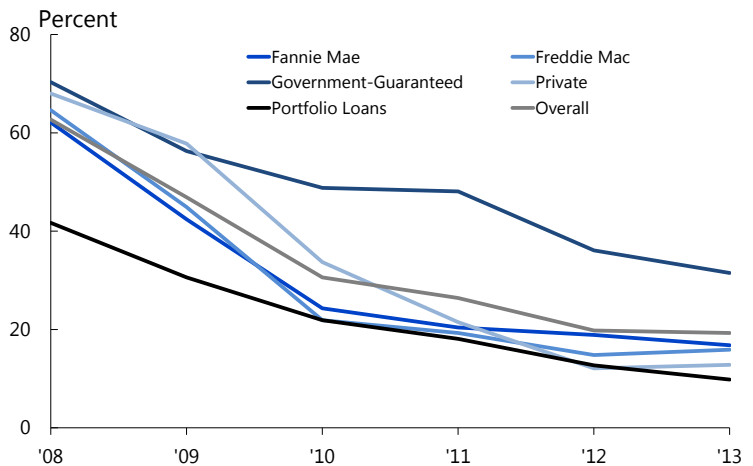


Source: Mortgage Bankers Association and Haver Analytics

Re-default rates for borrowers who have received a mortgage modification have run significantly lower for mortgages that were modified more recently.

Mortgages that were modified in 2013 (24 months ago) had re-default rates that were between 32 and 55 percentage points lower than those modified in 2008.

Re-Default Rate 24 Months after Modification

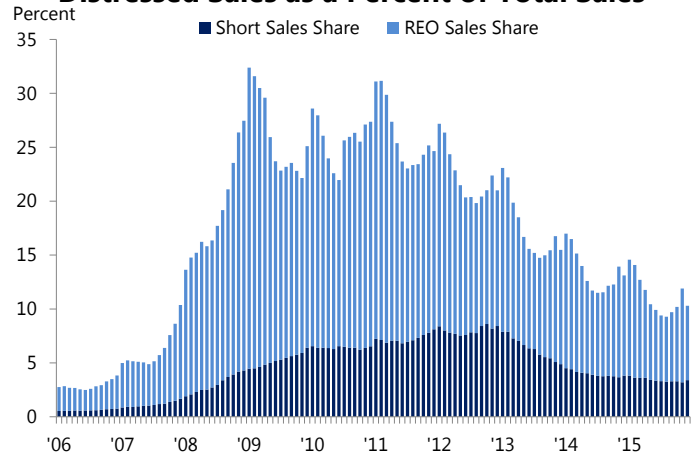


Source: OCC Mortgage Metrics Report for Q1-2015

The share of sales represented by REO sales has trended down over the past 3 years.

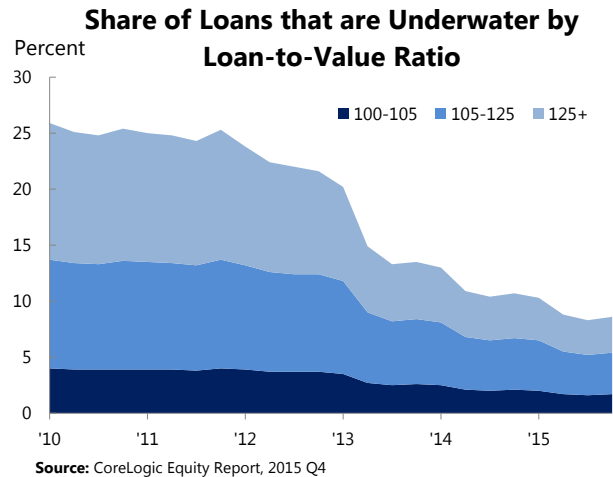
In December 2015, REO sales fell to about 7 percent of total sales. The share associated with short sales has been moving sideways at around 3 percent in recent quarters.

Distressed Sales as a Percent of Total Sales

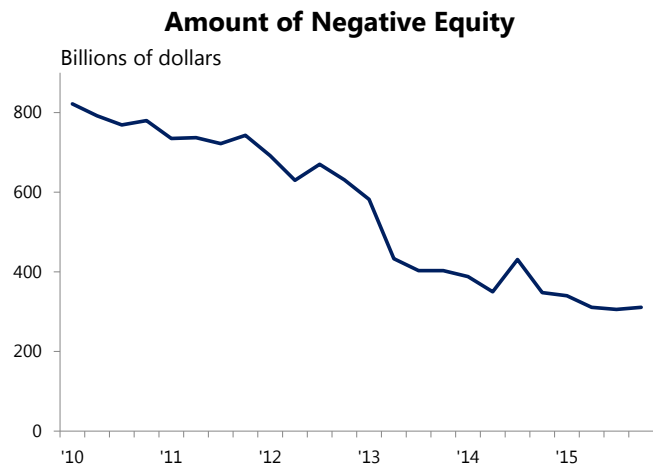


Source: CoreLogic

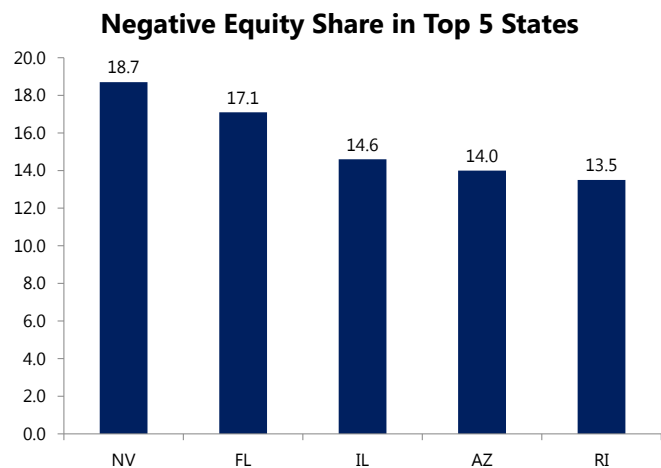
Rising home prices have greatly reduced the number of underwater borrowers. The share of mortgage loans with negative equity was 8.6 percent in 2015Q4, down from 10.3 percent in 2015Q1. The number of homes now underwater stands at 4.3 million, a 64 percent drop since the 2011 peak. Mortgages that are very underwater, with negative equity exceeding 25 percent, have declined and are now 37 percent of all underwater mortgages.



The aggregate amount of negative equity continues to fall. Since 2010Q1, aggregate negative equity has fallen from over \$800 billion to around \$300 billion in 2015Q4.



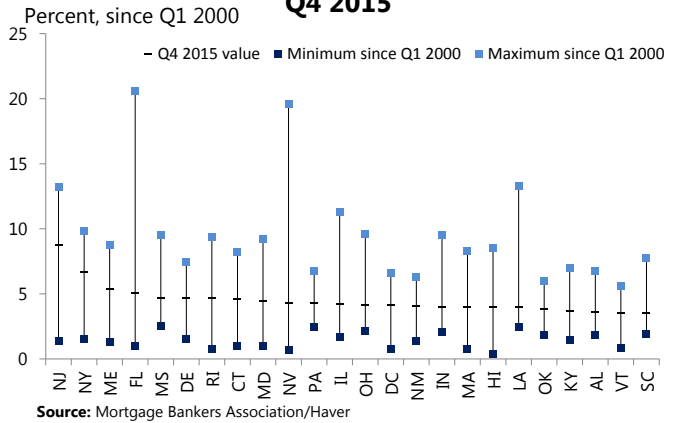
Negative equity rates are still very high in some states. Around 20 percent of mortgaged residential properties in Nevada and Florida still have negative equity. However, these rates have fallen by more than half in these two states since the beginning of 2013.



Serious delinquencies have fallen across the country but the degree of improvement varies by state.

They remain near peak levels in some states, particularly in judicial foreclosure states such as New Jersey and New York. However, serious delinquencies are down nearly 75 percent from their peak in Florida, a judicial state that passed a law in June 2013 speeding up the foreclosure process. Serious delinquencies have also fallen markedly in hard-hit areas with flexible foreclosure laws, such as Nevada.

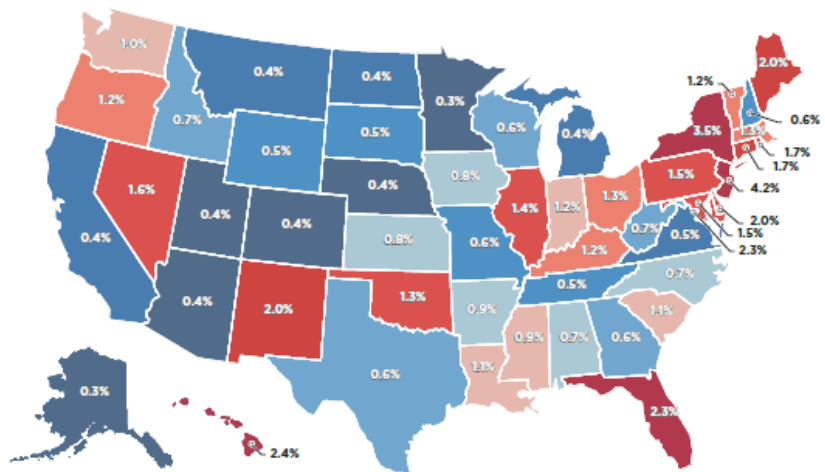
Serious Delinquencies for 25 Highest-Rate States: Q4 2015



Foreclosure inventories have declined in many states but remain relatively high in others.

Judicial foreclosure is an important factor: 12 of 23 states that employ the practice have noticeably elevated rates (darker red). Other states with high inventories, like Nevada, are still struggling economically.

Foreclosure Inventories by State as a Percent of All Mortgage Homes



Source: CoreLogic Market Pulse, data as of December 2015



