



HOUSING FINANCE AT A GLANCE

A MONTHLY CHARTBOOK

December 2016

ABOUT THE CHARTBOOK

The Housing Finance Policy Center's (HFPC) mission is to produce analyses and ideas that promote sound public policy, efficient markets, and access to economic opportunity in the area of housing finance. *At A Glance*, a monthly chartbook and data source for policymakers, academics, journalists, and others interested in the government's role in mortgage markets, is at the heart of this mission.

We welcome feedback from our readers on how we can make *At A Glance* a more useful publication. Please email any comments or questions to ataglance@urban.org.

To receive regular updates from the Housing Finance Policy Center, please visit [here](#) to sign up for our bi-weekly newsletter.

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INTRODUCTION

Election Results and the Mortgage Market

The election results brought a flurry of questions about how President-elect Trump would impact housing policy. We opined in a [blog](#) that a business perspective could be useful in helping to tackle two of the biggest issues confronting the housing market today: Tight credit and an inadequate supply of housing. When it was announced that Ben Carson would be the nominee for the Secretary of Housing and Urban Development, we also [suggested](#) specific immediate steps he could take to improve lending through the FHA.

But the election's biggest impact on the mortgage market to date has been the advent of sharply [higher interest rates](#)—mortgage rates were at 3.54 percent immediately before the election and were at 4.16 percent as of 12/15/2016. These higher rates will cut refinancing activity dramatically (over the course of 2016, 55 percent of GSE volume and 38 percent of Ginnie Mae's volume were refinances, page 11), slashing mortgage originations and making mortgage banking less profitable. In addition, some borrowers who were pondering a move will decide to stay in their homes to keep their current low mortgage rates, rather than pay the sharply higher interest rates that will now be required to move to a new home. The combination of reduced refinancing, the decline in trade-up activity and the continuing decline in geographic mobility will all cause homeowners to hold onto their mortgages longer, turning mortgage-backed securities into longer duration instruments. These longer duration instruments, in turn, will need to be absorbed by the market, which is the equivalent of issuing more bonds, which could push interest rates even higher.

Higher interest rates, a stronger economy and higher inflation are also apt to put upward pressure on home prices and should result in a continued improvement in mortgage performance (see pages 19 and 25 to see the huge decline in delinquencies and foreclosures since the peak).

The effect of loan limit increases

On November 23rd, the Federal Housing Finance Agency [announced](#) its first increase to the conforming loan limit for Fannie Mae and Freddie Mac for the first time in a decade. The hike will raise the base conforming loan limit for the GSEs by \$7,100, from \$417,000 to \$424,100, or 1.7 percent. In high cost areas – defined as those where 115 percent of the median home price exceeds the baseline loan limit – the loan limit will increase by \$10,650, from \$625,500 to \$636,150, also a 1.7 percent rise.

FHFA's increase will affect more than just Fannie Mae and Freddie Mac's loan purchases because other key providers of mortgage credit, most notably the FHA and VA, have in some way indexed their loan limits to the GSE's conforming limit. For instance, FHA's base limit (called the "floor") is, by law, set at 65 percent of the base conforming limit, while FHA's high-cost area limit (called the "cap") is set at 150 percent of the conforming limit. Indeed, subsequent to FHFA's announcement, the HUD on December 1st [announced](#) its own increases to FHA's loan limits. Similarly, VA loan limits are tied to the conforming limits and are also set to increase in 2017. Even so, we expect this small increase to have only a marginally positive effect on origination volumes, and will be more than outweighed by higher rates.

INSIDE THIS ISSUE

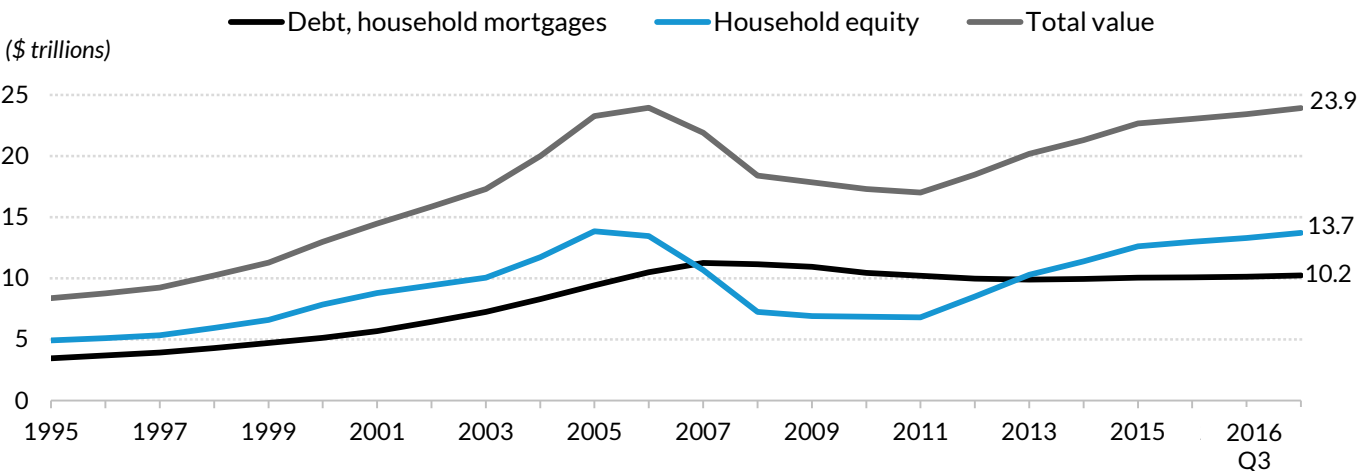
- The total value of the US Housing Market continued to rise in Q3 2016, driven by a \$407 billion increase in household equity (Page 6)
- Refinance accounted for 55 percent of GSE issuance and 38 percent of Ginnie Mae's 2016 issuance (through November), this is expected to drop with the rate hike (Page 11)
- Refinance share projections went down considerably in response to rising interest rates (Page 12)
- Originator profitability measure fell in November as rates went up (Page 13)
- The share of loans in negative equity declined YOY to 6.3 percent in Q3 2016 (Page 19)

OVERVIEW

MARKET SIZE OVERVIEW

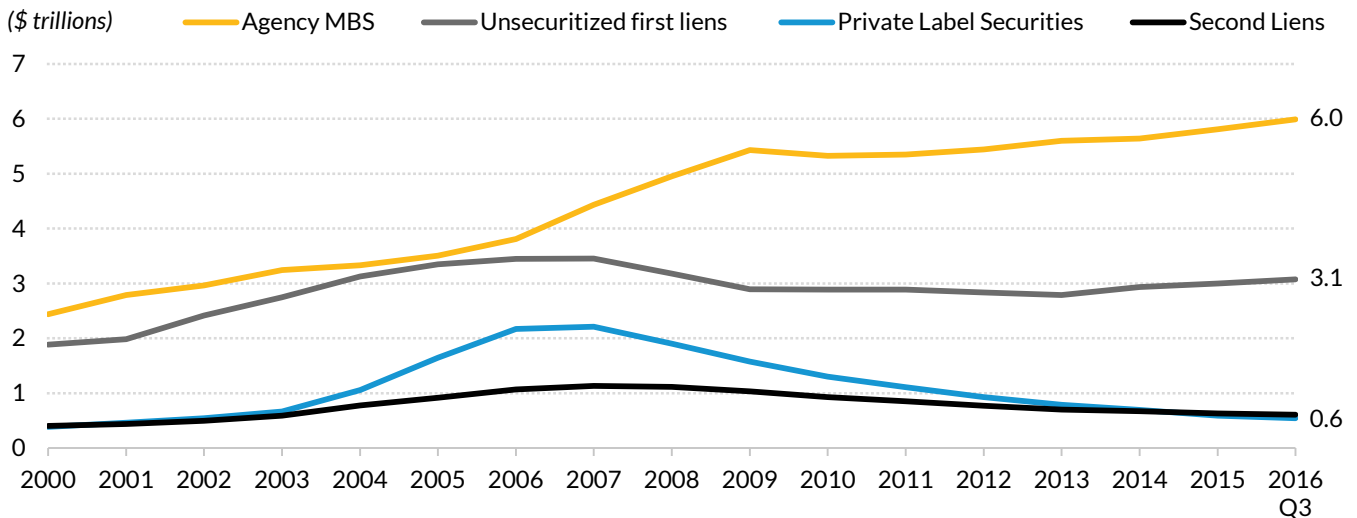
The Federal Reserve's Flow of Funds report has consistently indicated an increasing total value of the housing market driven by growing household equity since 2012, and the trend continued according to the latest data, covering Q3 2016. Total debt and mortgages increased to \$10.2 trillion, and household equity increased to \$13.7 trillion, bringing the total value of the housing market up slightly to \$23.9 trillion. Agency MBS make up 58.2 percent of the total mortgage market, private-label securities make up 5.8 percent, and unsecuritized first liens at the GSEs, commercial banks, savings institutions, and credit unions make up 29.8 percent. Second liens comprise the remaining 6.2 percent of the total.

Value of the US Housing Market



Sources: Federal Reserve Flow of Funds and Urban Institute.

Size of the US Residential Mortgage Market



Sources: Federal Reserve Flow of Funds, Inside Mortgage Finance, Fannie Mae, Freddie Mac, eMBS and Urban Institute.

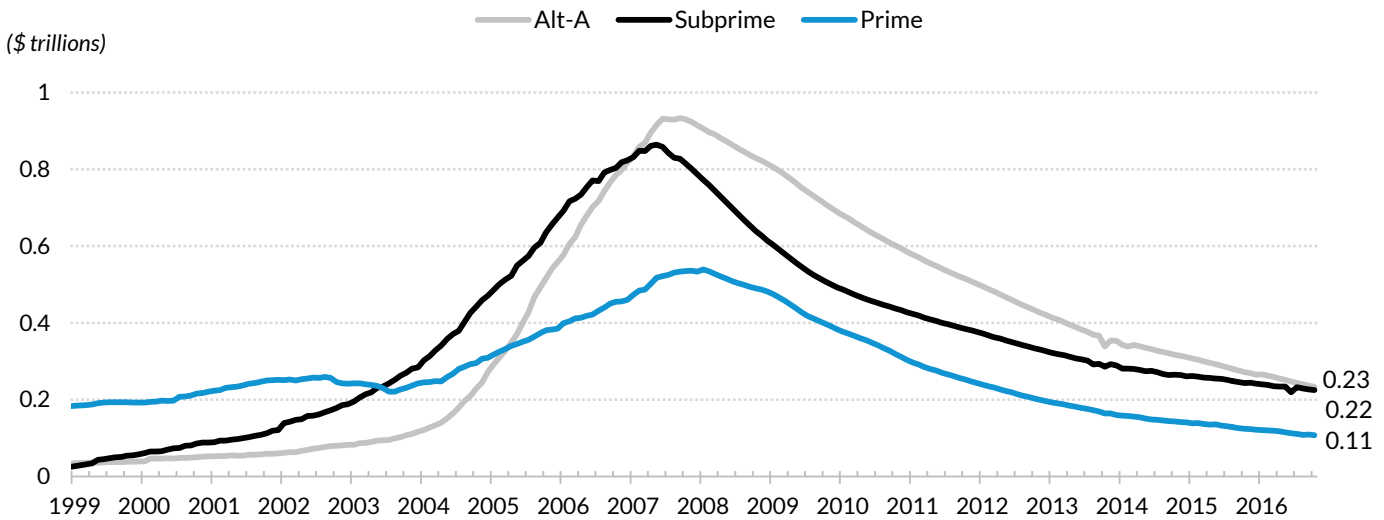
Note: Unsecuritized first liens includes loans held by commercial banks, GSEs, savings institutions, and credit unions.

OVERVIEW

MARKET SIZE OVERVIEW

As of October 2016, debt in the private-label securitization market totaled \$565 billion and was split among prime (19.0 percent), Alt-A (41.2 percent), and subprime (39.8 percent) loans. In November 2016, outstanding securities in the agency market totaled \$6.03 trillion and were 44.3 percent Fannie Mae, 27.6 percent Freddie Mac, and 28.1 percent Ginnie Mae. Beginning in May, 2016, Ginnie Mae has had more outstanding securities than Freddie Mac.

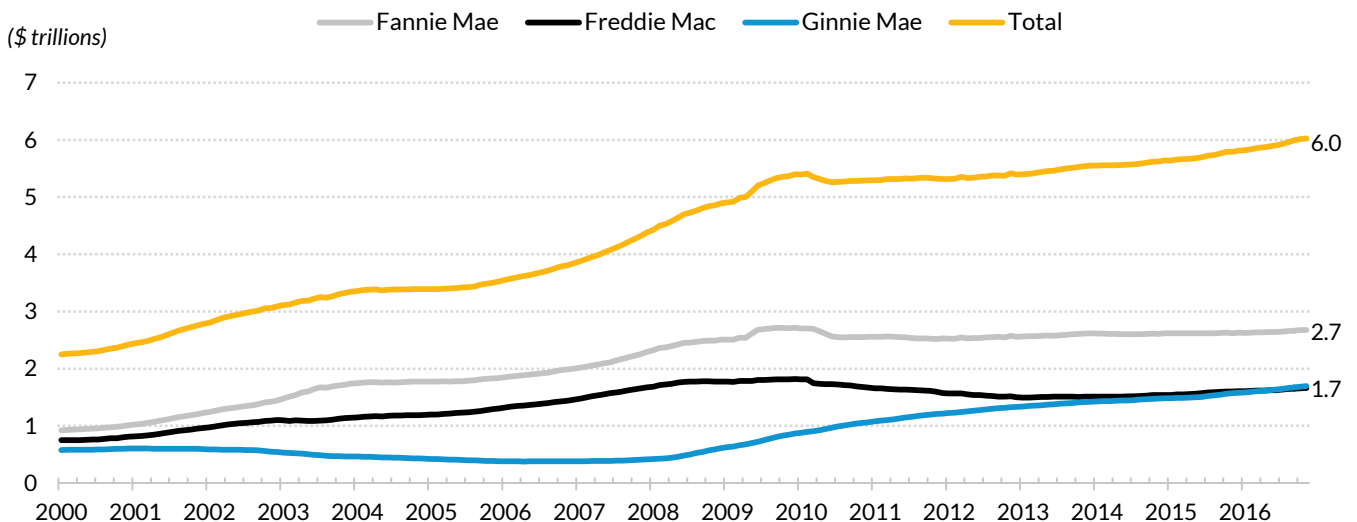
Private-Label Securities by Product Type



Sources: CoreLogic and Urban Institute.

October 2016

Agency Mortgage-Backed Securities



Sources: eMBS and Urban Institute.

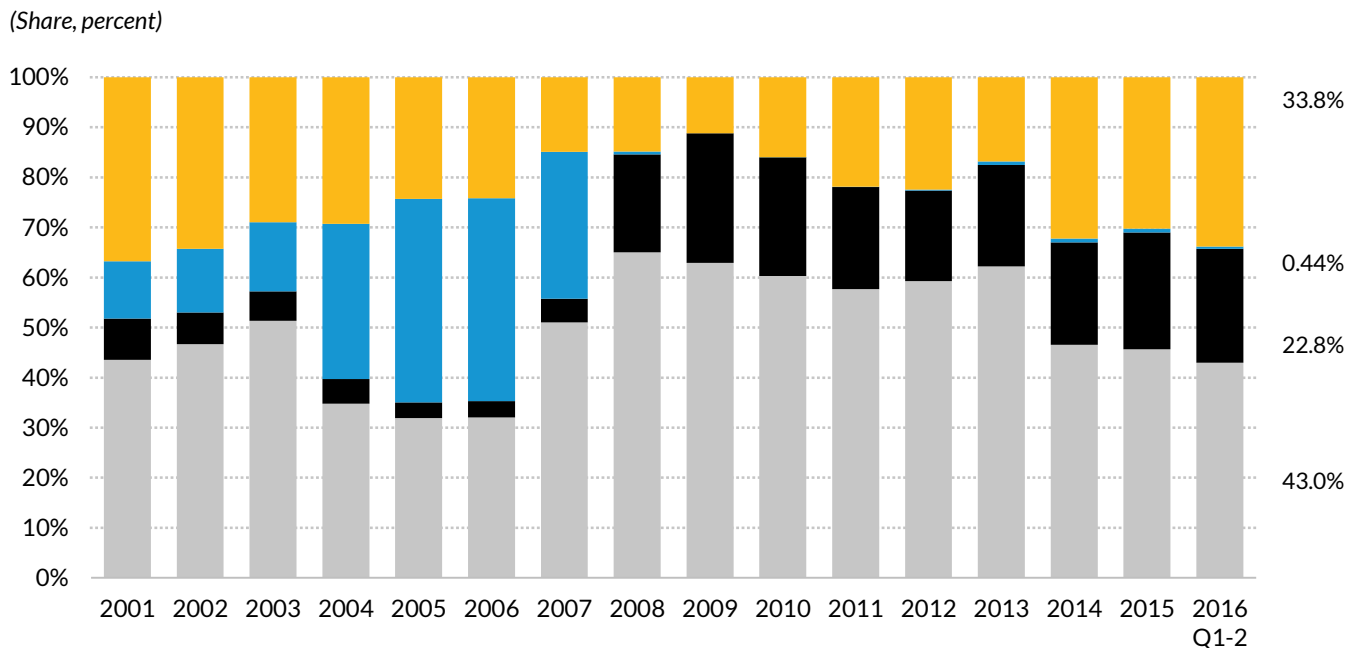
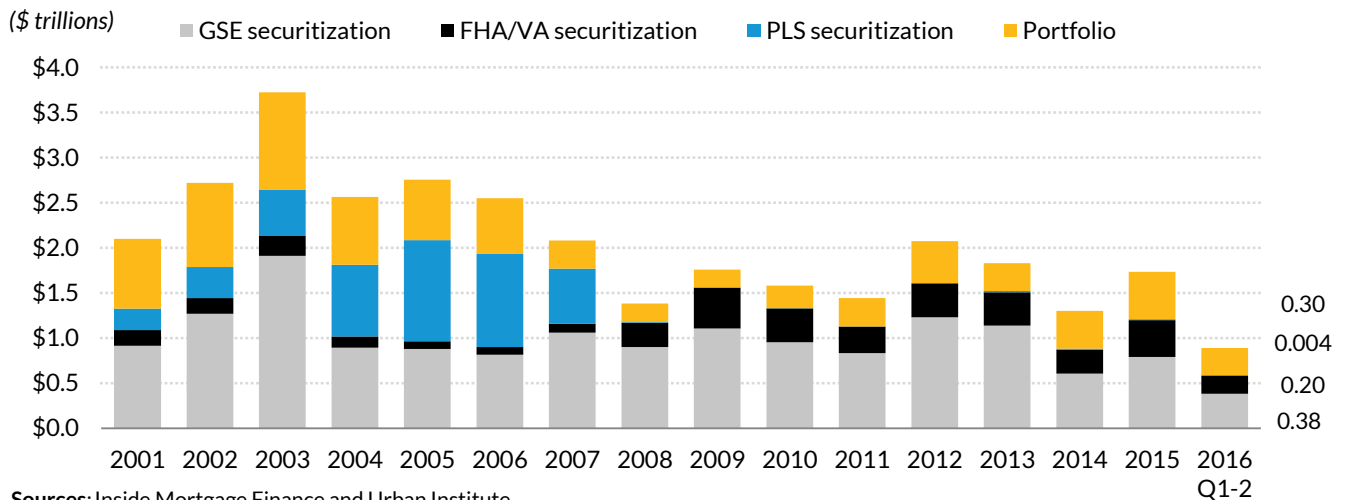
November 2016

OVERVIEW

ORIGINATION VOLUME AND COMPOSITION

First Lien Origination Volume

First lien originations in the first two quarters of 2016 totaled approximately \$890 billion. The share of portfolio originations was 33.8 percent, while the GSE share dropped to 43 percent from 47 in 2014, reflecting a small loss of market share to FHA due to the FHA premium cut. FHA/VA originations account for another 23 percent, and the private label originations account for 0.4 percent.

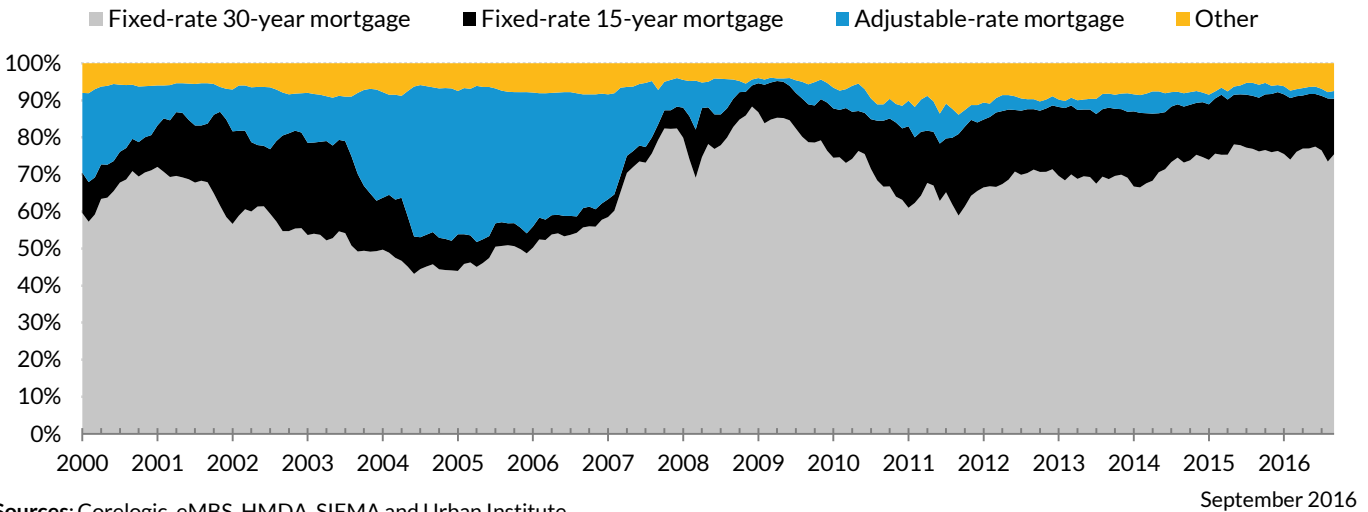


OVERVIEW

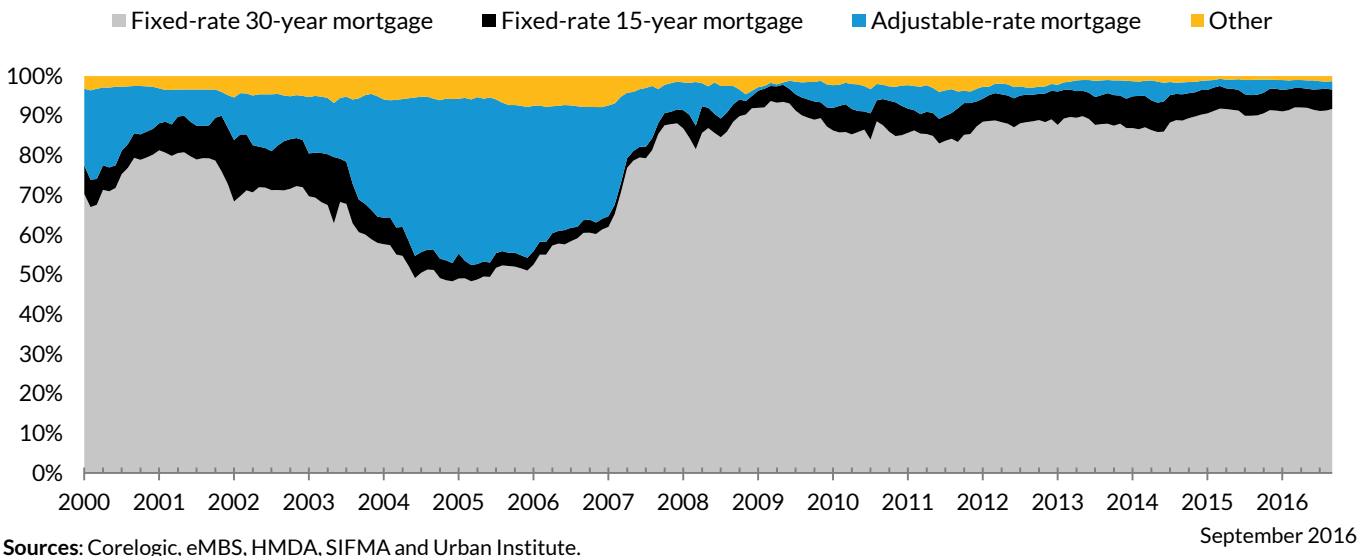
MORTGAGE ORIGINATION PRODUCT TYPE

Adjustable-rate mortgages (ARMs) accounted for as much as 42 percent of all new originations during the peak of the recent housing bubble in 2005 (top chart). They fell to a historic low of 1 percent in 2009, and then slowly grew to a high of 6 percent in April 2014. Since then they began to decline again to 2.1 percent of total originations in September 2016. 15-year fixed-rate mortgages (FRMs), predominantly a refinance product, comprise 15 percent of new originations. If we exclude refinances (bottom chart), the share of 30-year FRMs in August 2016 stood at 91.8 percent, 15-year FRMs at 4.9 percent, and ARMs at 2.1 percent.

All Originations



Purchase Loans Only

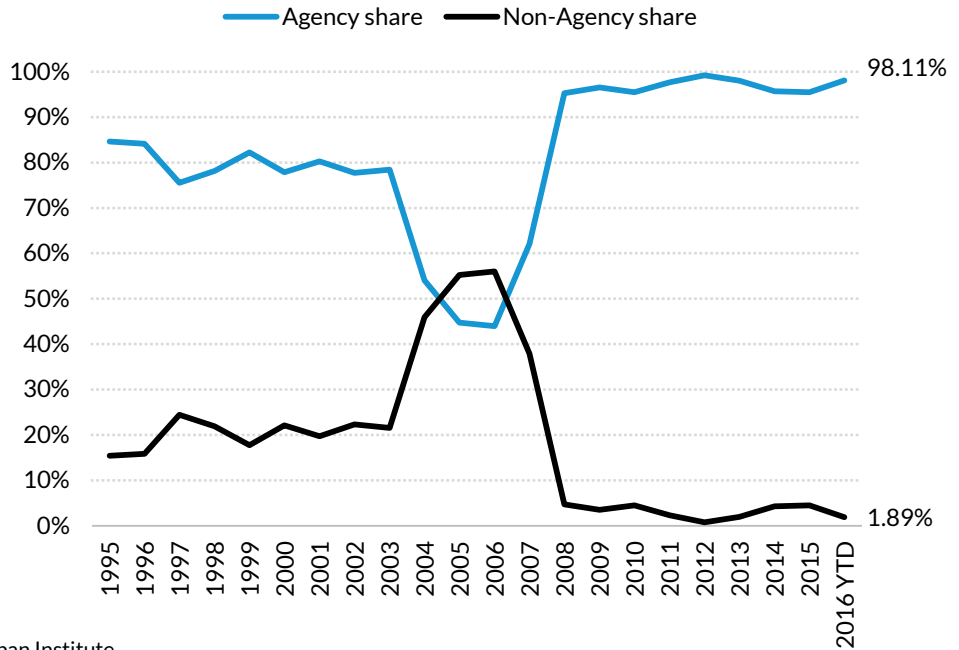


OVERVIEW

SECURITIZATION VOLUME AND COMPOSITION

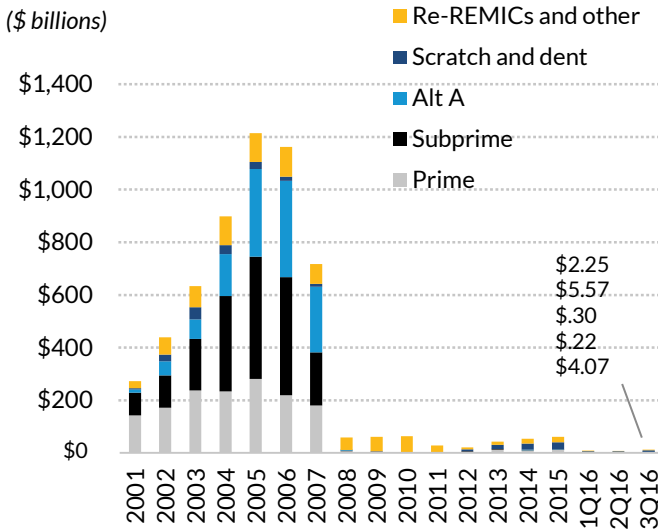
Agency/Non-Agency Share of Residential MBS Issuance

The non-agency share of mortgage securitizations in the first eleven months of 2016 was 1.89%, compared to 4.5% in 2015 and 4.3% in 2014. Moreover, of the limited securitization that is getting done, much of the volume is in non-performing and re-performing (scratch and dent) deals. The volume of prime securitizations in the third quarter of 2016 totaled \$4.07 billion, representing an increase of \$1.51 billion compared to the third quarter of 2015, and a \$3.31 billion jump over last quarter. However, both are tiny compared to pre-crises levels.



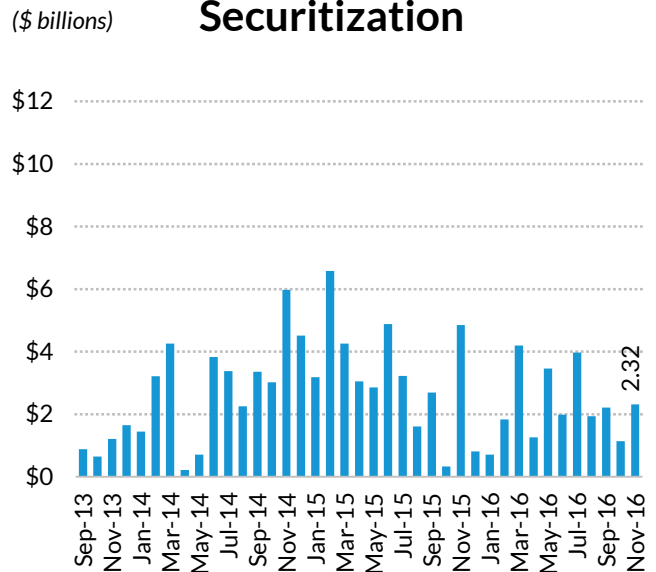
Sources: Inside Mortgage Finance and Urban Institute.
Note: Based on data from November 2016.

Non-Agency MBS Issuance



Sources: Inside Mortgage Finance and Urban Institute.

Monthly Non-Agency Securitization



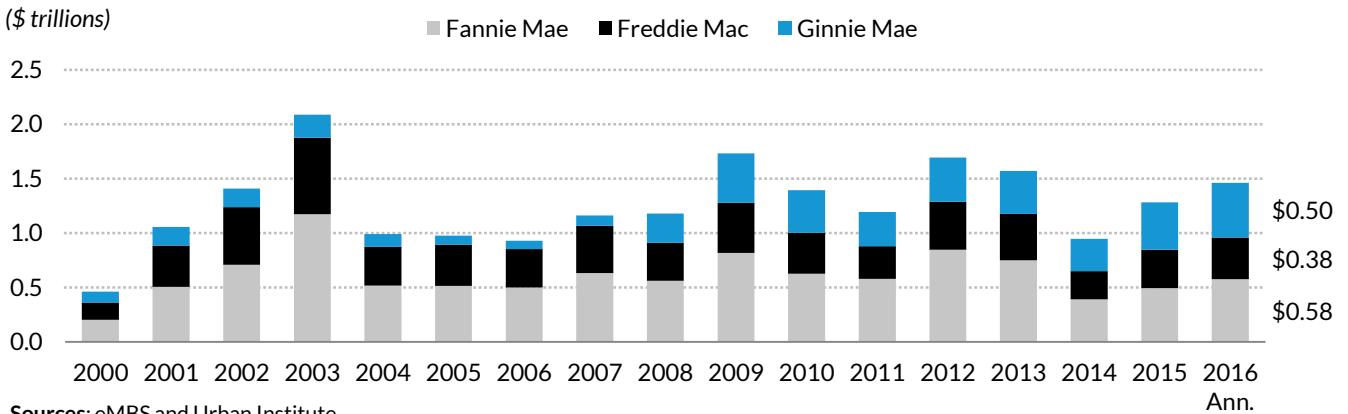
Sources: Inside Mortgage Finance and Urban Institute.
Note: Monthly figures equal total non-agency MBS issuance minus Re-REMIC issuance.

OVERVIEW

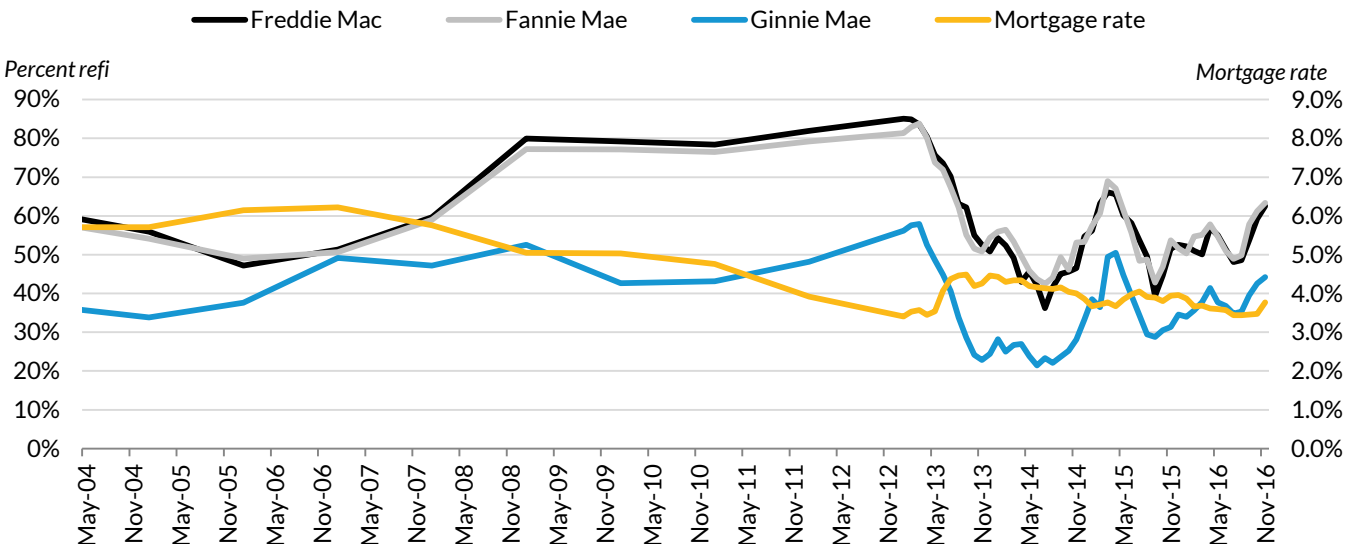
AGENCY ACTIVITY: VOLUMES AND PURCHASE/ REFI COMPOSITION

Agency issuance totaled \$1.34 trillion in the first eleven months of 2016, slightly up from \$1.19 trillion for the same period a year ago. In November 2016, refinances stayed high at 63 and 44 percent of the GSEs' and Ginnie Mae's business, respectively, reflecting low mortgage rates in previous months. The interest rates have gone up sharply since the Election Day, which will cut refinance activity. The delayed impact on agency issuance will show up in next few months.

Agency Gross Issuance



Percent Refi at Issuance



STATE OF THE MARKET

MORTGAGE ORIGINATION PROJECTIONS

Origination volume for 2016 should be very close to \$2.0 trillion, and Fannie Mae and Freddie Mac anticipate a total of \$1.88 trillion and \$2.00 trillion of origination, respectively, while MBA predicts \$1.89 trillion. However, all three organizations expect origination for 2017 to be in the \$1.5-\$1.6 trillion range, owing to a sharp decline in refinance activity due to rising interest rates. In 2016, refinance activity is expected to be in the 46-68 percent range, dropping to 28-34 percent in 2017. Fannie, Freddie and MBA all forecast 2016 housing starts to total 1.16 to 1.27 million units; further increases are expected in 2017. Fannie, Freddie and MBA all forecast home sales (new and existing) to be around 6 million units for 2016. Fannie and MBA predict higher home sales in 2017 than 2016--but Freddie predicts a small drop.

Total Originations and Refinance Shares

Period	Originations (\$ billions)			Refi Share (%)		
	Total, FNMA estimate	Total, FHLMC estimate	Total, MBA estimate	FNMA estimate	FHLMC estimate	MBA estimate
2016 Q1	344	385	350	45	31	47
2016 Q2	505	535	510	42	42	46
2016 Q3	555	590	561	49	47	47
2016 Q4	470	490	470	47	48	51
2017 Q1	358	300	365	47	35	40
2017Q2	438	450	430	32	31	28
2017Q3	433	430	437	30	27	26
2017 Q4	377	325	352	31	20	30
FY 2013	1866	1925	1845	60	59	60
FY 2014	1301	1350	1261	40	39	40
FY 2015	1730	1750	1679	47	45	46
FY 2016	1875	2000	1891	46	47	48
FY 2017	1607	1505	1584	34	28	31

Sources: Mortgage Bankers Association, Fannie Mae, Freddie Mac and Urban Institute.

Note: Shaded boxes indicate forecasted figures. All figures are estimates for total single-family market. Column labels indicate source of estimate. Regarding interest rates, the yearly averages for 2013, 2014, and 2015 were 4.0%, 3.9% and 3.9%, respectively. For 2016, Fannie Mae, Freddie Mac, and MBA project rates of 3.6, 3.7%, and 3.7%, respectively. For 2017, their respective projections are 3.6%, 4.1%, and 4.5%.

Housing Starts and Homes Sales

Year	Housing Starts, thousands			Home Sales, thousands				
	Total, FNMA estimate	Total, FHLMC estimate	Total, MBA estimate	Total, FNMA estimate	Total, FHLMC estimate	Total, MBA estimate	Existing, MBA estimate	New, MBA Estimate
FY 2013	925	920	930	5519	5520	5505	5073	432
FY 2014	1003	1000	1001	5377	5380	5360	4920	440
FY 2015	1112	1110	1165	5755	5750	5740	5237	503
FY 2016	1155	1160	1268	5965	5970	5999	5424	575
FY 2017	1308	1260	1363	6144	5750	6360	5711	649

Sources: Mortgage Bankers Association, Fannie Mae, Freddie Mac and Urban Institute.

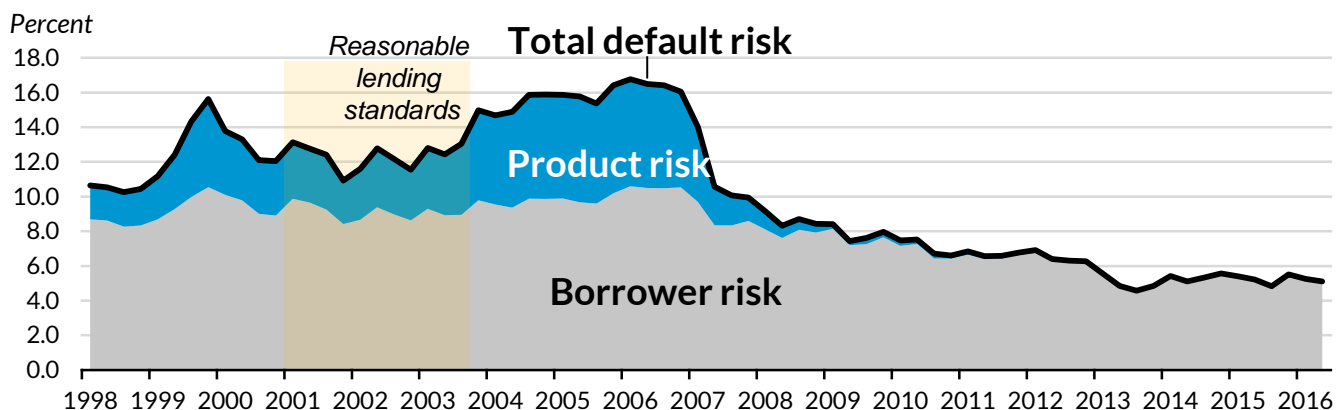
Note: Shaded boxes indicate forecasted figures. All figures are estimates for total single-family market; column labels indicate source of estimate.

STATE OF THE MARKET

CREDIT AVAILABILITY AND ORIGINATOR PROFITABILITY

Housing Credit Availability Index (HCAI)

HFPC's Housing Credit Availability Index (HCAI) assesses lenders' tolerance for both borrower risk and product risk, calculating the percentage of owner-occupied purchase loans that are likely to default. The index shows that credit availability continued to decline to 5.1 percent in 2016 Q2, slightly down from 5.3 percent in the previous quarter. The measure is less than half of the 2001-2003 standard of 12.5 percent. More information about the HCAI, including the breakdown by market segment, is available [here](#).



Sources: eMBS, Federal Housing Administration (FHA) and the Urban Institute.

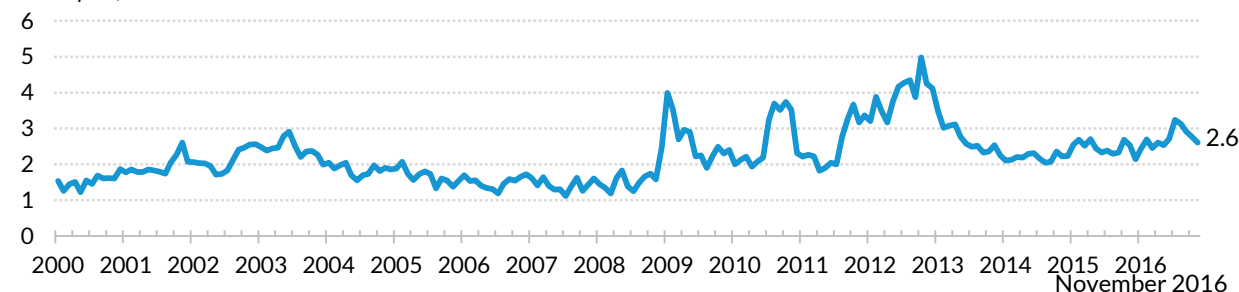
2016 Q2

Note: All series measure the first-time homebuyer share of purchase loans for principal residences.

Originator Profitability and Unmeasured Costs

When originator profitability is high, mortgage rates tend to be less responsive to the general level of interest rates, as originators are capacity-constrained. The measure used here, Originator Profitability and Unmeasured Costs (OPUC), is formulated and calculated by the Federal Reserve Bank of New York. It looks at the price at which the originator actually sells the mortgage into the secondary market and adds the value of retained servicing (both base and excess servicing, net of g-fees) as well as points paid by the borrower. Driven by the post-Brexit decline in interest rates, this measure rose sharply to \$3.21 in July 2016, but is down to \$2.6 in November 2016. It could fall further in the months ahead, as refi activity is choked off and volumes decline.

Dollars per \$100 loan



Sources: Federal Reserve Bank of New York, updated monthly and available at this link:

<http://www.ny.frb.org/research/epr/2013/1113fust.html> and Urban Institute.

Note: OPUC stands for "originator profits and unmeasured costs" as discussed in [Fuster et al. \(2013\)](#).

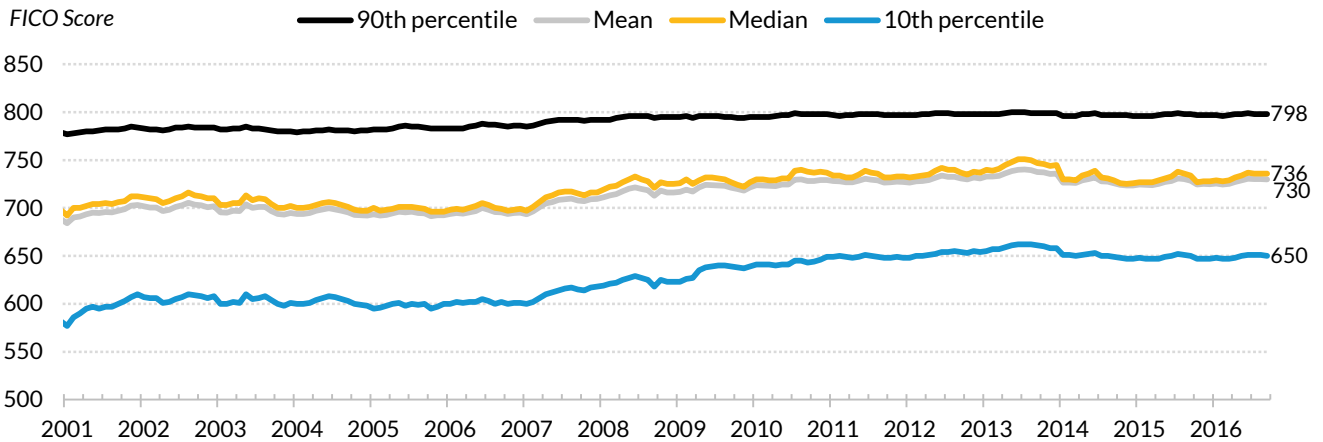
The OPUC series is a monthly (4-week moving) average.

STATE OF THE MARKET

CREDIT AVAILABILITY FOR PURCHASE LOANS

Access to credit has become extremely tight, especially for borrowers with low FICO scores. The mean and median FICO scores on new originations have both drifted up about 35 and 37 points over the last decade. The 10th percentile of FICO scores, which represents the lower bound of creditworthiness needed to qualify for a mortgage, stood at 650 as of September 2016. Prior to the housing crisis, this threshold held steady in the low 600s. LTV levels at origination remain relatively high, averaging 87, which reflects the large number of FHA purchase originations.

Borrower FICO Score at Origination

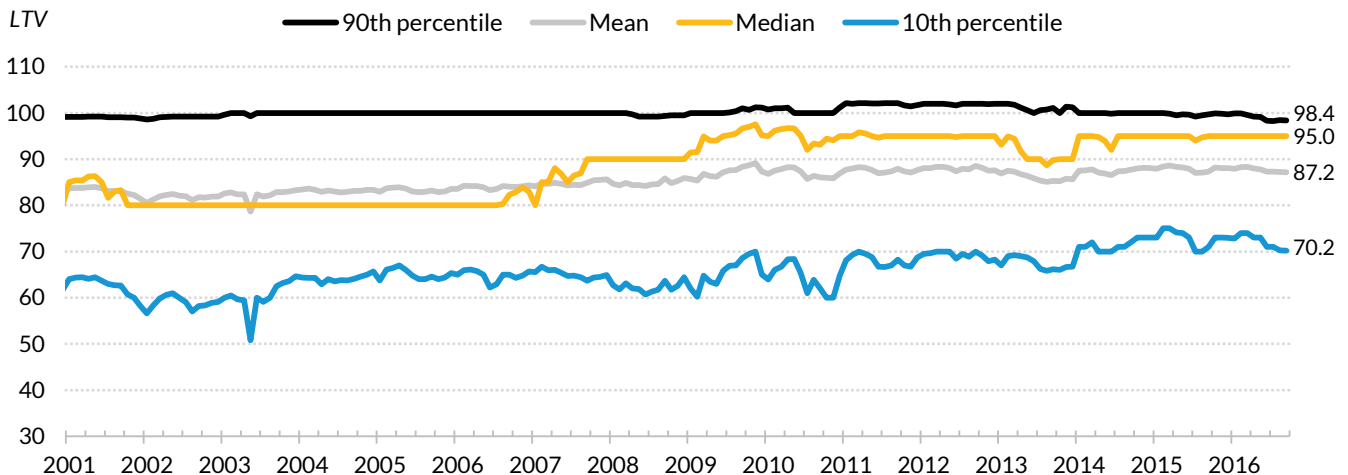


Sources: Corelogic, eMBS, HMDA, SIFMA and Urban Institute.

September 2016

Note: Includes owner-occupied purchase loans only

Combined LTV at Origination



Sources: Corelogic, eMBS, HMDA, SIFMA and Urban Institute.

September 2016

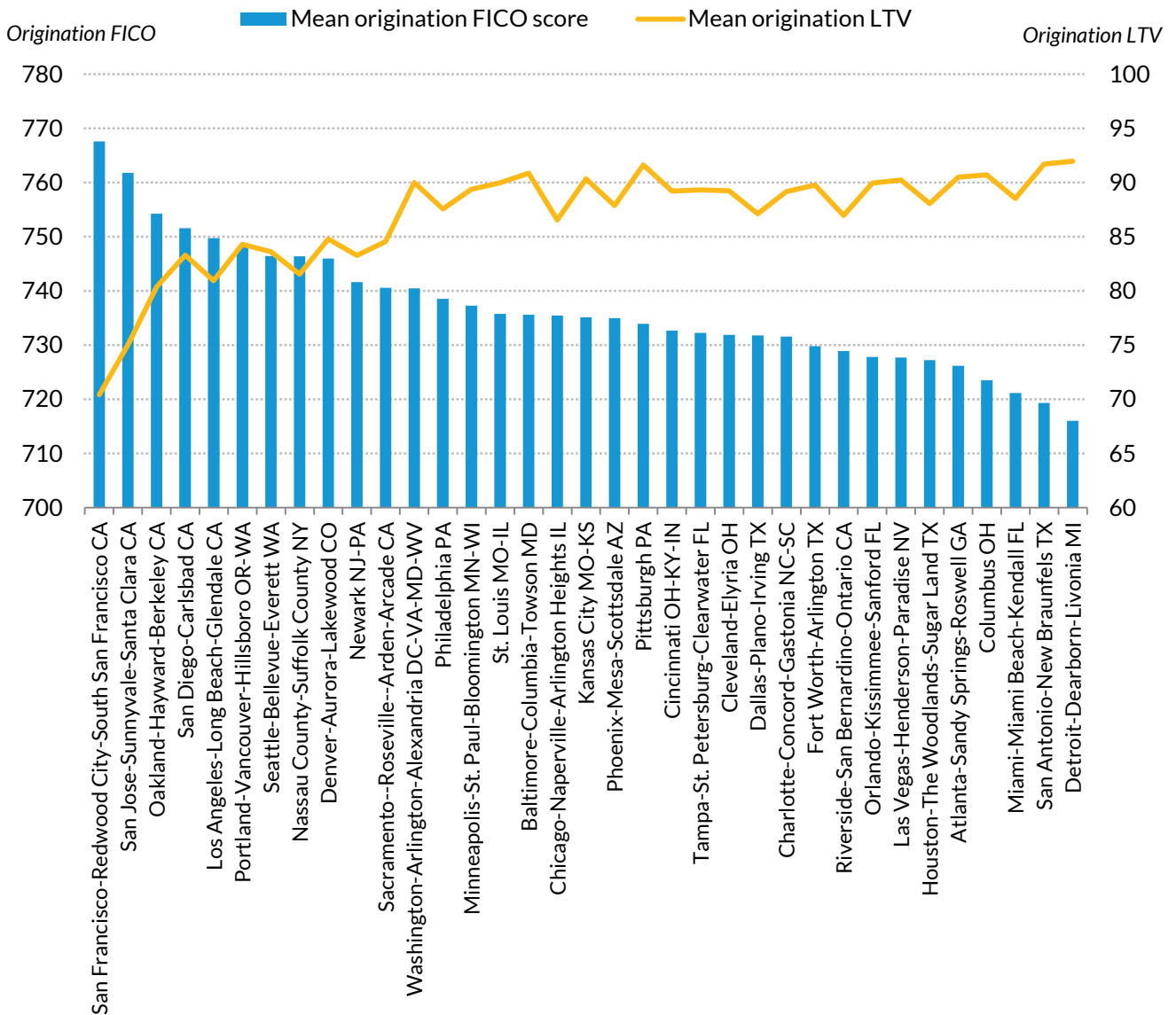
Note: Includes owner-occupied purchase loans only

STATE OF THE MARKET

CREDIT AVAILABILITY FOR PURCHASE LOANS

Credit has been tight for all borrowers with less-than-stellar credit scores--especially in MSAs with high housing prices. For example, the mean origination FICO for borrowers in San Francisco- Redwood City- South San Francisco, CA is 768, while in Detroit-Dearborn-Livonia, MI it is 716. Across all MSAs, lower average FICO scores tend to be correlated with high average LTVs, as these MSAs rely heavily on FHA/VA financing.

Origination FICO and LTV



Sources: Corelogic, eMBS, HMDA, SIFMA and Urban Institute.

Note: Includes owner-occupied purchase loans only. Data as of September 2016.

STATE OF THE MARKET

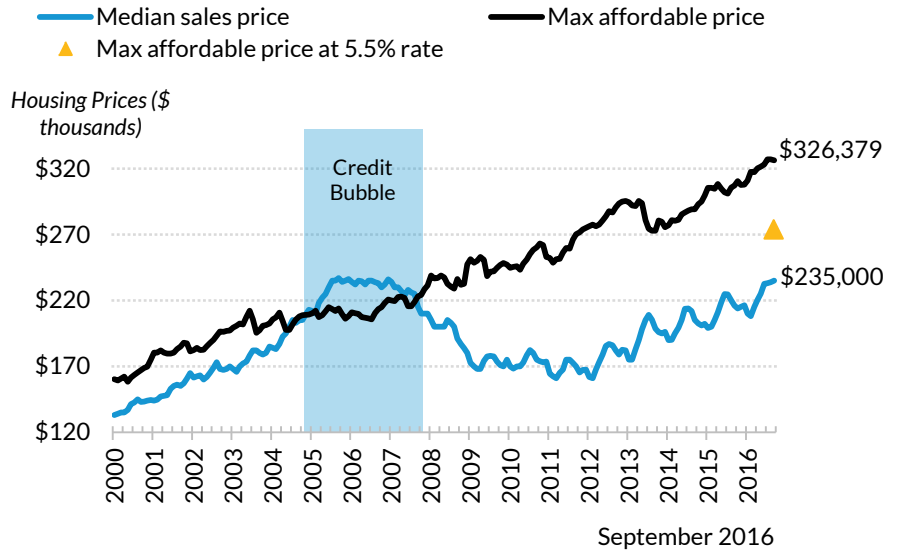
HOUSING AFFORDABILITY

National Housing Affordability Over Time

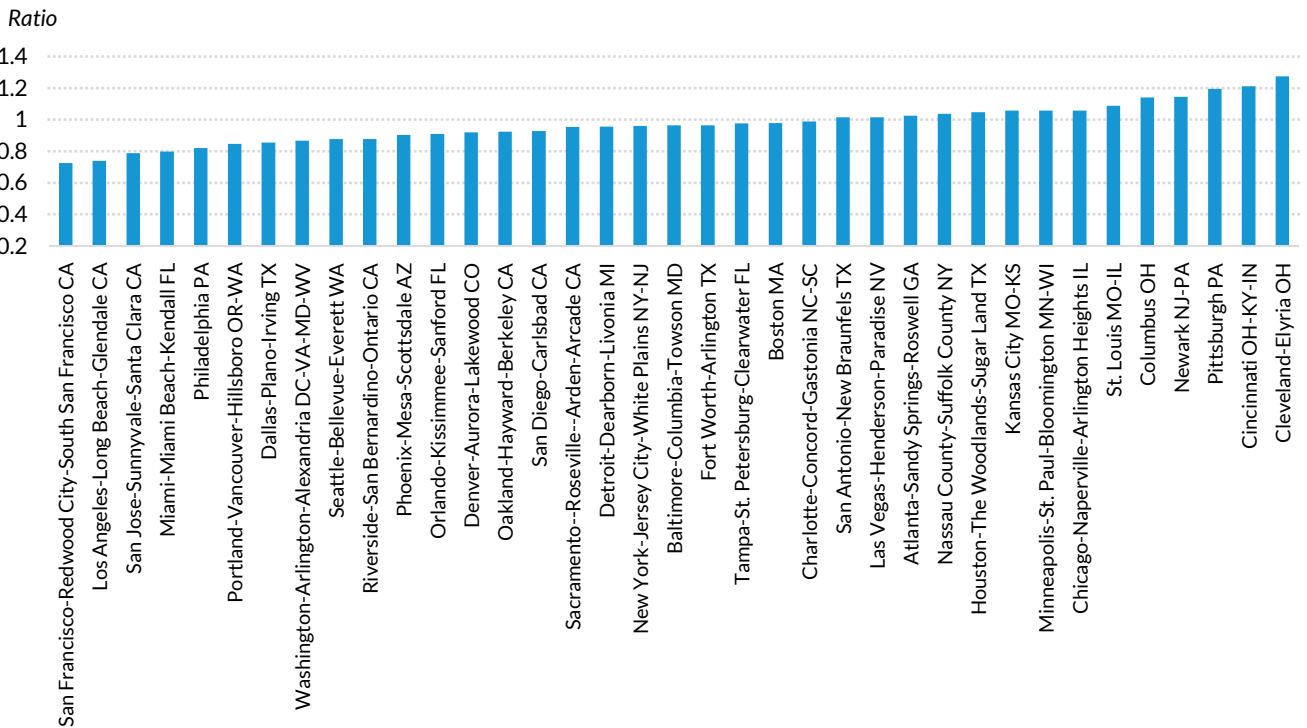
Home prices are still very affordable by historical standards, despite increases over the last four years. Even if interest rates rose to 5.5 percent, affordability would be at the long term historical average. The bottom chart shows that some areas are much more affordable than others.

Sources: CoreLogic, US Census, Freddie Mac and Urban Institute.

Note: The maximum affordable price is the house price that a family can afford putting 20 percent down, with a monthly payment of 28 percent of median family income, at the Freddie Mac prevailing rate for 30-year fixed-rate mortgage, and property tax and insurance at 1.75 percent of housing value.



Affordability Adjusted for MSA-Level DTI



Sources: CoreLogic, US Census, Freddie Mac and Urban Institute calculations based on NAR methodology.

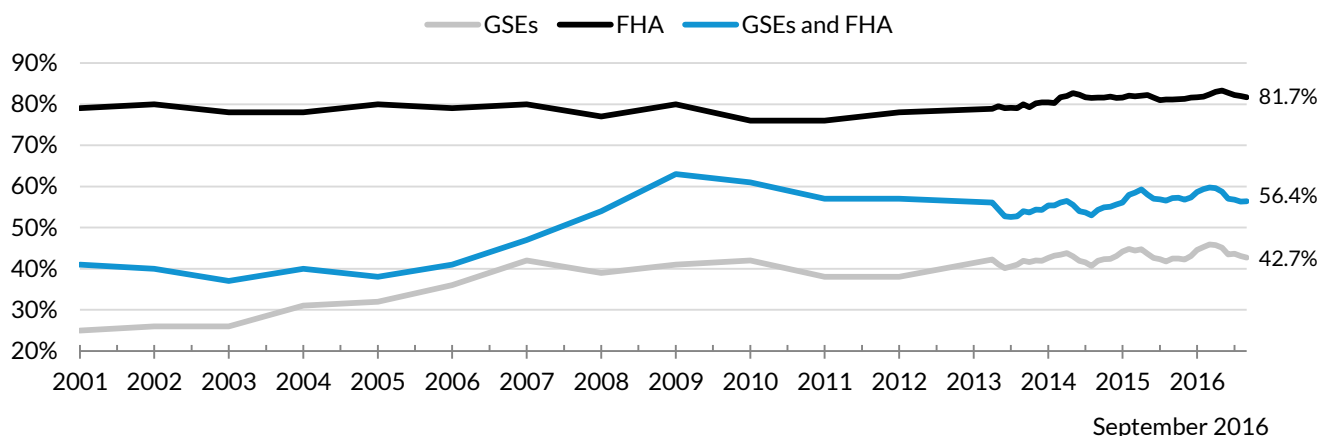
Note: Index is calculated relative to home prices in 2000-03. A ratio above 1 indicates higher affordability in September 2016 than in 2000-03.

STATE OF THE MARKET

FIRST-TIME HOMEBUYERS

First-Time Homebuyer Share

In September 2016, the first-time homebuyer share of GSE purchase loans declined slightly to 42.7 percent. The FHA has always been more focused on first-time homebuyers, with its first-time homebuyer share hovering around 80 percent and now stood at 81.7 percent in September 2016, down from the peak of 83.3 percent in May 2016. The bottom table shows that based on mortgages originated in September 2016, the average first-time homebuyer was more likely than an average repeat buyer to take out a smaller loan and have a lower credit score and higher LTV and DTI, thus requiring a higher interest rate.



Sources: eMBS, Federal Housing Administration (FHA) and Urban Institute.

Note: All series measure the first-time homebuyer share of purchase loans for principal residences.

Comparison of First-Time and Repeat Homebuyers, GSE and FHA Originations

Characteristics	GSEs		FHA		GSEs and FHA	
	First-time	Repeat	First-time	Repeat	First-time	Repeat
Loan Amount (\$)	227,793	248,881	195,569	216,458	212,224	242,456
Credit Score	741.9	755.6	680.2	686.8	712.1	741.9
LTV (%)	86.6	79.4	95.6	94.5	90.6	82.0
DTI (%)	33.6	34.2	40.9	41.7	37.1	35.7
Loan Rate (%)	3.67	3.57	3.66	3.58	3.66	3.57

Sources: eMBS and Urban Institute.

Note: Based on owner-occupied purchase mortgages originated in September 2016.

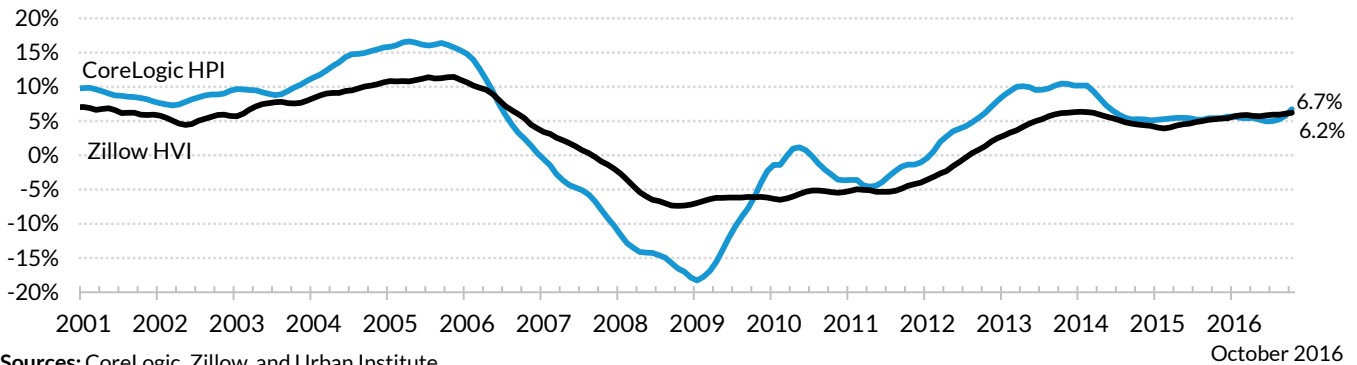
STATE OF THE MARKET

HOME PRICE INDICES

National Year-Over-Year HPI Growth

While the strong year-over-year house price growth from 2012 to 2013 has slowed somewhat, home price appreciation remains robust as measured by the repeat sales index from CoreLogic and hedonic index from Zillow.

Year-over-year growth rate



Sources: CoreLogic, Zillow, and Urban Institute.

October 2016

Changes in CoreLogic HPI for Top MSAs

Despite rising 43.3 percent from the trough, national house prices still must grow 4.9 percent to reach pre-crisis peak levels. At the MSA level, six of the top 15 MSAs have reached their peak HPI- New York, NY; Atlanta, GA; Houston, TX; Dallas, TX; Seattle, WA and Denver, CO. Two MSAs particularly hard hit by the boom and bust- Phoenix, AZ and Riverside, CA- would need to rise 28 and 31 percent to return to peak levels, respectively.

MSA	HPI changes (%)			% Rise needed to achieve peak
	2000 to peak	Peak to trough	Trough to current	
United States	93.7	-33.5	43.3	4.9
New York-Jersey City-White Plains NY-NJ	112.7	-16.7	28.9	-6.9
Los Angeles-Long Beach-Glendale CA	177.4	-38.5	59.6	1.9
Chicago-Naperville-Arlington Heights IL	66.1	-36.0	32.0	18.3
Atlanta-Sandy Springs-Roswell GA	38.0	-33.1	52.0	-1.6
Washington-Arlington-Alexandria DC-VA-MD-WV	155.5	-34.3	33.7	13.9
Houston-The Woodlands-Sugar Land TX	39.7	-14.1	43.5	-18.9
Phoenix-Mesa-Scottsdale AZ	123.8	-52.8	65.1	28.3
Riverside-San Bernardino-Ontario CA	186.3	-52.8	62.3	30.5
Dallas-Plano-Irving TX	34.1	-13.8	49.3	-22.3
Minneapolis-St. Paul-Bloomington MN-WI	73.1	-30.5	37.1	4.9
Seattle-Bellevue-Everett WA	91.0	-29.2	59.4	-11.4
Denver-Aurora-Lakewood CO	35.6	-13.4	62.0	-28.8
Baltimore-Columbia-Towson MD	122.8	-24.6	14.7	15.7
San Diego-Carlsbad CA	145.0	-37.6	51.2	6.0
Anaheim-Santa Ana-Irvine CA	160.9	-35.8	47.7	5.4

Sources: CoreLogic HPIs and Urban Institute. Data as of October 2016.

Note: This table includes the largest 15 Metropolitan areas by mortgage count.

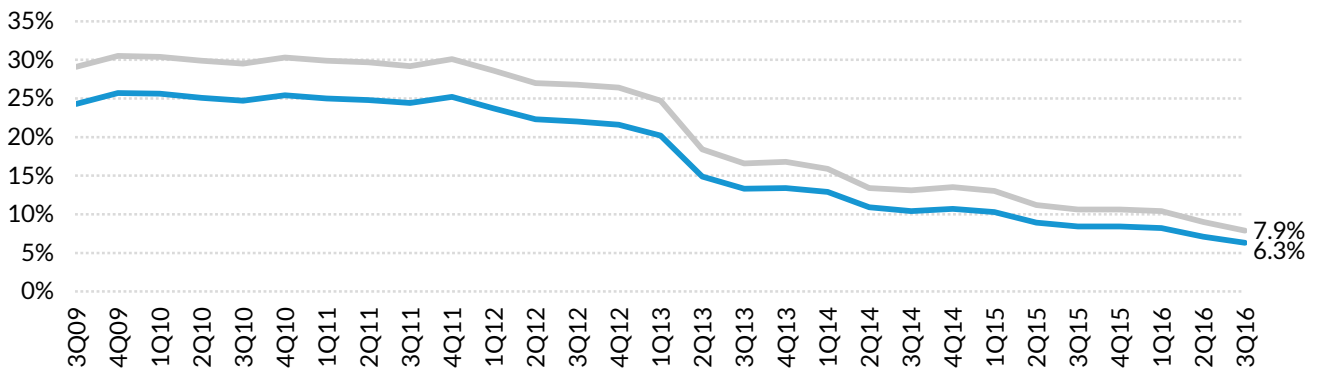
STATE OF THE MARKET

NEGATIVE EQUITY & SERIOUS DELINQUENCY

Negative Equity Share

— Negative equity — Near or in negative equity

With housing prices continuing to appreciate, residential properties in negative equity (LTV greater than 100) as a share of all residential properties with a mortgage have continued to decline to 6.3 percent as of Q3 2016. Residential properties in near negative equity (LTV between 95 and 100) comprise another 1.6 percent.

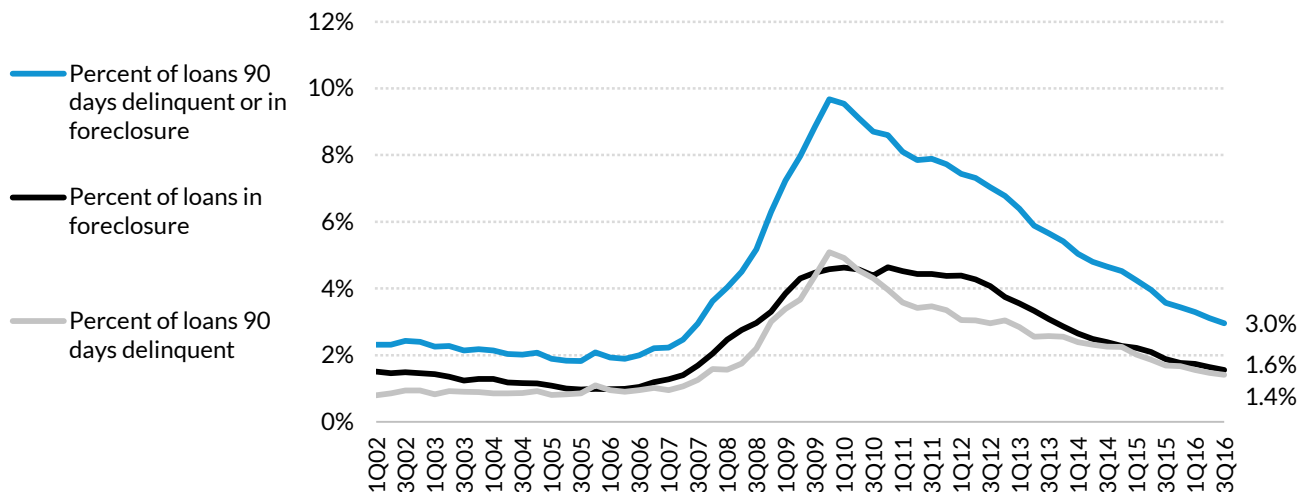


Sources: CoreLogic and Urban Institute.

Note: CoreLogic negative equity rate is the percent of all residential properties with a mortgage in negative equity. Loans with negative equity refer to loans above 100 percent LTV. Loans near negative equity refer to loans above 95 percent LTV.

Loans in Serious Delinquency/Foreclosure

Serious delinquencies and foreclosures continue to decline with the housing recovery, but remain quite high relative to the early 2000s. Loans 90 days delinquent or in foreclosure totaled 3.0 percent in the third quarter of 2016, down from 3.6 percent for the same quarter a year earlier.



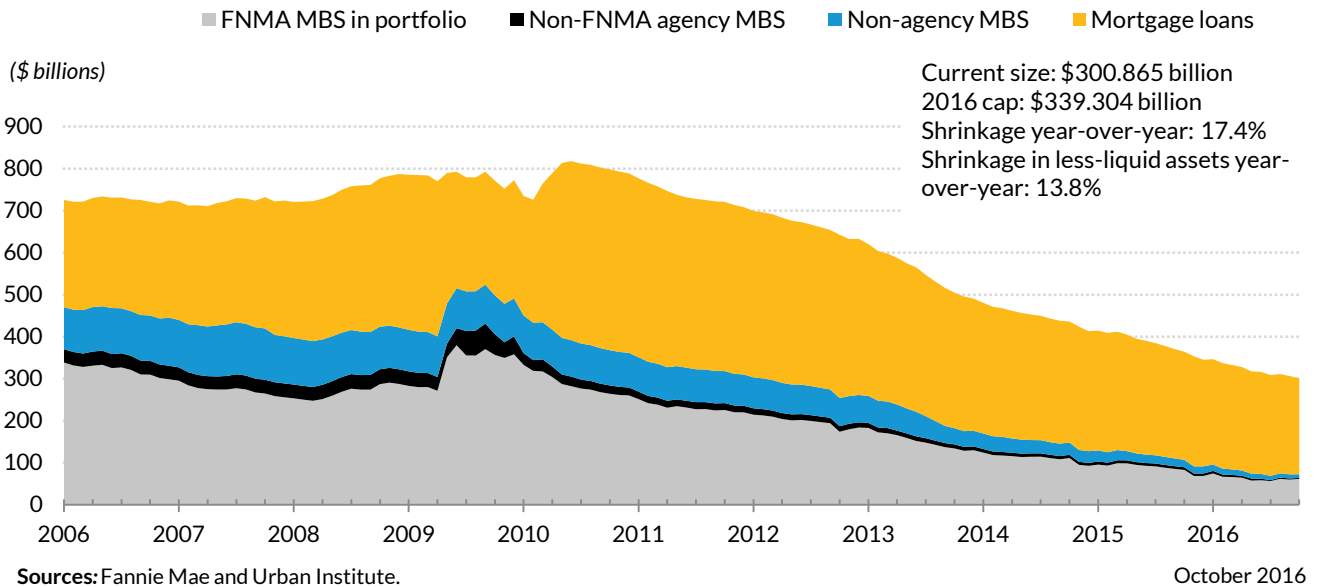
Sources: Mortgage Bankers Association and Urban Institute.

GSES UNDER CONSERVATORSHIP

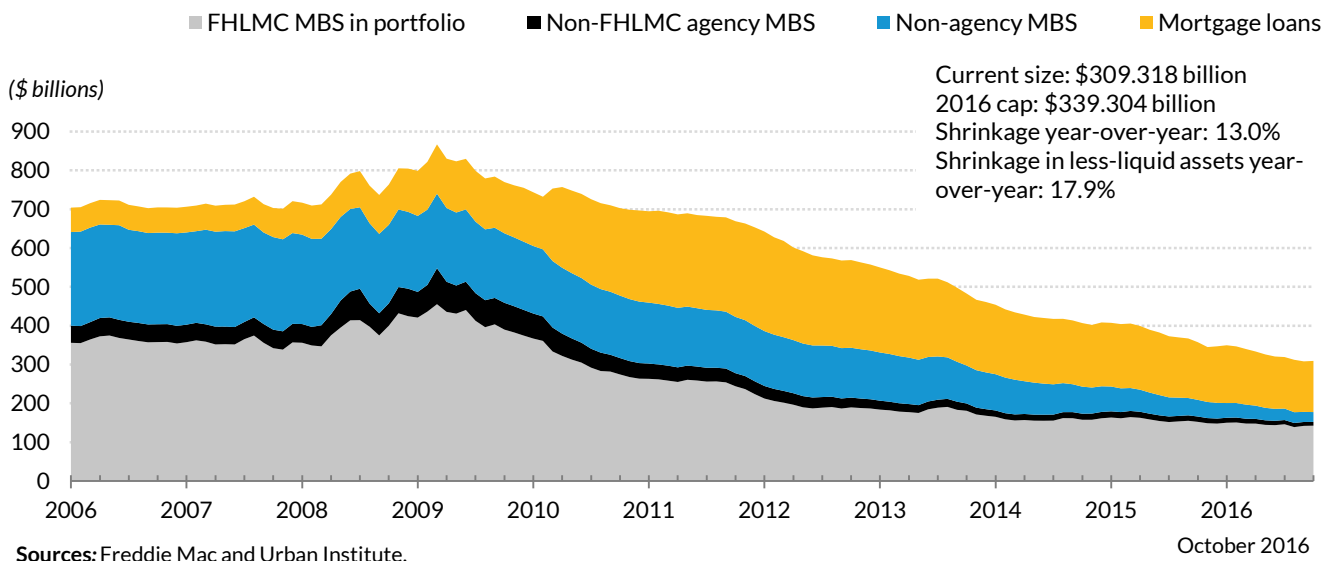
GSE PORTFOLIO WIND-DOWN

Both GSEs continue to contract their portfolios; since October 2015, Fannie Mae contracted by 17.4 percent and Freddie Mac by 13.0 percent. They are shrinking their less liquid assets (mortgage loans and non-agency MBS) at close to the same pace that they are shrinking their entire portfolio. Both GSEs have been under their 2016 caps since the first quarter of 2016.

Fannie Mae Mortgage-Related Investment Portfolio Composition



Freddie Mac Mortgage-Related Investment Portfolio Composition

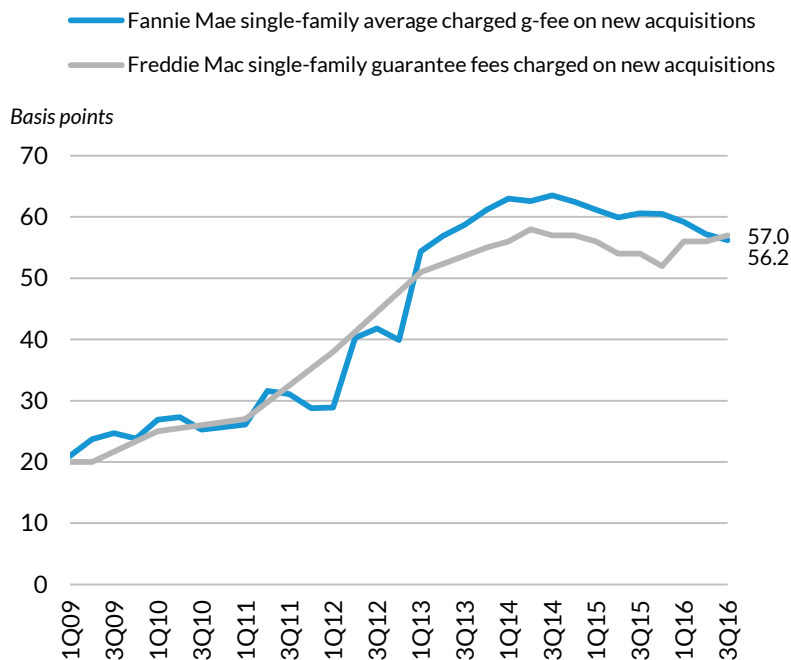


GSES UNDER CONSERVATORSHIP

EFFECTIVE GUARANTEE FEES

Guarantee Fees Charged on New Acquisitions

Fannie's average charged g-fee on new single-family originations edged down to 56.2 bps in Q3 2016, down from 60.6 bps in the same quarter last year. Freddie's fee rose slightly to 57.0 bps in Q3 2016, up slightly from 54.0 bps in Q3 2015. This is still a marked increase over 2012 and 2011, and has contributed to the GSEs' profits. Fannie's new Loan-Level Price Adjustments (LLPAs), effective September 2015, are shown in the second table. The Adverse Market Delivery Charge (AMDC) of 0.25 percent is eliminated, and LLPAs for some borrowers are slightly increased to compensate for the revenue lost from the AMDC. As a result, the new LLPAs have had a modest impact on GSE pricing.



Sources: Fannie Mae, Freddie Mae and Urban Institute.

Fannie Mae Upfront Loan-Level Price Adjustments (LLPAs)

Credit Score	LTV							
	≤60	60.01 - 70	70.01 - 75	75.01 - 80	80.01 - 85	85.01 - 90	90.01 - 95	95.01 - 97
> 740	0.00%	0.25%	0.25%	0.50%	0.25%	0.25%	0.25%	0.75%
720 - 739	0.00%	0.25%	0.50%	0.75%	0.50%	0.50%	0.50%	1.00%
700 - 719	0.00%	0.50%	1.00%	1.25%	1.00%	1.00%	1.00%	1.50%
680 - 699	0.00%	0.50%	1.25%	1.75%	1.50%	1.25%	1.25%	1.50%
660 - 679	0.00%	1.00%	2.25%	2.75%	2.75%	2.25%	2.25%	2.25%
640 - 659	0.50%	1.25%	2.75%	3.00%	3.25%	3.75%	2.75%	2.75%
620 - 639	0.50%	1.50%	3.00%	3.00%	3.25%	3.25%	3.25%	3.50%
< 620	0.50%	1.50%	3.00%	3.00%	3.25%	3.25%	3.25%	3.75%
Product Feature (Cumulative)								
High LTV	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Investment Property	2.125%	2.125%	2.125%	3.375%	4.125%	N/A	N/A	N/A

Sources: Fannie Mae and Urban Institute.

Note: For whole loans purchased on or after September 1, 2015, or loans delivered into MBS pools with issue dates on or after September 1, 2015.

GSES UNDER CONSERVATORSHIP

GSE RISK-SHARING TRANSACTIONS

Fannie Mae and Freddie Mac have been laying off back-end credit risk through CAS and STACR as well as through reinsurance transactions. They have also done a few front-end transactions with originators and experimented with deep MI coverage with private mortgage insurers. FHFA's 2016 scorecard requires the GSEs to lay off credit risk on 90 percent of newly acquired loans in categories targeted for transfer. Fannie Mae's CAS issuances to date cover 24.5% of its outstanding guarantees, while Freddie's STACR covers 34.9%.

Fannie Mae – Connecticut Avenue Securities (CAS)

Date	Transaction	Reference Pool Size (\$ m)	Amount Issued (\$m)	% of Reference Pool Covered
October 2013	CAS 2013 – C01	\$26,756	\$675	2.5%
January 2014	CAS 2014 – C01	\$29,309	\$750	2.6%
May 2014	CAS 2014 – C02	\$60,818	\$1,600	2.6%
July 2014	CAS 2014 – C03	\$78,234	\$2,050	2.6%
November 2014	CAS 2014 – C04	\$58,873	\$1,449	2.5%
February 2015	CAS 2015 – C01	\$50,192	\$1,469	2.9%
May 2015	CAS 2015 – C02	\$45,009	\$1,449	3.2%
June 2015	CAS 2015 – C03	\$48,326	\$1,100	2.3%
October 2015	CAS 2015 – C04	\$43,599	\$1,446	3.3%
February 2016	CAS 2016 – C01	\$28,882	\$945	3.3%
March 2016	CAS 2016 – C02	\$35,004	\$1,032	2.9%
April 2016	CAS 2016 – C03	\$36,087	\$1,166	3.2%
July 2016	CAS 2016 – C04	\$42,179	\$1,322	3.1%
August 2016	CAS 2016 – C05	\$38,668	\$1,202	3.1%
November 2016	CAS 2016 – C06	\$33,124	\$1,024	3.1%
December 2016	CAS 2016 – C07	\$22,515	\$702	3.1%
Total		\$677,575	\$19,379	2.9%
Percent of Fannie Mae's Total Book of Business		24.46%		

Freddie Mac – Structured Agency Credit Risk (STACR)

Date	Transaction	Reference Pool Size (\$ m)	Amount Issued (\$m)	% of Reference Pool Covered
July 2013	STACR Series 2013 – DN1	\$22,584	\$500	2.2%
November 2013	STACR Series 2013 – DN2	\$35,327	\$630	1.8%
February 2014	STACR Series 2014 – DN1	\$32,077	\$1,008	3.1%
April 2014	STACR Series 2014 – DN2	\$28,147	\$966	3.4%
August 2014	STACR Series 2014 – DN3	\$19,746	\$672	3.4%
August 2014	STACR Series 2014 – HQ1	\$9,975	\$460	4.6%
September 2014	STACR Series 2014 – HQ2	\$33,434	\$770	2.3%
October 2014	STACR Series 2014 – DN4	\$15,741	\$611	3.9%
October 2014	STACR Series 2014 – HQ3	\$8,001	\$429	5.4%
February 2015	STACR Series 2015 – DN1	\$27,600	\$880	3.2%
March 2015	STACR Series 2015 – HQ1	\$16,552	\$860	5.2%
April 2015	STACR Series 2015 – DNA1	\$31,876	\$1,010	3.2%
May 2015	STACR Series 2015 – HQ2	\$30,325	\$426	1.4%
June 2015	STACR Series 2015 – DNA2	\$31,986	\$950	3.0%
September 2015	STACR Series 2015 – HQA1	\$19,377	\$872	4.5%
November 2015	STACR Series 2015 – DNA3	\$34,706	\$1,070	3.1%
December 2015	STACR Series 2015 – HQA2	\$17,100	\$590	3.5%
January 2016	STACR Series 2016 – DNA1	\$35,700	\$996	2.8%
March 2016	STACR Series 2016 – HQA1	\$17,931	\$475	2.6%
May 2016	STACR Series 2016 – DNA2	\$30,589	\$916	3.0%
May 2016	STACR Series 2016 – HQA2	\$18,400	\$627	3.4%
June 2016	STACR Series 2016 – DNA3	\$26,400	\$795	3.0%
September 2016	STACR Series 2016 – HQA3	\$15,709	\$515	3.3%
September 2016	STACR Series 2016 – DNA4	\$24,845	\$739	3.0%
October 2016	STACR Series 2016 – HQA4	\$13,847	\$478	3.5%
Total		\$613,683	\$18,245	3.0%
Percent of Freddie Mac's Total Book of Business		34.87%		

Sources: Fannie Mae, Freddie Mac and Urban Institute.

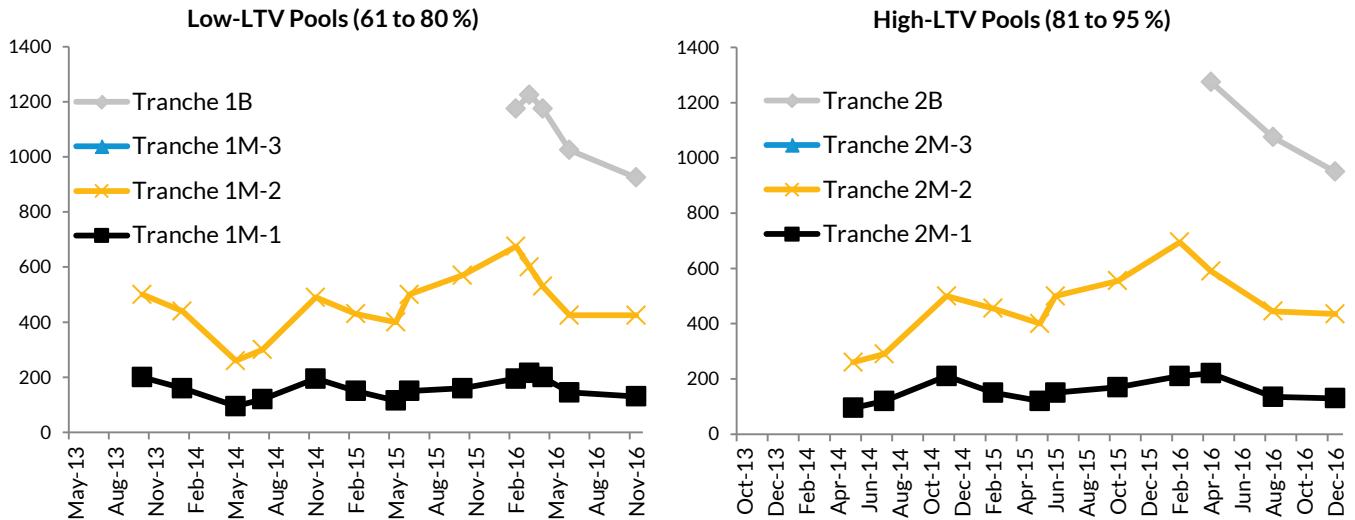
Note: Classes A-H, M-1H, M-2H, and B-H are reference tranches only. These classes are not issued or sold. The risk is retained by Fannie Mae and Freddie Mac. "CE" = credit enhancement.

GSES UNDER CONSERVATORSHIP

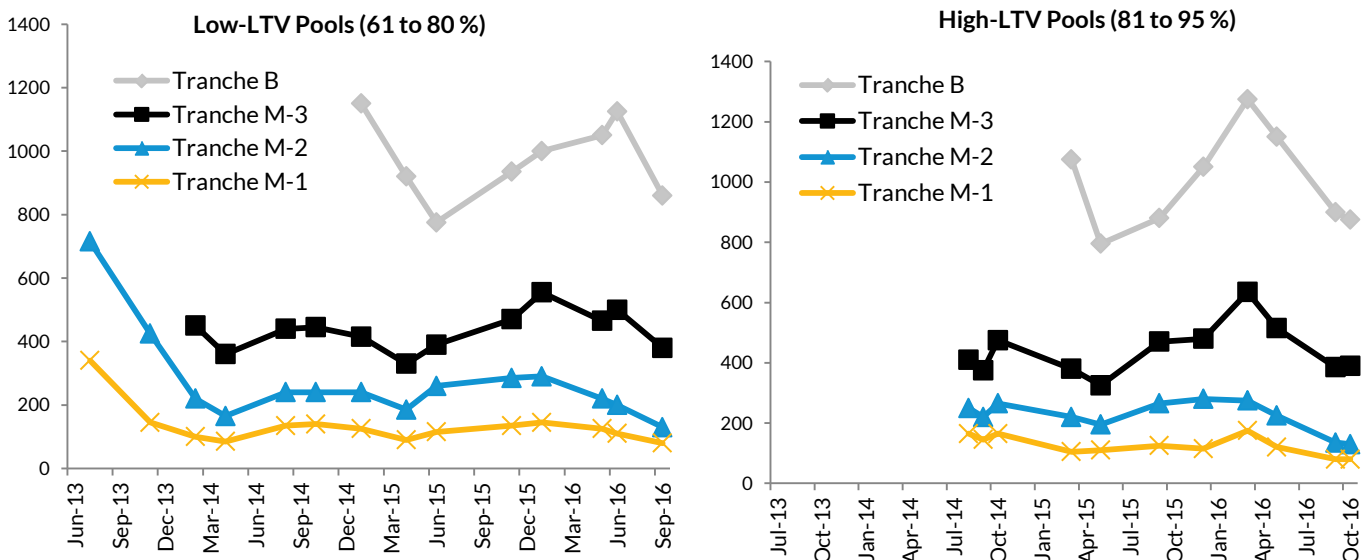
GSE RISK-SHARING SPREADS

CAS and STACR spreads have moved around considerably since 2013, with the bottom mezzanine tranche and the first loss bonds experiencing considerably more volatility than the top mezzanine bonds (the M-1 in two tranche deals, the M-1 and M-2 in three tranche deals). Tranche B in particular has been highly volatile because of its first loss position. Spreads widened especially during Q1 2016 due to falling oil prices, concerns about global economic growth and the slowdown in China. Since then spreads have resumed their downward trend but remain volatile.

Fannie Mae CAS Spreads at-issuance (basis points over 1-month LIBOR)



Freddie Mac STACR Spreads at-issuance (basis points over 1-month LIBOR)



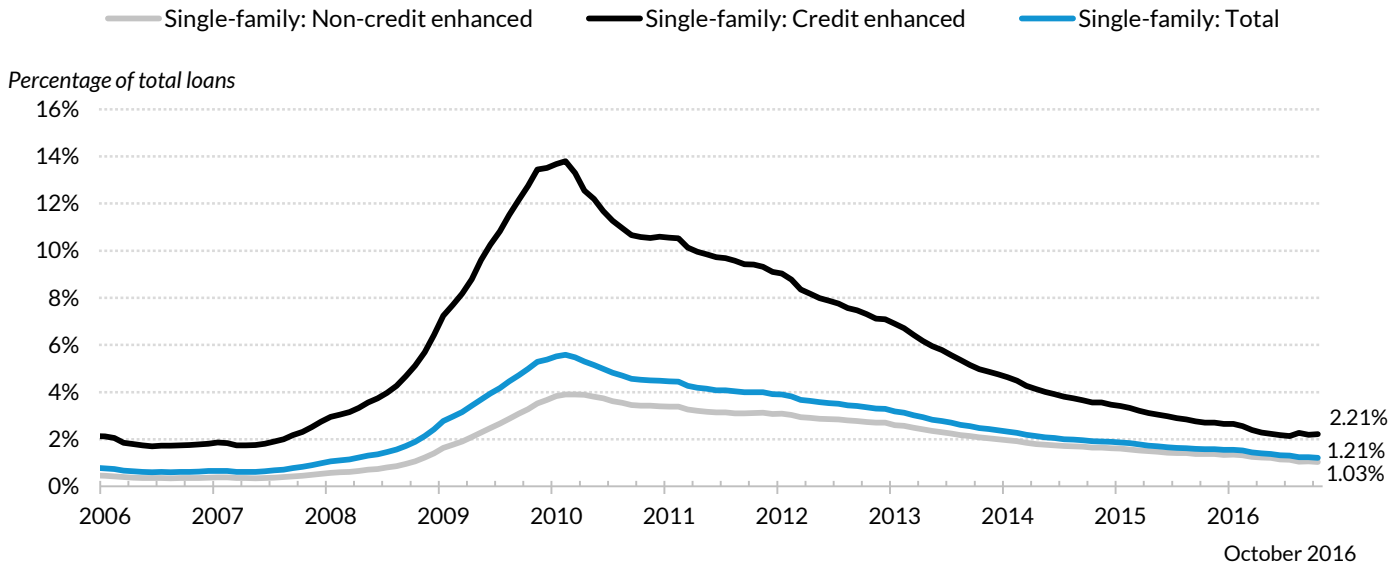
Sources: Fannie Mae, Freddie Mac Press Releases and Urban Institute.

GSES UNDER CONSERVATORSHIP

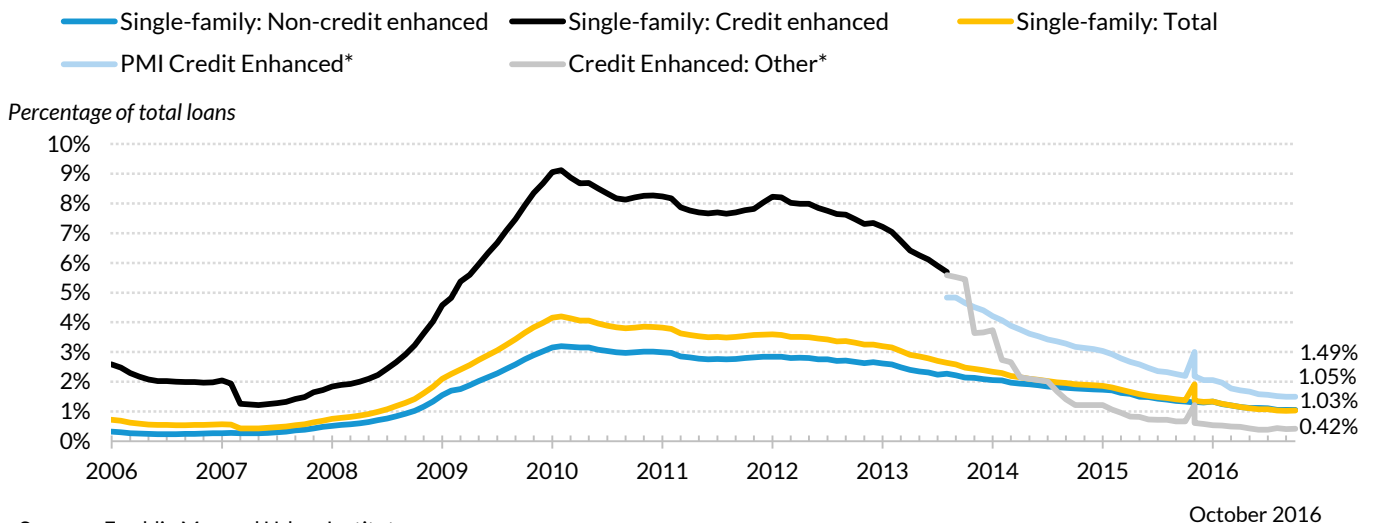
SERIOUS DELINQUENCY RATES

Serious delinquency rates of GSE loans continue to decline as the legacy portfolio is resolved and the pristine, post-2009 book of business exhibits very low default rates. As of October 2016, 1.21 percent of the Fannie portfolio and 1.03 percent of the Freddie portfolio were seriously delinquent, down from 1.58 percent for Fannie and 1.38 percent for Freddie in October 2015.

Serious Delinquency Rates–Fannie Mae



Serious Delinquency Rates–Freddie Mac



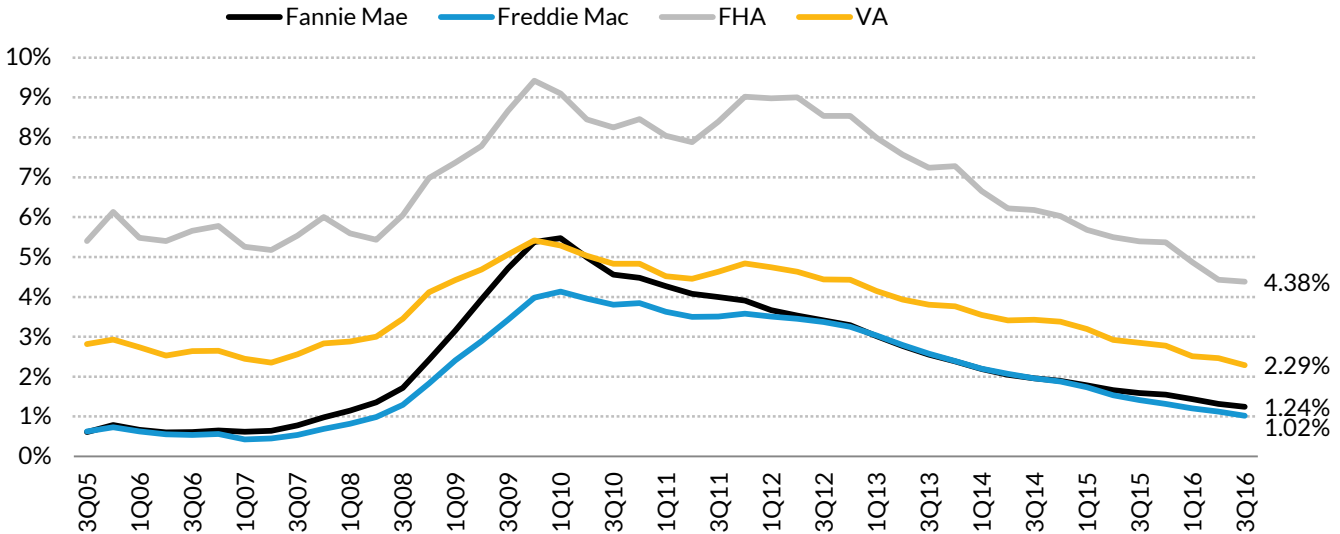
Note*: Following a change in Freddie reporting in September 2014, we switched from reporting credit enhanced delinquency rates to PMI and other credit enhanced delinquency rates. Freddie reported these two categories for credit-enhanced loans going back to August 2013. The other category includes single-family loans covered by financial arrangements (other than primary mortgage insurance) including loans in reference pools covered by STACR debt note transactions as well as other forms of credit protection.

GSES UNDER CONSERVATORSHIP

SERIOUS DELINQUENCY RATES

Serious delinquencies for FHA, VA and GSE single-family loans continue to decline. GSE delinquencies remain higher relative to 2005-2007, while FHA and VA delinquencies (which are higher than their GSE counterparts) are now at levels lower than 2005-2007. GSE multifamily delinquencies have declined to pre-crisis levels, although they did not reach problematic levels even in the worst years of the crisis.

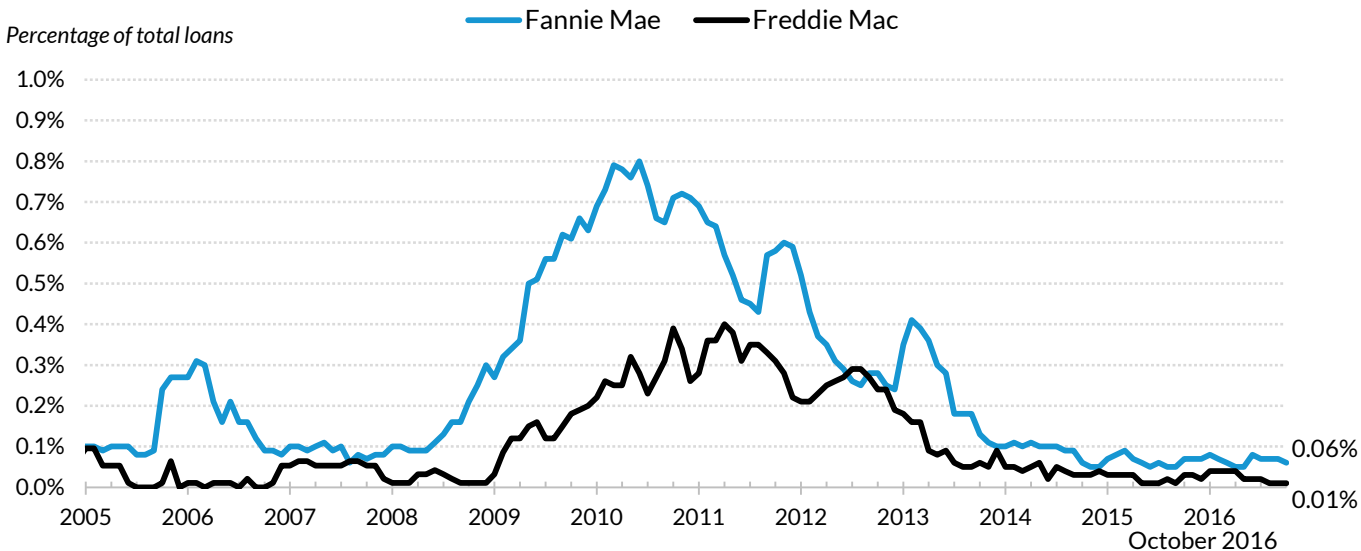
Serious Delinquency Rates—Single-Family Loans



Sources: Fannie Mae, Freddie Mac, MBA Delinquency Survey and Urban Institute.

Note: Serious delinquency is defined as 90 days or more past due or in the foreclosure process.

Serious Delinquency Rates—Multifamily GSE Loans



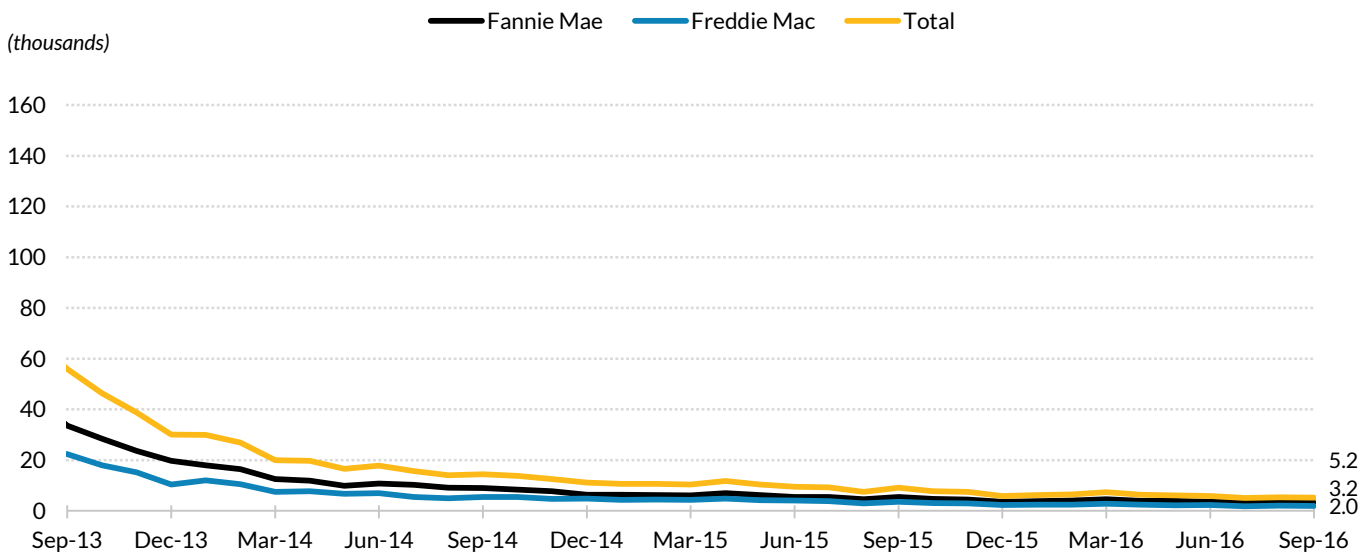
Sources: Fannie Mae, Freddie Mac and Urban Institute.

Note: Multifamily serious delinquency rate is the unpaid balance of loans 60 days or more past due, divided by the total unpaid balance.

GSES UNDER CONSERVATORSHIP REFINANCE ACTIVITY

The Home Affordable Refinance Program (HARP) refinances have slowed considerably, reflecting the considerable number of borrowers who have already refinanced. Since the program's Q2 2009 inception, HARP refinances total 3.4 million, accounting for 14 percent of all GSE refinances in this period. In September 2016, the latest month for which data is available, HARP refinances accounted for 2.1 percent of total refinances.

Total HARP Refinance Volume



Sources: FHFA Refinance Report and Urban Institute.

HARP Refinances

	September 2016	Year-to-date 2016	Inception to date	2015	2014	2013
Total refinances	250,534	1,485,909	24,068,908	2,084,936	1,536,788	4,081,911
Total HARP refinances	5,204	55,573	3,434,451	110,109	212,488	892,914
Share 80-105 LTV	78.4%	78.4%	70.3%	76.5%	72.5%	56.4%
Share 105-125 LTV	15.2%	14.6%	17.1%	15.6%	17.2%	22.4%
Share >125 LTV	6.4%	7.0%	12.6%	8.0%	10.3%	21.2%
All other streamlined refinances	13,881	121,824	3,861,857	218,244	268,026	735,210

Sources: FHFA Refinance Report and Urban Institute.

GSES UNDER CONSERVATORSHIP

GSE LOANS: POTENTIAL REFINANCES

To qualify for HARP, a loan must be originated before the June 2009 cutoff date, have a marked-to-market loan-to-value (MTM LTV) ratio above 80, and have no more than one delinquent payment in the past year and none in the past six months. There are 251,017 eligible loans, but 45 percent are out-of-the-money because the closing cost would exceed the long-term savings, leaving 138,948 loans where a HARP refinance is both permissible and economically advantageous for the borrower. Loans below the LTV minimum but meeting all other HARP requirements are eligible for GSE streamlined refinancing. Of the 4,855,163 loans in this category, 3,956,403 are in-the-money.

Over 80 percent of the GSE book of business that meets the pay history requirements was originated after the June, 2009 cutoff date. FHFA extended the deadline for the HARP program until Sept 30, 2017 to create a transition period for a new high LTV refi product planned to launch toward the end of 2017.

Total loan count	27,127,749
Loans that do not meet pay history requirement	1,197,162
Loans that meet pay history requirement:	25,930,587
Pre-June 2009 origination	5,106,180
Post-June 2009 origination	20,824,407

Loans Meeting HARP Pay History Requirements

Pre-June 2009

LTV category	In-the-money	Out-of-the-money	Total
≤80	3,956,403	898,760	4,855,163
>80	138,948	112,069	251,017
Total	4,095,351	1,010,829	5,106,180

Post-June 2009

LTV category	In-the-money	Out-of-the-money	Total
≤80	3,562,422	14,859,748	18,422,170
>80	505,583	1,896,654	2,402,237
Total	4,068,005	16,756,402	20,824,407

Sources: CoreLogic Prime Servicing as of October 2016 and Urban Institute.

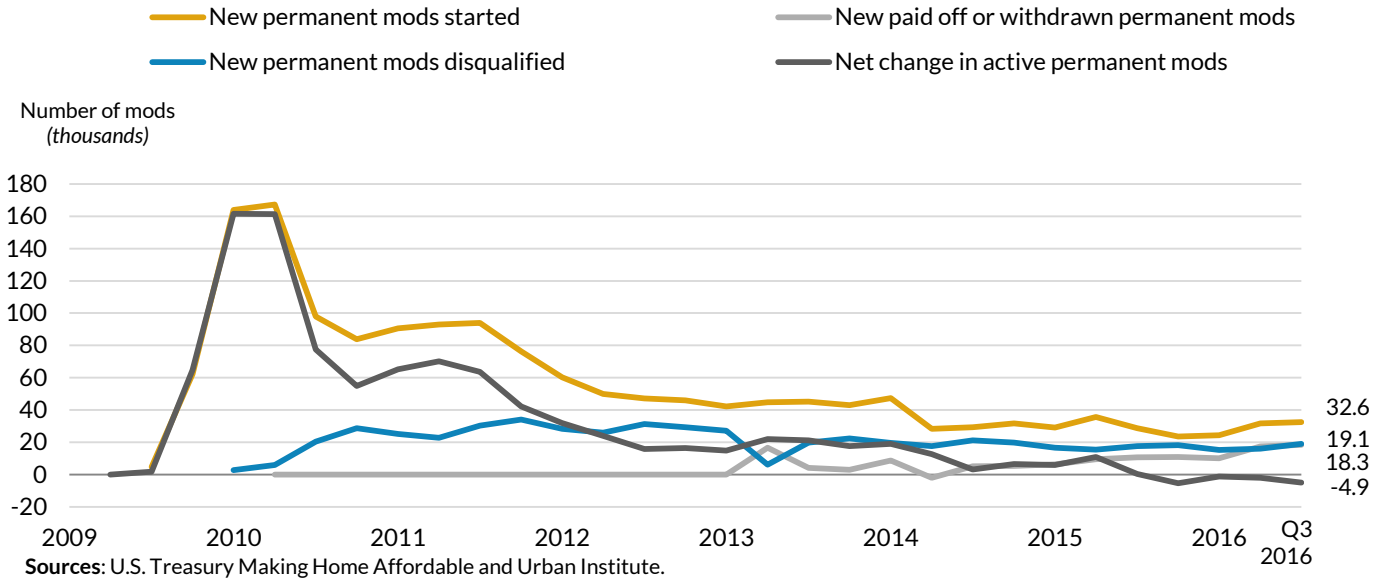
Note: Figures are scaled up from source data to account for data coverage of the GSE active loan market (based on MBS data from eMBS). Shaded box indicates HARP-eligible loans that are in-the-money. The November PMMS rate of 3.77 percent was used to calculate this table.

MODIFICATION ACTIVITY

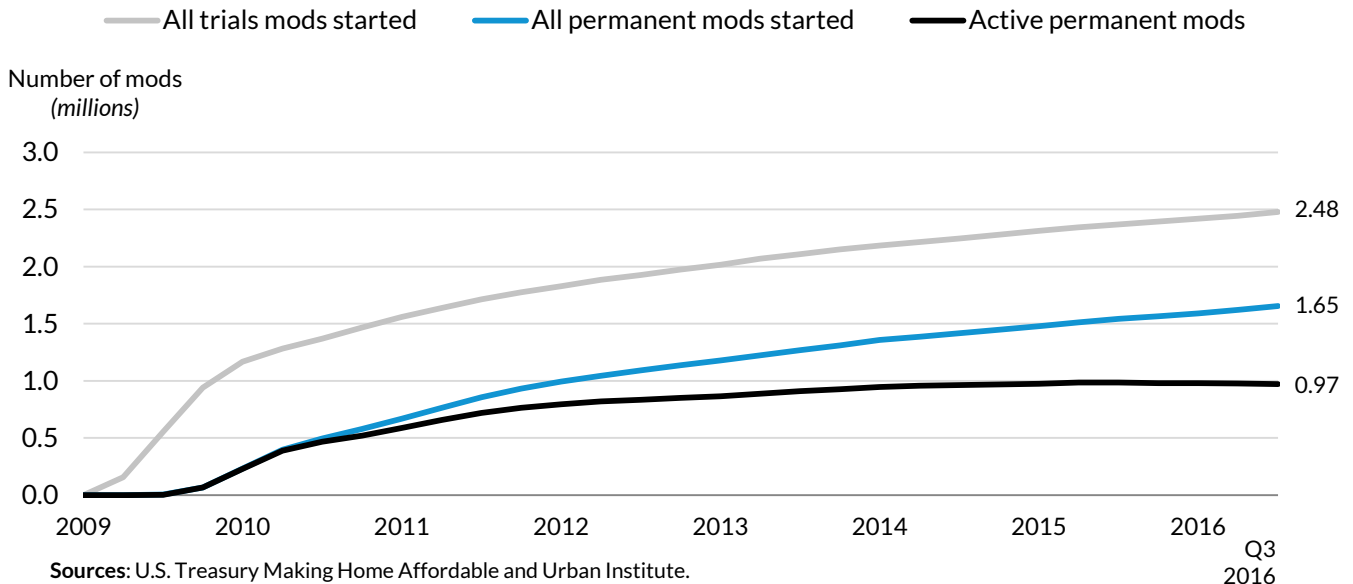
HAMP ACTIVITY

In Q3 2016, the number of active permanent modifications continued to fall by 4,870 mortgages, the third consecutive quarter with a decline since Q4 2015. There are three factors behind this change: Fewer new permanent modifications were made, some modifications failed because the borrowers did not make their payments, and a small number of borrowers either paid off their mortgage or withdrew their application. As a result, active permanent mods declined to 0.97 million.

New HAMP Modifications



Cumulative HAMP Modifications



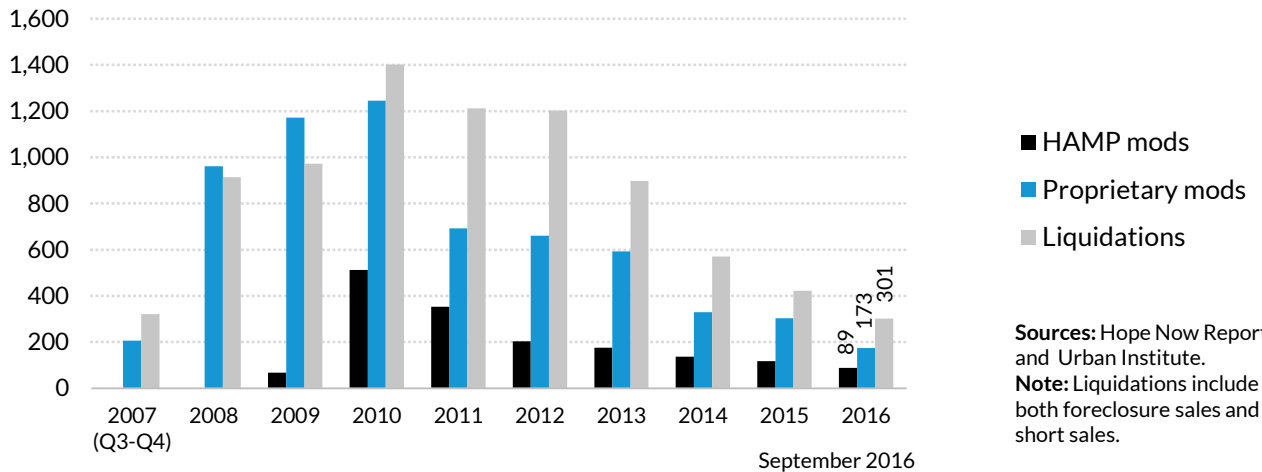
MODIFICATION ACTIVITY

MODIFICATIONS AND LIQUIDATIONS

Total modifications (HAMP and proprietary) are now roughly equal to total liquidations. Hope Now reports show 7,992,774 borrowers have received a modification since Q3 2007, compared with 8,216,855 liquidations in the same period. Averaging 32,307 modifications per month in the first nine months of 2016, modification activity slowed significantly over the past few years. Liquidations have also continued to decline, averaging 33,455 per month in the first eight months of 2016 compared to 36,552 per month in the same period a year ago.

Loan Modifications and Liquidations

Number of loans (thousands)

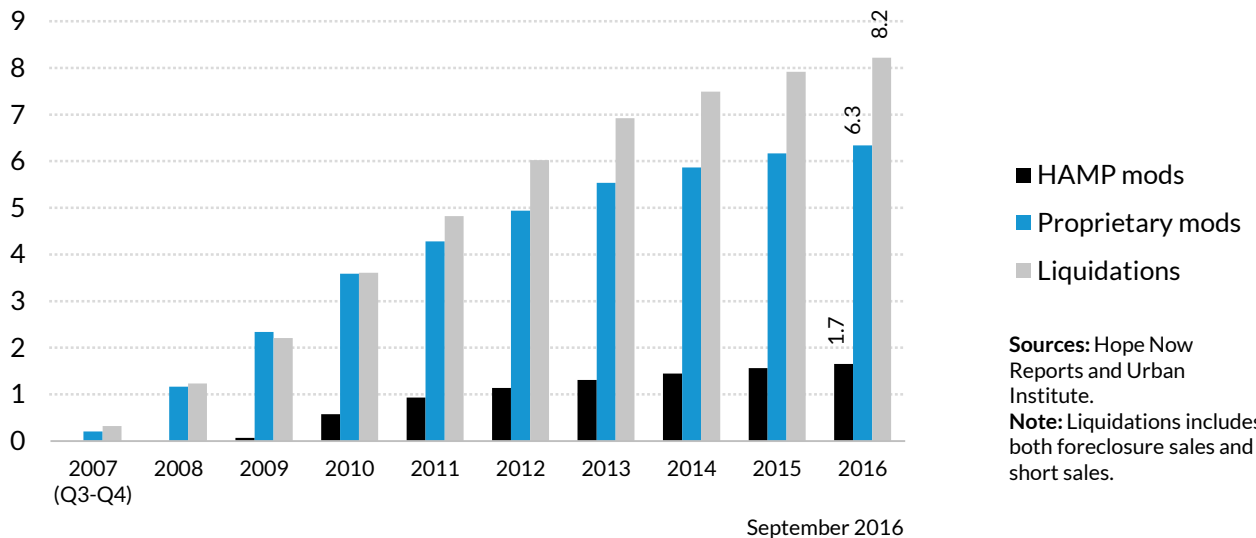


- HAMP mods
- Proprietary mods
- Liquidations

Sources: Hope Now Reports and Urban Institute.
 Note: Liquidations include both foreclosure sales and short sales.

Cumulative Modifications and Liquidations

Number of loans (millions)



- HAMP mods
- Proprietary mods
- Liquidations

Sources: Hope Now Reports and Urban Institute.
 Note: Liquidations includes both foreclosure sales and short sales.

AGENCY ISSUANCE

AGENCY GROSS AND

NET ISSUANCE

Agency issuance totaled \$1,339.7 billion in first eleven months of 2016, slightly up from \$1,189.2 billion for the same period a year ago. In November 2016, refinances stayed high at 63 and 44 percent of the GSEs' and Ginnie Mae's business, respectively, reflecting low mortgage rates in previous months. The interest rates have gone up sharply since the Election Day, which we expect will cut refinance activity. The delayed impact on agency issuance will show up in next few months.

Agency Gross Issuance

Issuance Year	GSEs	Ginnie Mae	Total
2000	\$360.6	\$102.2	\$462.8
2001	\$885.1	\$171.5	\$1,056.6
2002	\$1,238.9	\$169.0	\$1,407.9
2003	\$1,874.9	\$213.1	\$2,088.0
2004	\$872.6	\$119.2	\$991.9
2005	\$894.0	\$81.4	\$975.3
2006	\$853.0	\$76.7	\$929.7
2007	\$1,066.2	\$94.9	\$1,161.1
2008	\$911.4	\$267.6	\$1,179.0
2009	\$1,280.0	\$451.3	\$1,731.3
2010	\$1,003.5	\$390.7	\$1,394.3
2011	\$879.3	\$315.3	\$1,194.7
2012	\$1,288.8	\$405.0	\$1,693.8
2013	\$1,176.6	\$393.6	\$1,570.1
2014	\$650.9	\$296.3	\$947.2
2015	\$845.7	\$436.3	\$1,282.0
2016 YTD	\$878.3	\$461.4	\$1,339.7
%Change year-over-year	12.1%	13.7%	12.7%
2016 Ann.	\$958.2	\$503.4	\$1,461.5

Agency Net Issuance

Issuance Year	GSEs	Ginnie Mae	Total
2000	\$159.8	\$29.3	\$189.1
2001	\$367.8	-\$9.9	\$357.9
2002	\$357.6	-\$51.2	\$306.4
2003	\$335.0	-\$77.6	\$257.4
2004	\$83.3	-\$40.1	\$43.2
2005	\$174.4	-\$42.2	\$132.1
2006	\$313.6	\$0.3	\$313.8
2007	\$514.7	\$30.9	\$545.5
2008	\$314.3	\$196.4	\$510.7
2009	\$249.5	\$257.4	\$506.8
2010	-\$305.5	\$198.2	-\$107.3
2011	-\$133.4	\$149.4	\$16.0
2012	-\$46.5	\$118.4	\$71.9
2013	\$66.5	\$85.8	\$152.3
2014	\$30.3	\$59.8	\$90.1
2015	\$75.0	\$94.5	\$169.5
2016 YTD	\$102.0	\$114.4	\$216.4
%Change year-over-year	57.5%	31.7%	42.7%
2016 Ann.	\$111.3	\$124.8	\$236.1

Sources: eMBS and Urban Institute.

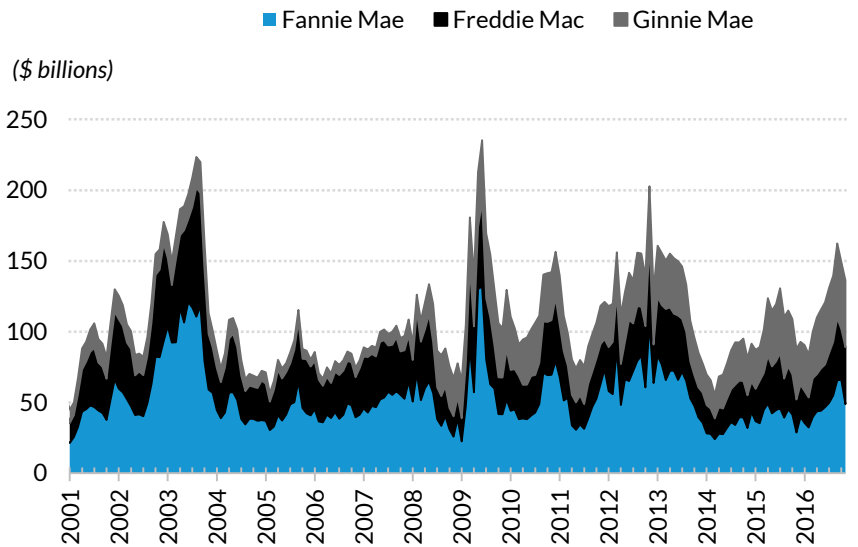
Note: Dollar amounts are in billions. Annualized figure based on data from November 2016.

AGENCY ISSUANCE

AGENCY GROSS ISSUANCE & FED PURCHASES

Monthly Gross Issuance

While government and GSE lending have dominated the mortgage market since the crisis, there has been a change in the mix. The Ginnie Mae share reached a peak of 28 percent of total agency issuance in 2010, declined to 25 percent in 2013, and has bounced back sharply since then. The Ginnie Mae issuance stood at 35 percent in November 2016, driven by the surge in FHA refinance activity with the reduction in the FHA insurance premium, and increased VA volumes. The sharp interest rate increase since the Election Day is expected to drive the Ginnie Mae share even higher, since 38 percent of Ginnie Mae's volume were refinance in 2016, compared to GSEs' 55 percent.

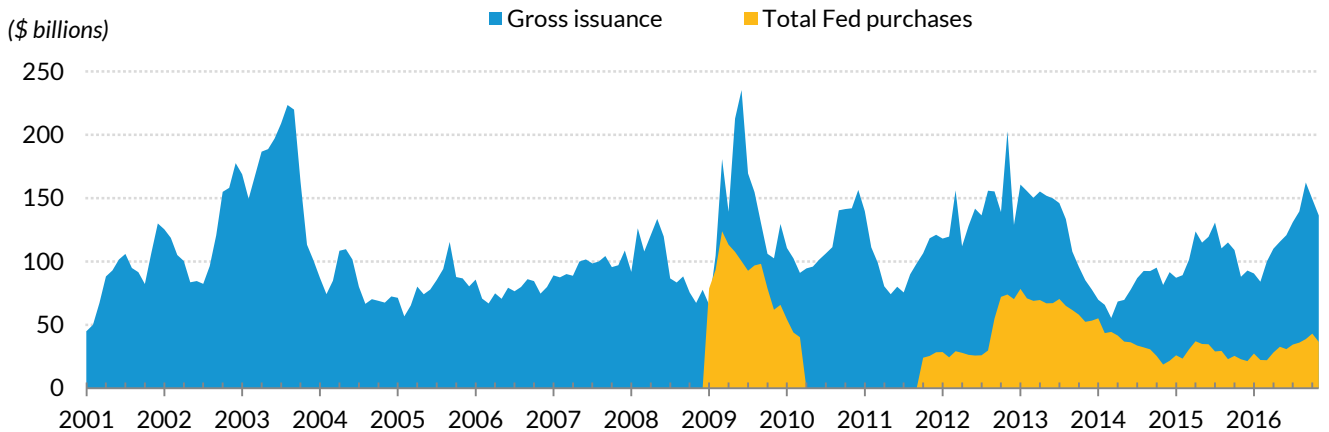


November 2016

Sources: eMBS, Federal Reserve Bank of New York, and Urban Institute.

Fed Absorption of Agency Gross Issuance

In October 2014, the Fed ended its purchase program, but continued buying at a much reduced level, reinvesting funds from pay downs on mortgages and agency debentures into the mortgage market. Since then, the Fed's absorption of gross issuance has been between 20 and 30 percent. In November 2016, total Fed purchase declined to \$36.5 billion while agency gross issuance fell slightly to \$136.3 billion, yielding Fed absorption of gross issuance of 26.8 percent, down from 28.8 percent last month.



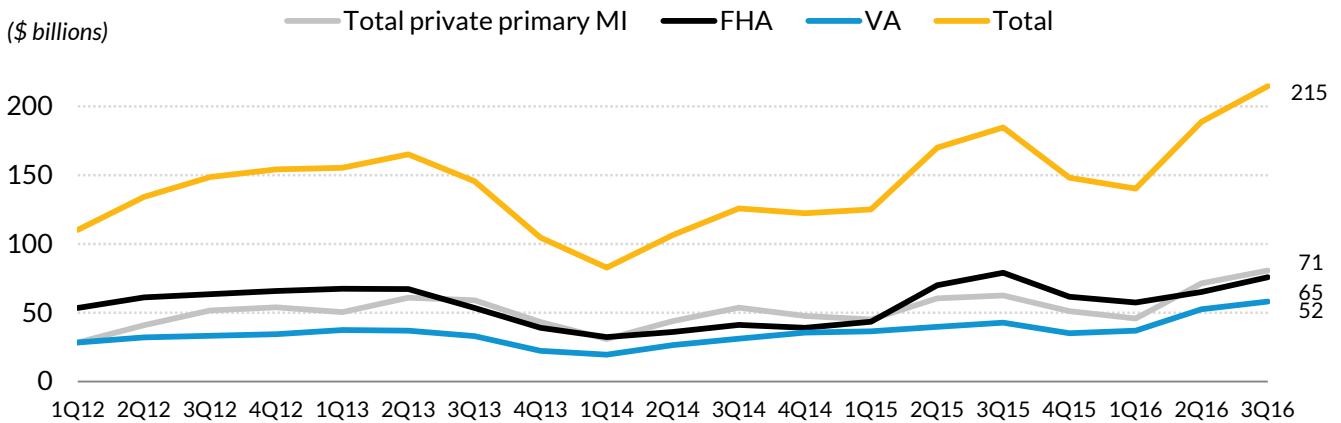
November 2016

Sources: eMBS, Federal Reserve Bank of New York and Urban Institute.

AGENCY ISSUANCE MORTGAGE INSURANCE ACTIVITY

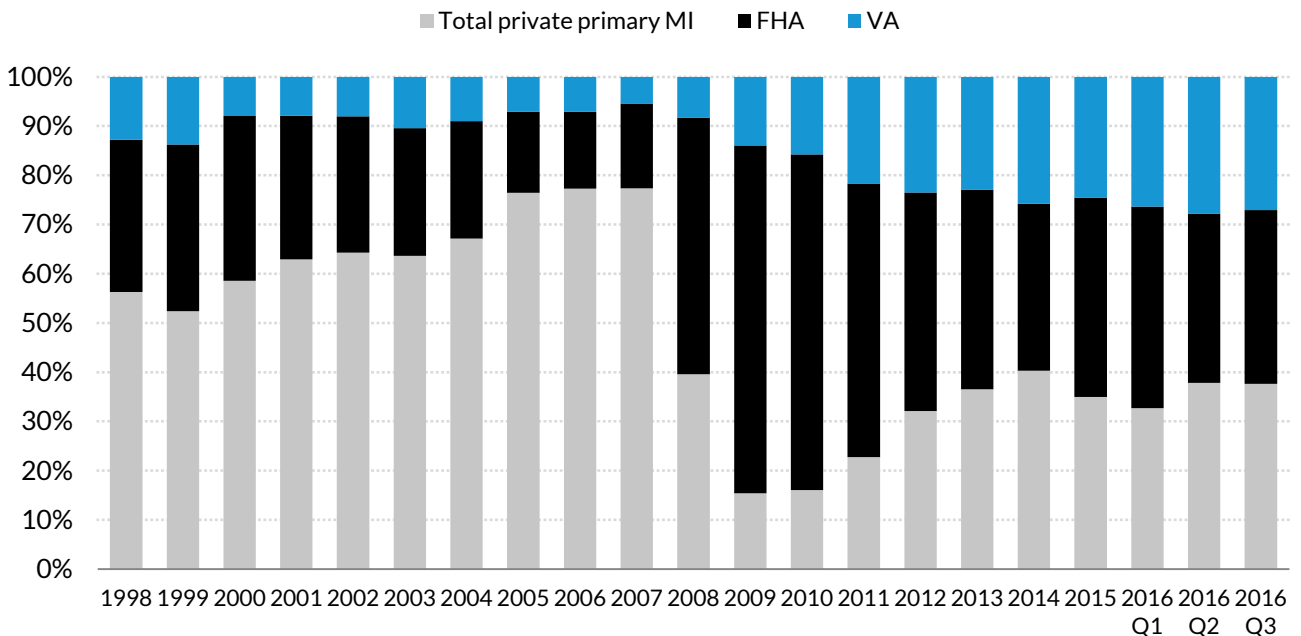
MI Activity

In Q3 2016, mortgage insurance activity via the FHA, VA and private insurers rose significantly to \$215 billion, up from last quarter's \$189 billion and up 11 percent year-over-year from the same quarter in 2015. FHA's Q3 2016 market share (35 percent) remained largely unchanged from last quarter, and the private insurance market's share remained steady as well (38 percent).



Sources: Inside Mortgage Finance and Urban Institute.

MI Market Share



Sources: Inside Mortgage Finance and Urban Institute.

AGENCY ISSUANCE MORTGAGE INSURANCE ACTIVITY

FHA premiums rose significantly in the years following the housing crash, with annual premiums rising 170% from 2008 to 2013 as FHA worked to shore up its finances. In January 2015, President Obama announced a 50 bps cut in the annual insurance premiums, making FHA mortgages more attractive than GSE mortgages for both low and high credit score borrowers. The April 2016 reduction in PMI rates for borrowers with higher FICO scores has partially offset that. As shown in the bottom table, a borrower putting 3.5% down will now find FHA more economical regardless of their FICO score, though the monthly payment advantage is smaller for borrowers with higher FICO scores.

FHA MI Premiums for Typical Purchase Loan

Case number date	Upfront mortgage insurance premium (UFMIP) paid	Annual mortgage insurance premium (MIP)
1/1/2001 - 7/13/2008	150	50
7/14/2008 - 4/5/2010*	175	55
4/5/2010 - 10/3/2010	225	55
10/4/2010 - 4/17/2011	100	90
4/18/2011 - 4/8/2012	100	115
4/9/2012 - 6/10/2012	175	125
6/11/2012 - 3/31/2013 ^a	175	125
4/1/2013 - 1/25/2015 ^b	175	135
Beginning 1/26/2015 ^c	175	85

Sources: Ginnie Mae and Urban Institute.

Note: A typical purchase loan has an LTV over 95 and a loan term longer than 15 years. Mortgage insurance premiums are listed in basis points.

* For a short period in 2008 the FHA used a risk based FICO/LTV matrix for MI.

^a Applies to purchase loans less than or equal to \$625,500. Those over that amount have an annual premium of 150 bps.

^b Applies to purchase loans less than or equal to \$625,500. Those over that amount have an annual premium of 155 bps.

^c Applies to purchase loans less than or equal to \$625,500. Those over that amount have an annual premium of 105 bps.

Initial Monthly Payment Comparison: FHA vs. PMI

Assumptions	
Property Value	\$250,000
Loan Amount	\$241,250
LTV	96.5
Base Rate	
Conforming	4.10%
FHA	3.50%

FICO	620 - 639	640 - 659	660 - 679	680 - 699	700 - 719	720 - 739	740 - 759	760 +
FHA MI Premiums								
FHA UFMIP	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
FHA MIP	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
PMI								
GSE LLPA*	3.50	2.75	2.25	1.50	1.50	1.00	0.75	0.75
PMI Annual MIP	2.25	2.05	1.90	1.40	1.15	0.95	0.75	0.55
Monthly Payment								
FHA	\$1,273	\$1,273	\$1,273	\$1,273	\$1,273	\$1,273	\$1,273	\$1,273
PMI	\$1,718	\$1,656	\$1,611	\$1,489	\$1,439	\$1,384	\$1,337	\$1,297
PMI Advantage	(\$445)	(\$383)	(\$338)	(\$216)	(\$166)	(\$111)	(\$64)	(\$24)

Sources: Genworth Mortgage Insurance, Ginnie Mae and Urban Institute.

Note: Mortgage insurance premiums listed in percentage points. Grey shade indicates FHA monthly payment is more favorable, while light blue indicates PMI is more favorable. The PMI monthly payment calculation does not include special programs like Fannie Mae's HomeReady and Freddie Mac's Home Possible (HP), both offer more favorable rates for low- to moderate-income borrowers.

LLPA= Loan Level Price Adjustment, described in detail on page 21.

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