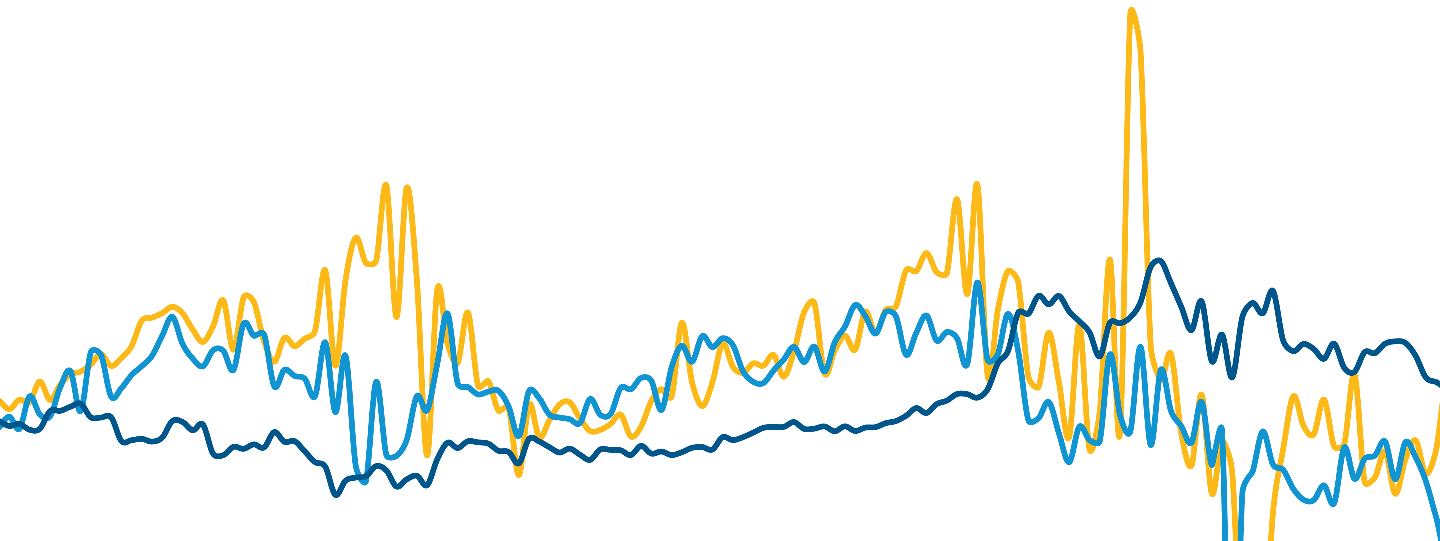
HOUSING FINANCE POLICY CENTER



HOUSING FINANCE AT A GLANCE

A MONTHLY CHARTBOOK

June 2016

URBAN INSTITUTE · ELEVATE · THE · DEBATE

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.

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INTRODUCTION

Wells Fargo and Chase announce new low down payment mortgage programs

Following Bank of America's February announcement of a new low down payment mortgage program (the Affordable Loan Solution, or ALS), both Wells Fargo and Chase recently announced similar programs (called *yourFirstMortgage* and *Standard Agency 97%* respectively). Like Bank of America's ALS, these new programs are targeted at first-time homebuyers and low- and moderate- income borrowers who may lack sufficient funds for a down payment or have lower credit scores. Accordingly, all three programs have lower minimum score requirements – 660 (BofA), 620 (Wells) and 680 (Chase). Additional borrower friendly features include the ability to combine down payments with gifts and grants, homebuyer counseling, consideration of non-traditional forms of credit, and no private mortgage insurance under BofA's ALS. Wells' *yourFirstMortgage* offers loan options that can work with or without PMI. Wells Fargo and BofA intend to sell their loans to Fannie Mae and Freddie Mac respectively, with Self-Help stepping in to provide first-loss risk coverage in lieu private mortgage insurance. Less is known about first loss risk coverage for Chase's *Standard Agency 97%* except that the loans will be sold to Fannie Mae. It is also not clear whether PMI alternatives are available.

Despite being targeted at same borrower segments, there are key differences between BofA's and Wells Fargo's approaches. Wells Fargo's *yourFirstMortgage* consolidates multiple low down payment programs available in the secondary market, into a single primary market offering. This could reduce complexity by allowing borrowers and their agents to more easily compare conventional loan options to FHA without having to wade through a thicket of loan programs. Once qualified, Wells would determine the best back-end program for selling the loan into the secondary market, with or without Self-Help's first loss coverage (loans without Self-Help coverage require PMI). BofA's ALS, in contrast is a narrower offering dependent on Self-Help's first loss coverage, which is limited by the amount of capital Self-Help can devote to the program, likely constraining scope.

There are other differences too. BofA intends to sell servicing of all ALS loans to a specialty servicer, retaining neither any interest nor any risk in the loan post-origination. Wells Fargo on the other hand, intends to retain servicing in house, suggesting more skin in the game and a vested financial interest in the long term success of the program. Lastly, Wells offers borrowers a 1/8th percent rate reduction as an incentive for completing homebuyer education. BofA's ALS requires mandatory counseling for all first time homebuyers. Chase also offers counseling.

All three programs are welcome attempts to create new lending channels to ease credit availability for LMI borrowers and first time homebuyers. These programs are also being seen as lender attempts to bypass the FHA and its heavy enforcement hammer. But as we have noted before, these programs are unlikely to offer meaningful substitutes for healthy FHA lending: the primary obstacle being FHA's huge price advantage over the GSEs (see page 33), especially at the lower end of the credit spectrum. Although Wells Fargo's 1/8th percent rate incentive will make its pricing little more competitive with FHA, the overall universe of borrowers that can save money through these programs will likely be small – mostly clustered around the FHA/GSE breakeven line.

INSIDE THIS ISSUE

- The total value of the US Housing Market continued to rise, driven by a $487 billion increase in household equity (page 6)
- Ginnie Mae outstanding MBS securities surpassed Freddie Mac for the first time in May (page 7)
- Portfolio accounted for a larger share of first lien originations in Q1 2016 (Page 8)
- First-time homebuyer share continued to rise in March (page 17)
- Loans in serious delinquency/foreclosure declined to 3.3 percent in Q1 2016 (page 19)
- Active permanent HAMP mods declined for second straight quarter in Q1 2016 (page 28)

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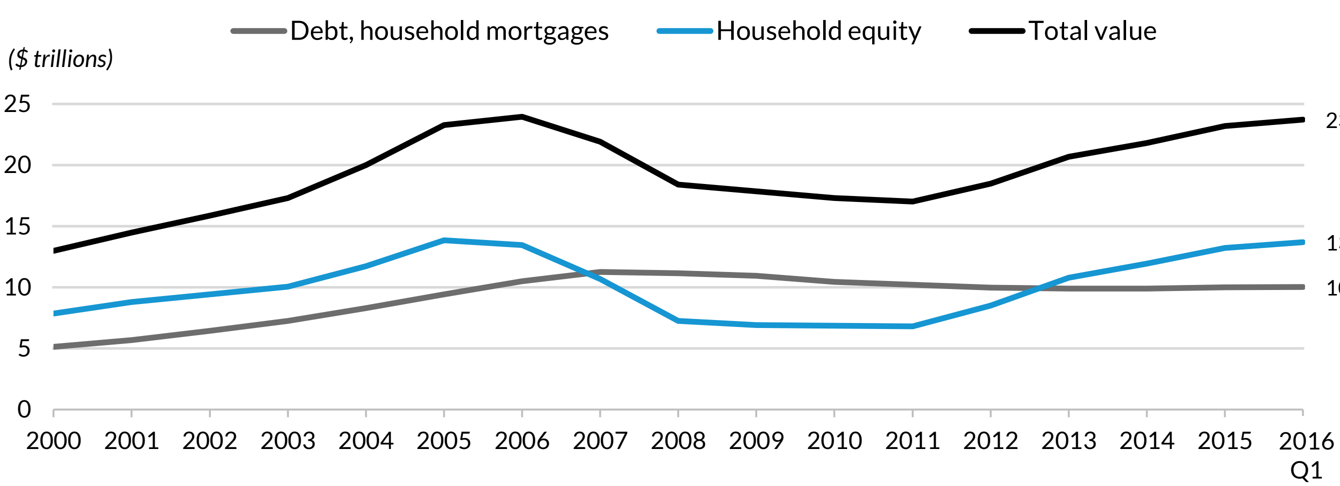
MARKET SIZE OVERVIEW

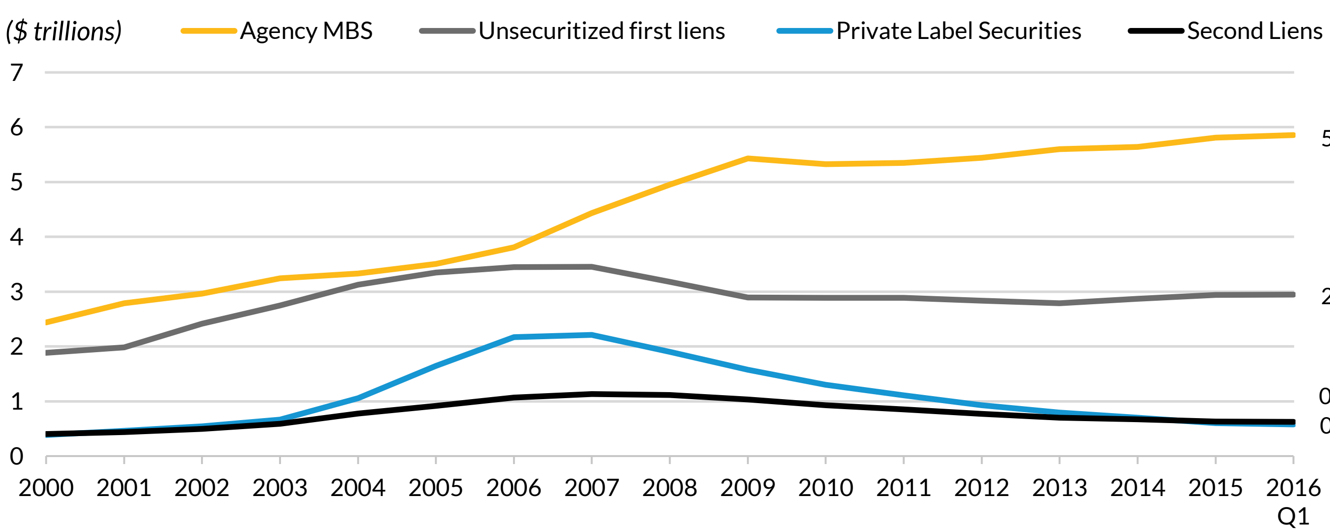
The Federal Reserve's Flow of Funds report has consistently indicated an increasing total value of the housing market driven by growing household equity since 2012, and the trend continued according to the latest data, covering Q1 2016. Total debt and mortgages increased slightly to $10.01 trillion, while household equity increased to $13.70 trillion, bringing the total value of the housing market to $23.71 trillion. Agency MBS make up 58.5 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 29.4 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



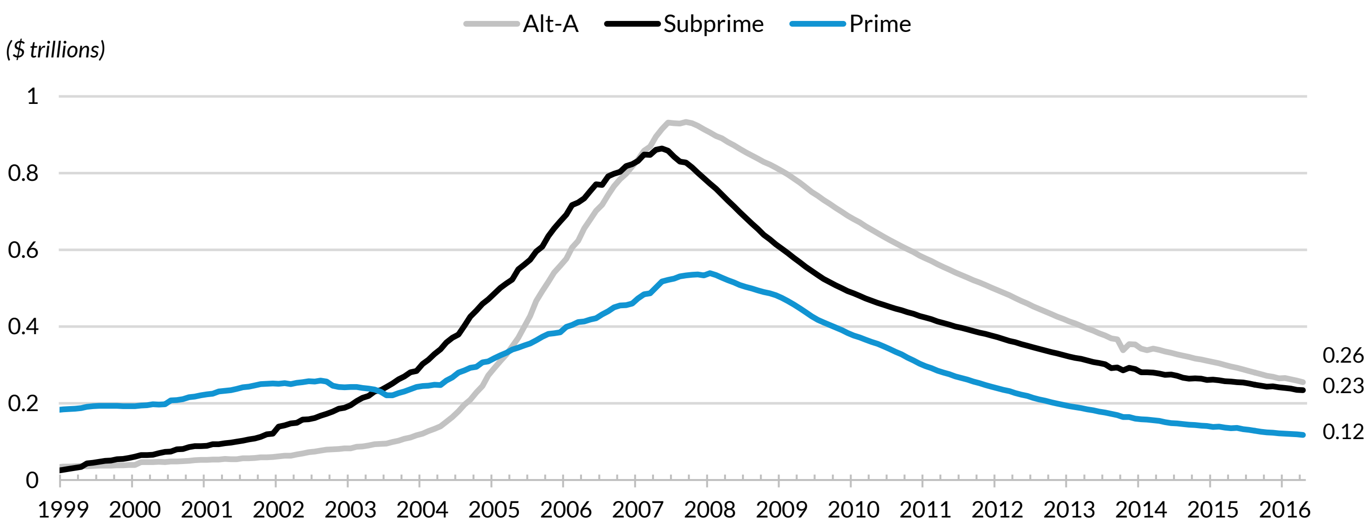
Sources: Federal Reserve Flow of Funds, Inside Mortgage Finance, Fannie Mae, Freddie Mac, eMBS and Urban Institute.
Note: Unsecuritized first liens includes loans held by commercial banks, GSEs, savings institutions, and credit unions.

OVERVIEW

MARKET SIZE OVERVIEW

As of April 2016, debt in the private-label securitization market totaled $606 billion and was split among prime (19.3 percent), Alt-A (42.1 percent), and subprime (38.6 percent) loans. In May 2016, outstanding securities in the agency market totaled $5.89 trillion and were 44.9 percent Fannie Mae, 27.6 percent Freddie Mac, and 27.6 percent Ginnie Mae. May 2016 is the first month Ginnie Mae has had more outstanding securities than Freddie Mac.

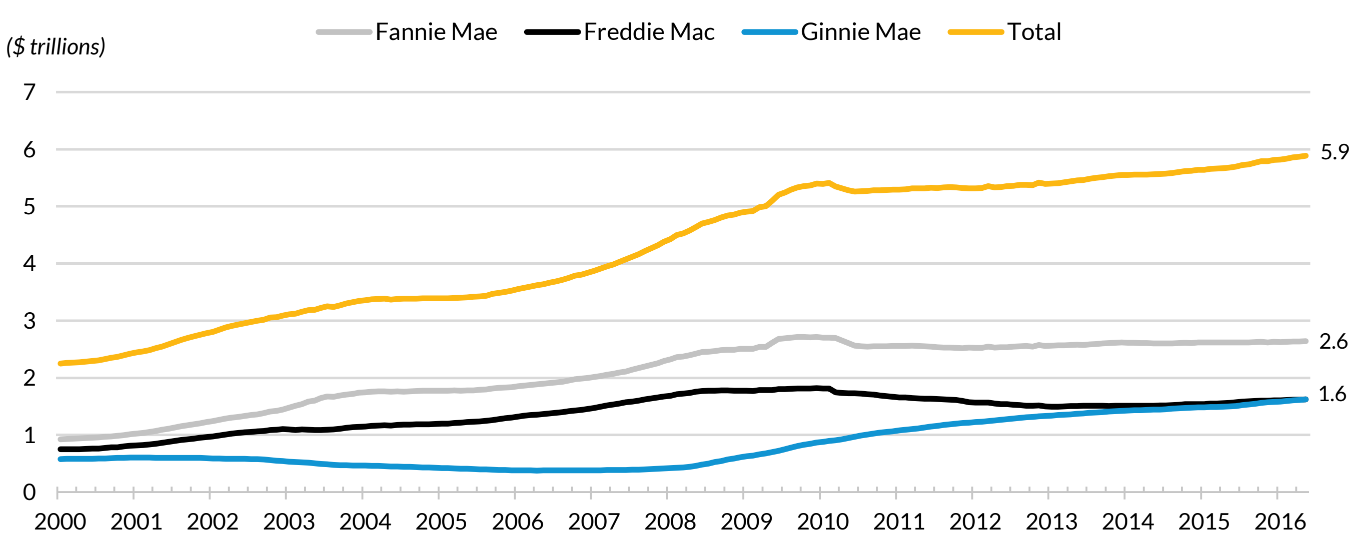
Private-Label Securities by Product Type



Sources: CoreLogic and Urban Institute.

April 2016

Agency Mortgage-Backed Securities



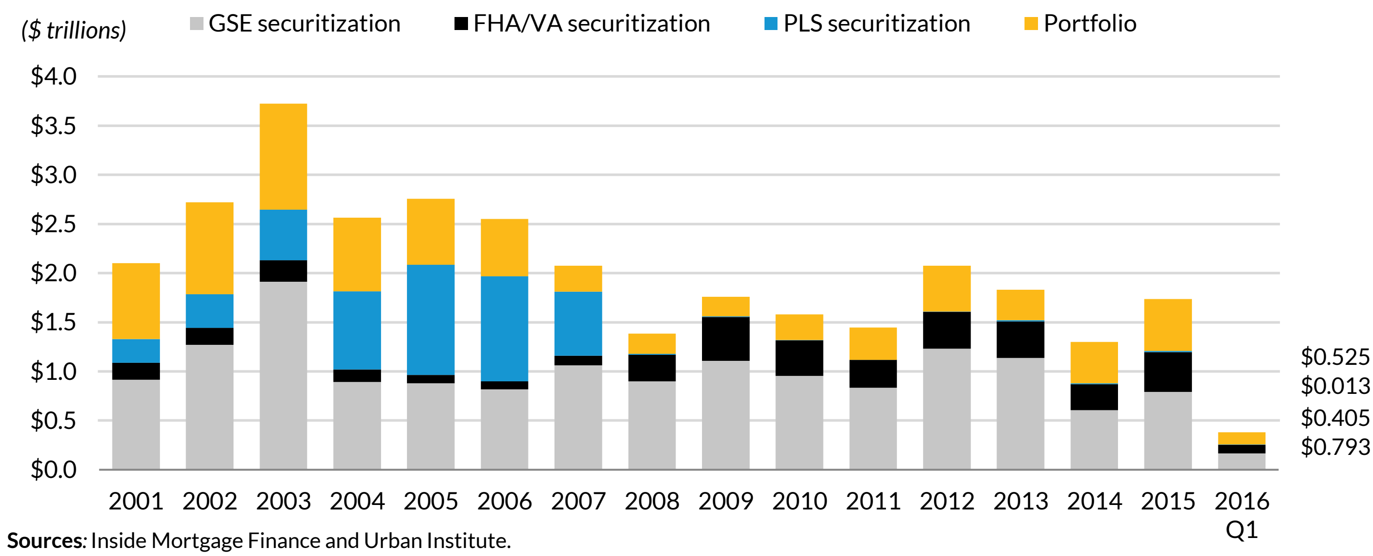
May 2016

Sources: eMBS and Urban Institute.

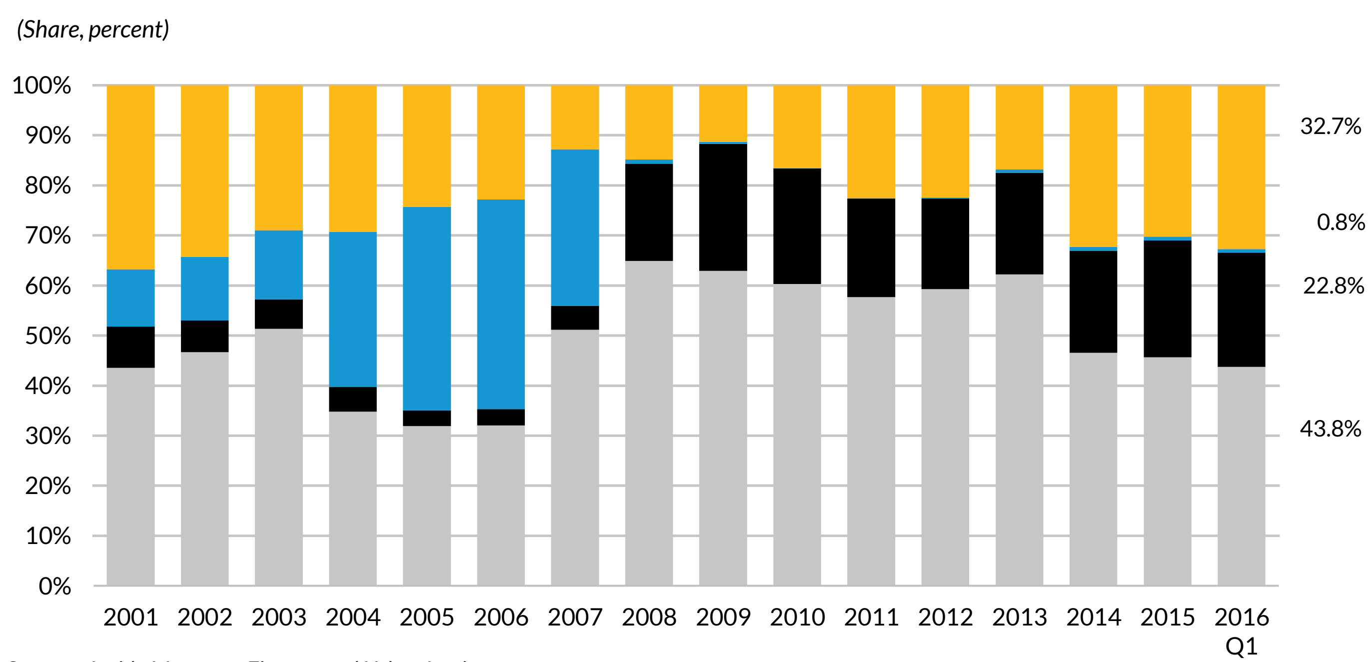
ORIGINATION VOLUME AND COMPOSITION

First Lien Origination Volume

First lien originations in the first quarter of 2016 totaled approximately $380 billion. The share of portfolio originations rose to 33 percent, while the GSE share dropped to 44 percent from 46 in 2015. With credit risk so benign, and g-fess relatively high, banks are willing to hold more of the risk. FHA/VA originations account for another 23 percent, and the private label originations account for 0.8 percent.



Sources: Inside Mortgage Finance and Urban Institute.



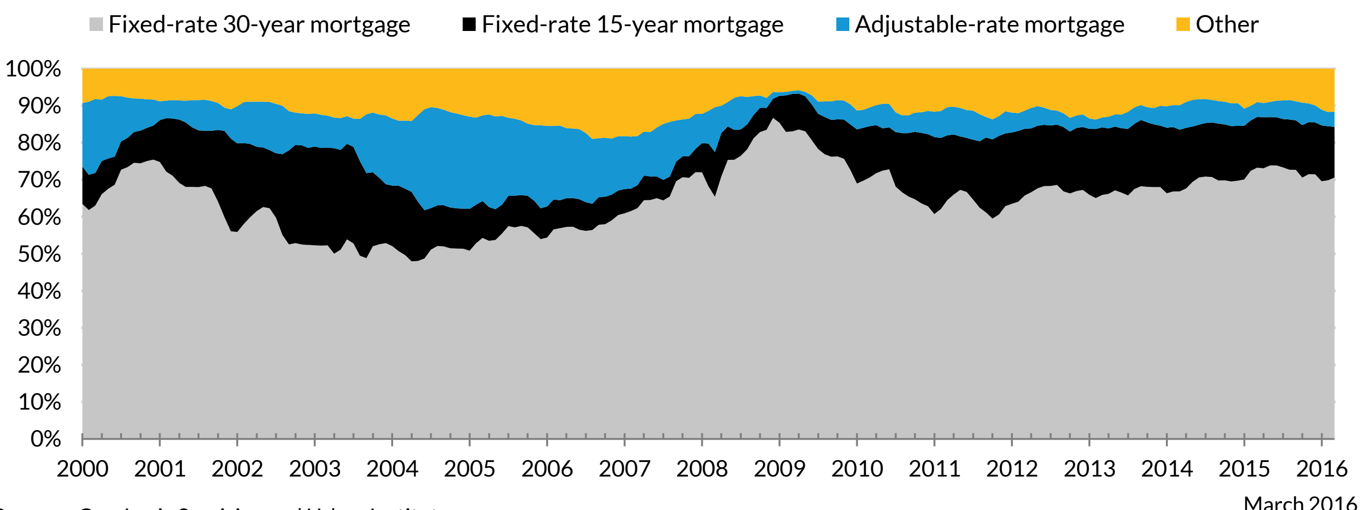
Sources: Inside Mortgage Finance and Urban Institute.

OVERVIEW

MORTGAGE ORIGINATION PRODUCT TYPE

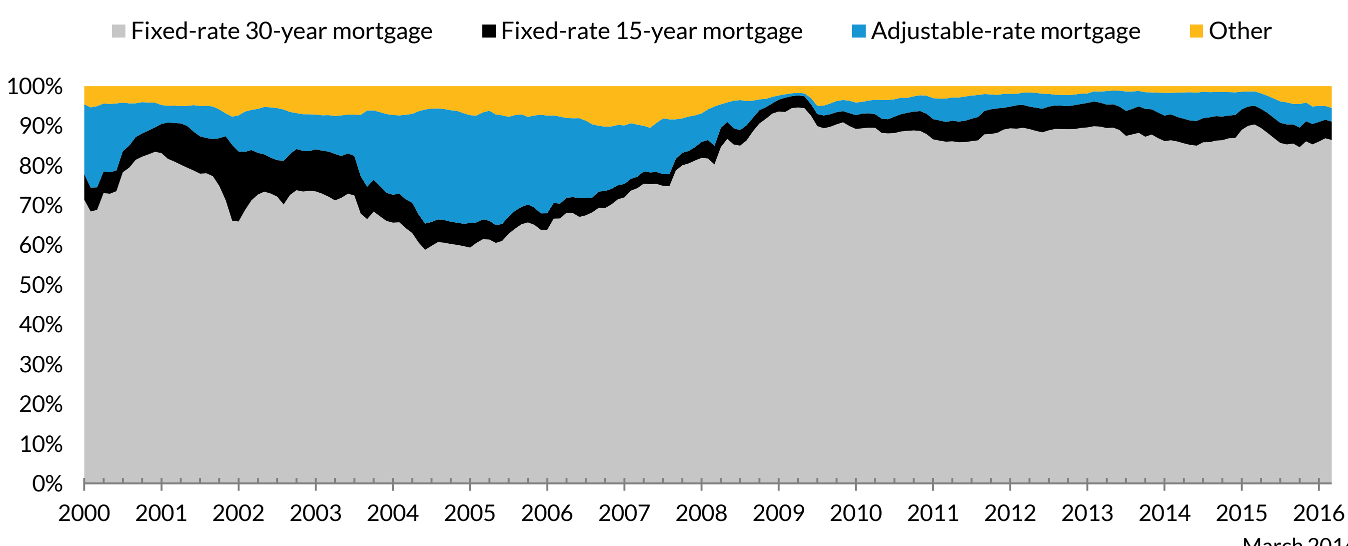
Adjustable-rate mortgages (ARMs) accounted for as much as 27 percent of all new originations during the peak of the recent housing bubble in 2004 (top chart). They fell to a historic low of 1 percent in 2009, and then slowly grew to a high of 7.2 percent in May 2014. Since then they began to decline again to 4.1 percent of total originations in March 2016. 15-year fixed-rate mortgages (FRMs), predominantly a refinance product, comprise 13.7 percent of new originations. If we exclude refinances (bottom chart), the share of 30-year FRMs in March 2016 stood at 86.5 percent, 15-year FRMs at 4.6 percent, and ARMs at 3.4 percent.

All Originations



Sources: CoreLogic Servicing and Urban Institute.

Purchase Loans Only



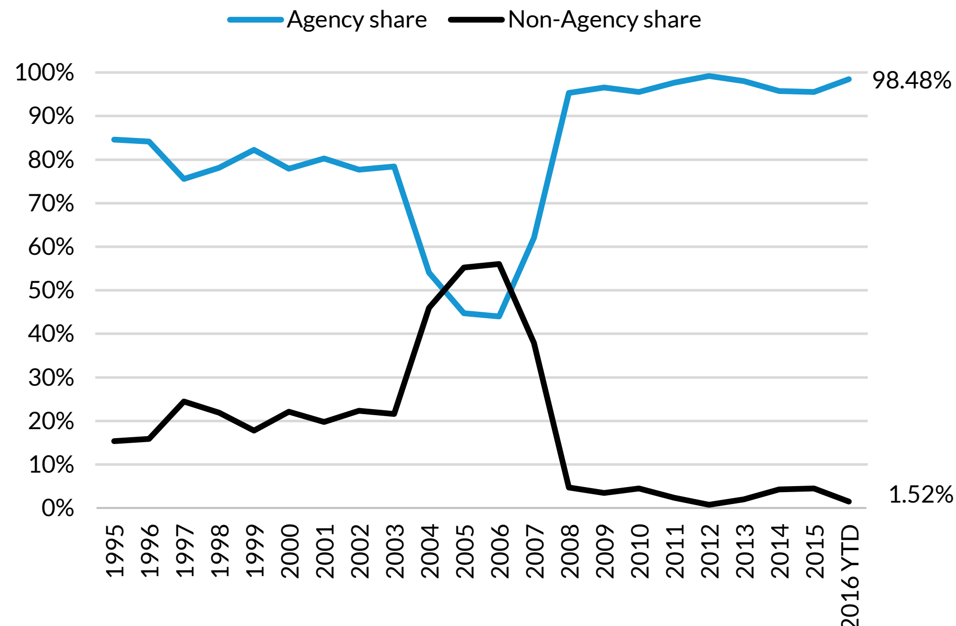
Sources: CoreLogic Servicing and Urban Institute.

OVERVIEW

SECURITIZATION VOLUME AND COMPOSITION

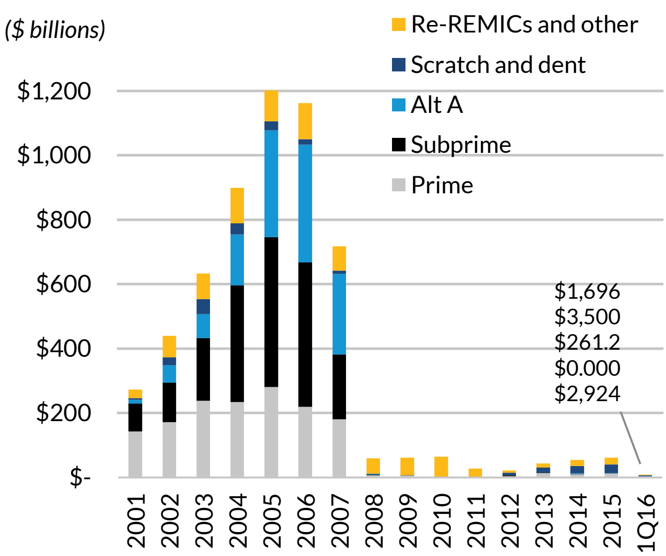
Agency/Non-Agency Share of Residential MBS Issuance

The non-agency share of mortgage securitizations in first four months of 2016 is 1.52%, compared to 4.5% in 2015 and 4.3% in 2014. The volume of prime securitizations in the first quarter of 2016 totaled $2.92 billion, representing a decline of $1.68 billion compared to the first quarter of 2015. However, both are tiny compared to pre-crises levels. To put this in perspective, in 2001, prime origination totaled $142 billion.



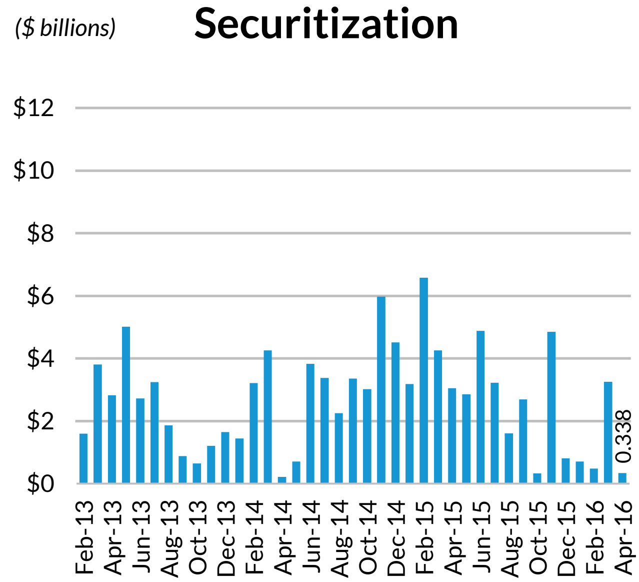
Sources: Inside Mortgage Finance and Urban Institute.
Note: Based on data from April 2016.

Non-Agency MBS Issuance



Sources: Inside Mortgage Finance and Urban Institute.

Monthly Non-Agency Securitization

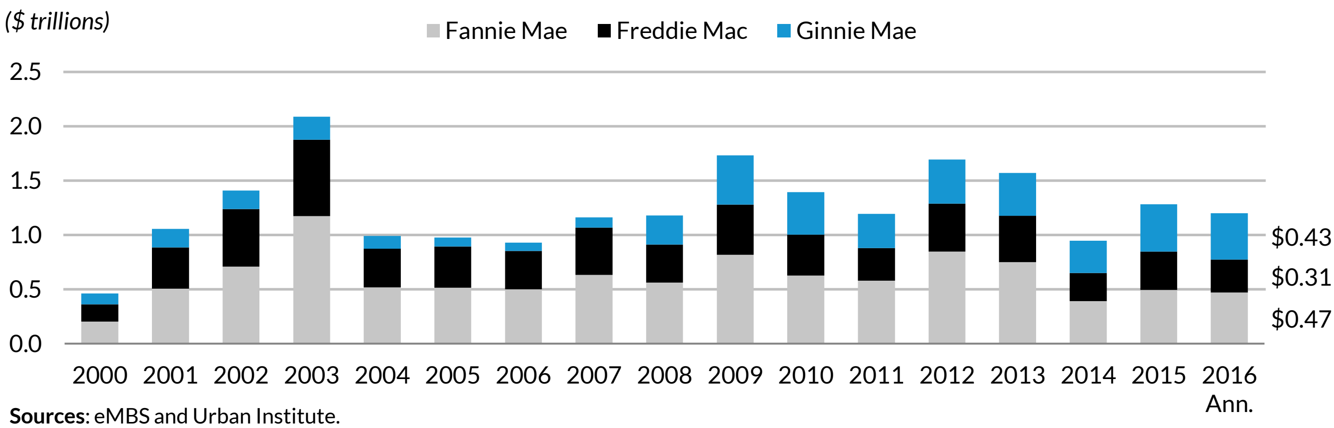


Sources: Inside Mortgage Finance and Urban Institute.
Note: Monthly figures equal total non-agency MBS issuance minus Re-REMIC issuance.

AGENCY ACTIVITY: VOLUMES AND PURCHASE/ REFI COMPOSITION

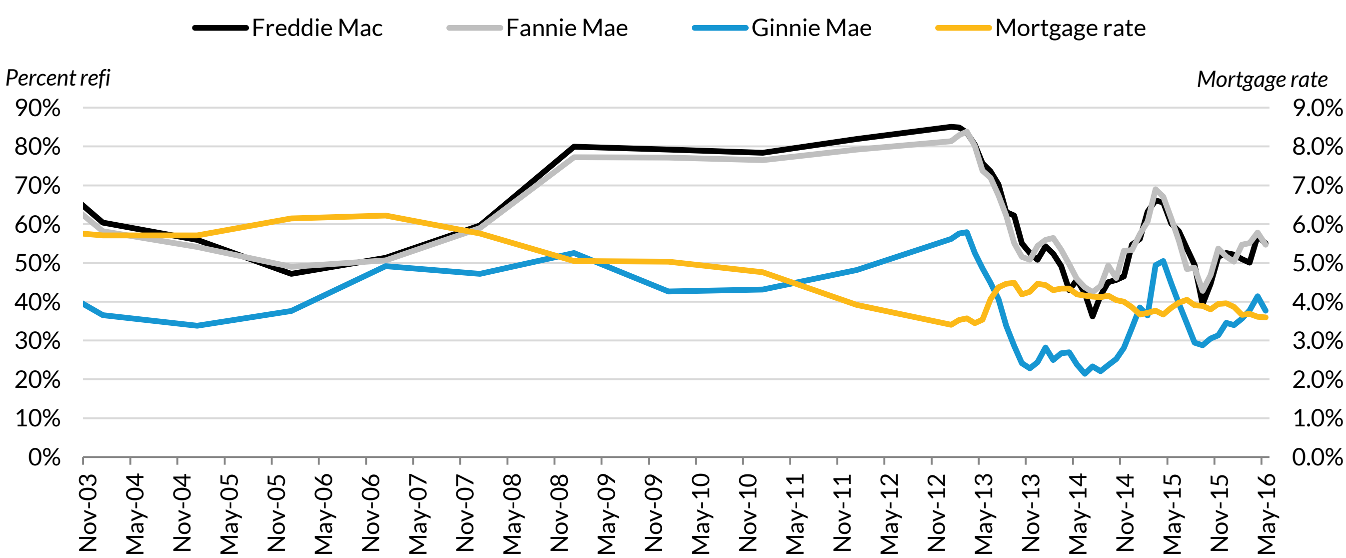
Agency issuance totaled $500.4 billion in first five months of 2016, slightly down from $516.6 billion for the same period a year ago. In May 2016, refinances stayed high at 55 percent of the Freddie Mac's and Fannie Mae's business, reflecting recent declines in mortgage rates. The GNMA response to interest rate changes since 2015, both increases and decreases, has been somewhat larger than the GSE response, due to the 50 bps cut in the FHA premium in January 2015. The Ginnie Mae refinance volume stood at 38 percent in May 2016, down since April 2015 but still high relative to the past two years.

Agency Gross Issuance



Sources: eMBS and Urban Institute.
Note: Annualized figure based on data from May 2016.

Percent Refi at Issuance



Sources: eMBS and Urban Institute.
Note: Based on at-issuance balance.

STATE OF THE MARKET

MORTGAGE ORIGINATION PROJECTIONS

Fannie Mae, Freddie Mac and MBA have all increased their predictions of origination volume for 2016. Fannie Mae and Freddie Mac anticipates a total of $1,648 billion and $1,725 of origination, respectively, while MBA predicts $1,608 billion. Similarly, they have also increased their estimates of refinance share, a reflection of lower interest rate projections for 2016. Fannie, Freddie and MBA all forecast housing starts and new home sales to be substantially higher in 2016 than in 2015.

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	353	360	350	49	52	47
2016 Q2	474	505	510	40	42	46
2016 Q3	441	450	420	35	38	31
2016 Q4	381	410	328	34	35	32
2017 Q1	308	380	295	39	27	34
2017Q2	396	400	380	29	25	26
2017Q3	393	350	390	27	23	24
2017 Q4	354	330	318	28	22	26
FY 2013	1866	1925	1845	60	59	60
FY 2014	1301	1350	1261	40	39	40
FY 2015	1711	1750	1630	46	48	46
FY 2016	1648	1725	1608	39	41	39
FY 2017	1451	1460	1383	30	24	27

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%, 4.2% and 3.9%, respectively. For 2016, Fannie Mae, Freddie Mac, and MBA project rates of 3.7%, 3.9%, and 3.9%, respectively. For 2017, their respective projections are 3.8%, 4.5%, 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	1107	5751	5750	5811	5237	574
FY 2016	1210	1270	1223	5930	5920	6141	5472	669
FY 2017	1355	1510	1359	6144	6160	6470	5768	702

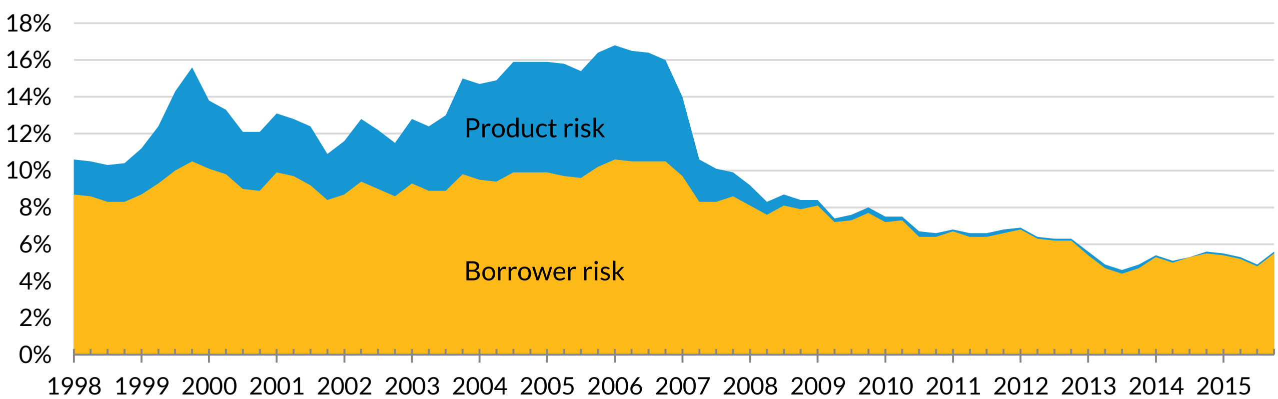
Sources: Mortgage Bankers Association, Fannie Mae, Freddie Mac and Urban Institute.
Note: Shaded boxes indicate forecasted figures. All figures are estimates for total single-family market; column labels indicate source of estimate.

STATE OF THE MARKET

CREDIT AVAILABILITY AND ORIGINATOR PROFITABILITY

Housing Credit Availability Index (HCAI)

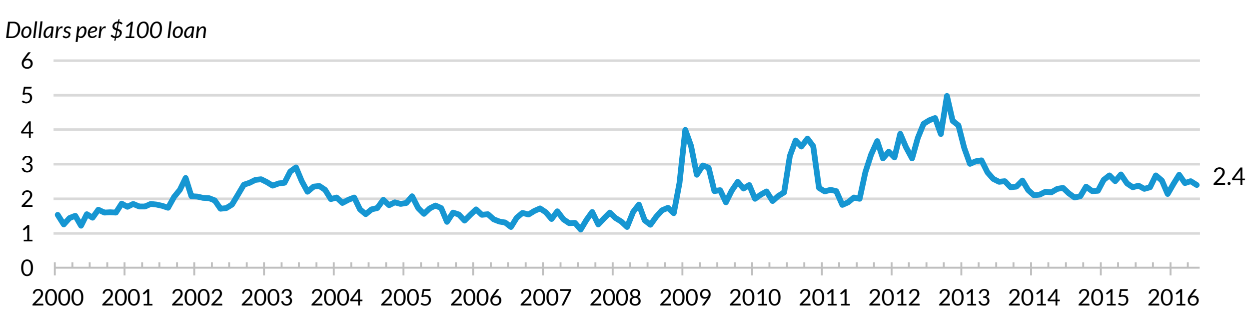
HFPC's Housing Credit Availability Index (HCAI) assesses lenders' tolerance for both borrower risk and product risk, calculating the percentage of owner-occupied purchase loans that are likely to default. The index shows that credit availability increased slightly to 5.6 percent in 2015 Q4, up from 4.9 percent in the previous quarter. It reverses the downward trend which has been running over the past four quarters. Despite the uptick, the measure is less than half of the 2001-2003 standard of 12.5 percent. More information about HCAI including the breakdown by market segment is available here.



Sources: eMBS, Federal Housing Administration (FHA) and the Urban Institute.
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. This measure was in the narrow range of 2.04 to 2.70 since 2014, and stood at 2.40 in May 2016.

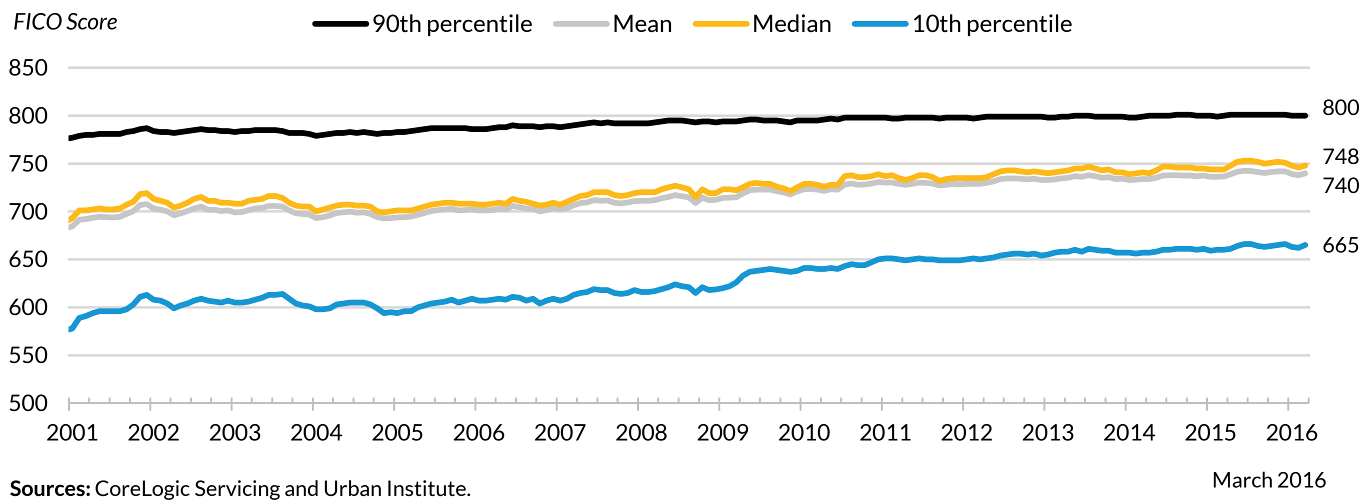


Sources: Federal Reserve Bank of New York, updated monthly and available at this link: http://www.ny.frb.org/research/epr/2013/1113fust.html and Urban Institute.
Note: OPUC stands for "originator profits and unmeasured costs" as discussed in Fuster et al. (2013). The OPUC series is a monthly (4-week moving) average.

CREDIT AVAILABILITY FOR PURCHASE LOANS

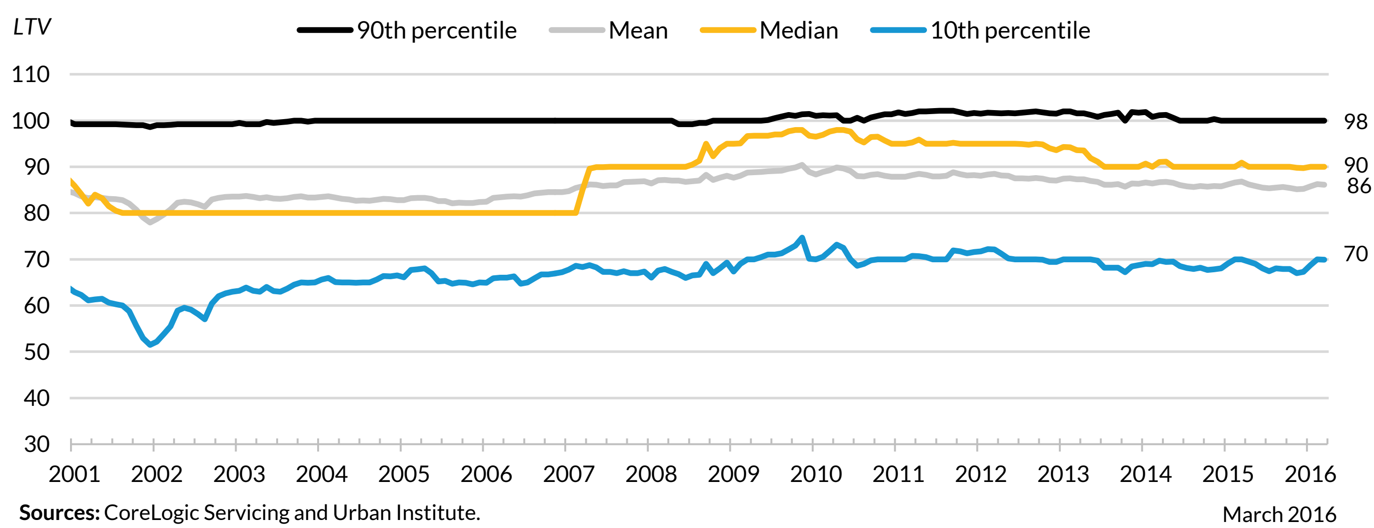
Access to credit has become extremely tight, especially for borrowers with low FICO scores. The mean and median FICO scores on new originations have both drifted up about 38 and 40 points over the last decade. The 10th percentile of FICO scores, which represents the lower bound of creditworthiness needed to qualify for a mortgage, stood at 665 as of March 2016. Prior to the housing crisis, this threshold held steady in the low 600s. LTV levels at origination remain relatively high, averaging 86, which reflects the large number of FHA purchase originations.

Borrower FICO Score at Origination



Sources: CoreLogic Servicing and Urban Institute.
Note: Purchase-only loans.

Combined LTV at Origination



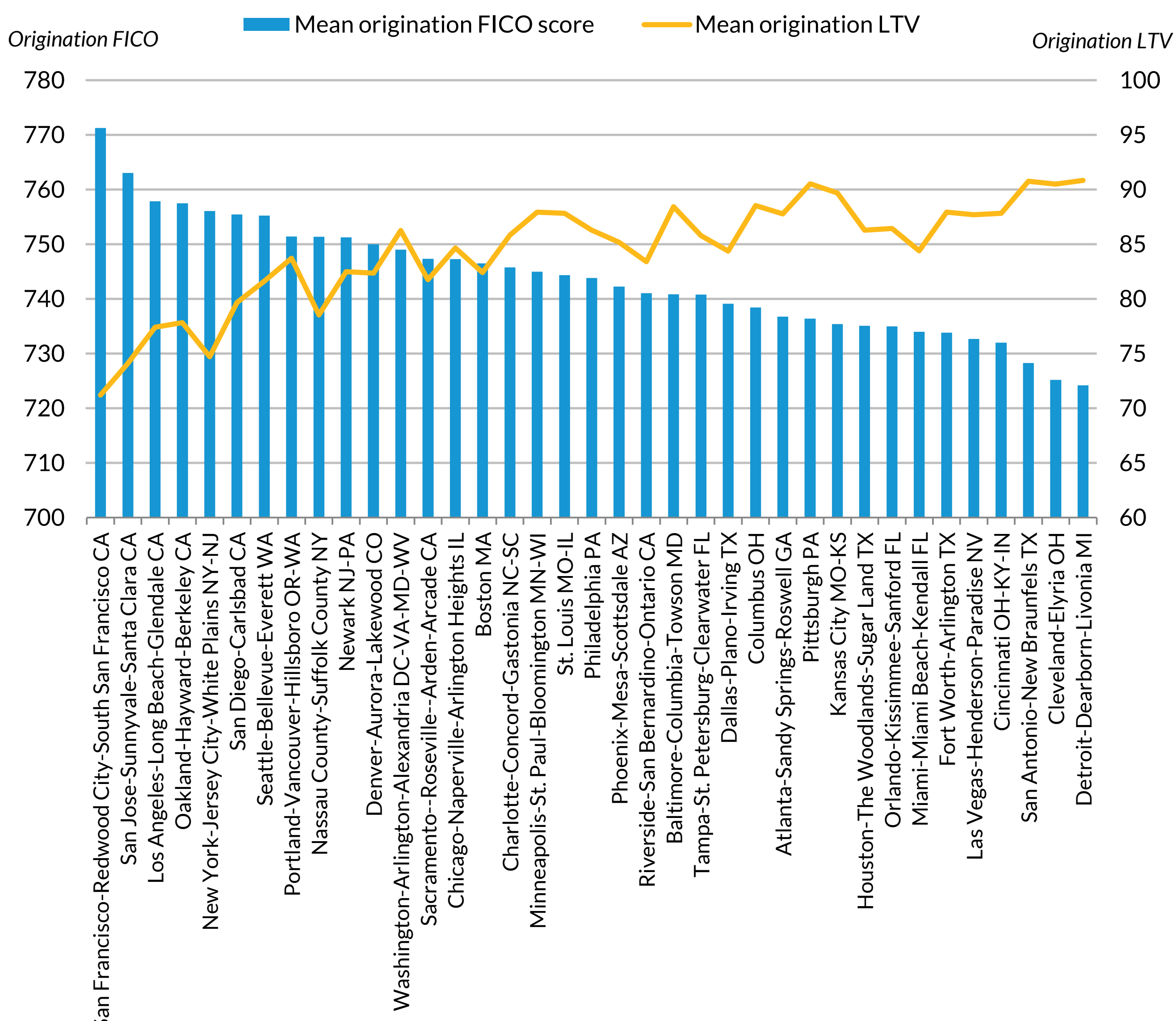
Sources: CoreLogic Servicing and Urban Institute.
Note: Purchase-only loans.

STATE OF THE MARKET

CREDIT AVAILABILITY FOR PURCHASE LOANS

Credit has been tight for all borrowers with less-than-stellar credit scores, but there are significant variations across MSAs. For example, the mean origination FICO for borrowers in San Francisco- Redwood City- South San Francisco, CA is 771, while in Detroit-Dearborn-Livonia, MI it is 724. 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



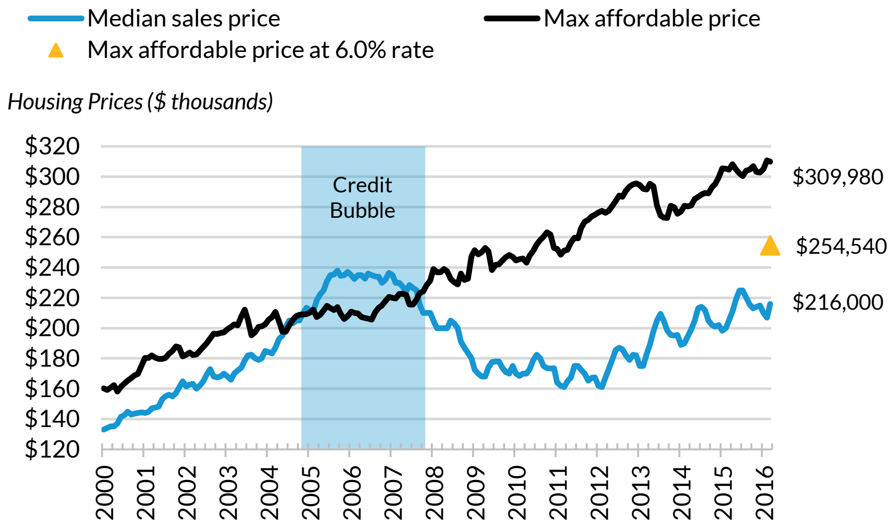
Sources: CoreLogic Servicing as of March 2016 and Urban Institute.
Note: Purchase-only loans.

HOUSING AFFORDABILITY

National Housing Affordability Over Time

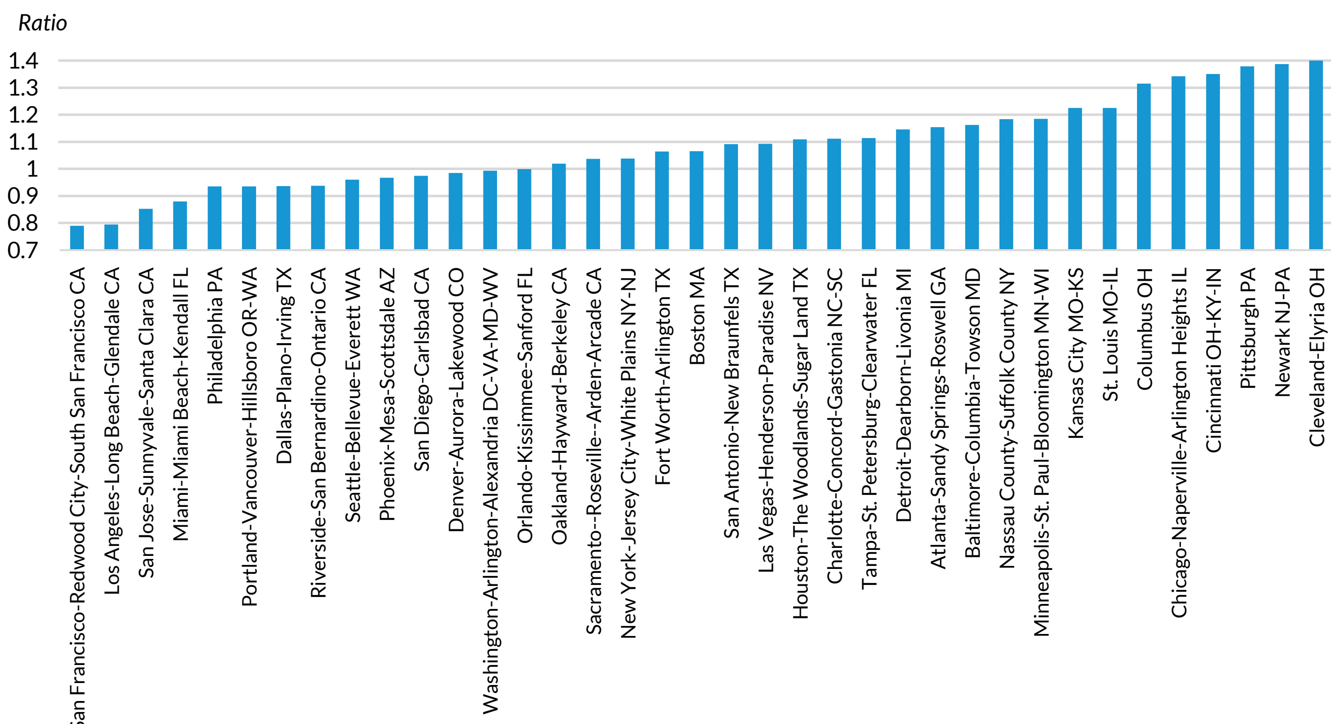
Home prices are still very affordable by historical standards, despite increases over the last four years. Even if interest rates rose to 6 percent, affordability would be at the long term historical average. The bottom chart shows that some areas are much more affordable than others.

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.



March 2016

Affordability Adjusted for MSA-Level DTI

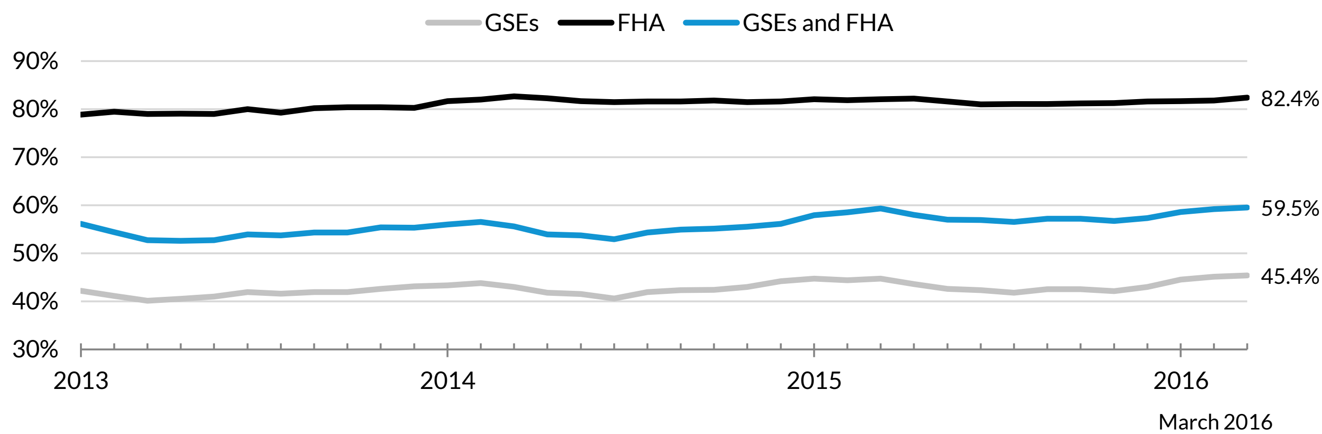


Sources: CoreLogic, US Census, Freddie Mac and Urban Institute calculations based on NAR methodology.
Note: Index is calculated relative to home prices in 2000-03. A ratio above 1 indicates higher affordability in March 2016 than in 2000-03.

FIRST-TIME HOMEBUYERS

First-Time Homebuyer Share

The first-time homebuyer share of GSE purchase loans has been rising steadily since the second half of 2015, and reached a high of 45.4 percent in March 2016. The FHA has always been more focused on first-time homebuyers, with its first-time homebuyer share hovering around 80 percent and now stands at 82.4 percent. The bottom table shows that based on mortgages originated in March 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 obtaining 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

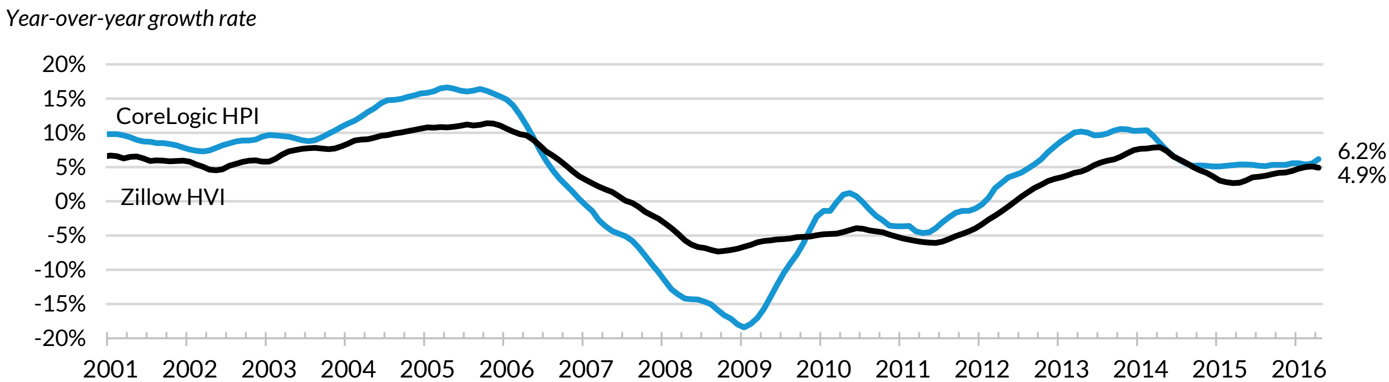
	GSEs		FHA		GSEs and FHA	
Characteristics	First-time	Repeat	First-time	Repeat	First-time	Repeat
Loan Amount ($)	223,822	247,760	186,493	214,271	205,362	239,863
Credit Score	740.82	754.46	679.5	685.89	710.51	738.3
LTV (%)	86.38	80.16	95.66	94.78	90.76	83.29
DTI (%)	33.5	34.49	40.49	41.6	36.95	36.15
Loan Rate (%)	3.94	3.84	3.9	3.83	3.92	3.84

Sources: eMBS and Urban Institute.
Note: Based on owner-occupied purchase mortgages originated in March 2016.

STATE OF THE MARKET
HOME PRICE INDICES

National Year-Over-Year HPI Growth

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



Sources: CoreLogic, Zillow, and Urban Institute.

Changes in CoreLogic HPI for Top MSAs

Despite rising 39 percent from the trough, national house prices still must grow 8.6 percent to reach pre-crisis peak levels. At the MSA level, five of the top 15 MSAs have reached their peak HPI– New York, NY; 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 33 and 36 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	-33.6	38.8	8.6
New York-Jersey City-White Plains NY-NJ	113.3	-16.4	26.4	-5.4
Los Angeles-Long Beach-Glendale CA	177.6	-38.7	54.8	5.4
Chicago-Naperville-Arlington Heights IL	66.1	-36.2	24.7	25.7
Atlanta-Sandy Springs-Roswell GA	37.9	-33.5	46.3	2.8
Washington-Arlington-Alexandria DC-VA-MD-WV	155.7	-34.4	29.6	17.7
Houston-The Woodlands-Sugar Land TX	39.6	-14.0	40.4	-17.2
Phoenix-Mesa-Scottsdale AZ	123.8	-52.9	59.4	33.2
Riverside-San Bernardino-Ontario CA	186.4	-52.9	55.8	36.2
Dallas-Plano-Irving TX	34.1	-13.9	43.5	-19.0
Minneapolis-St. Paul-Bloomington MN-WI	73.3	-30.6	31.2	9.8
Seattle-Bellevue-Everett WA	91.0	-29.5	53.8	-7.8
Denver-Aurora-Lakewood CO	35.6	-13.4	55.5	-25.7
Baltimore-Columbia-Towson MD	122.9	-24.6	7.5	23.2
San Diego-Carlsbad CA	145.1	-37.7	46.8	9.4
Anaheim-Santa Ana-Irvine CA	161.2	-35.9	44.6	7.8

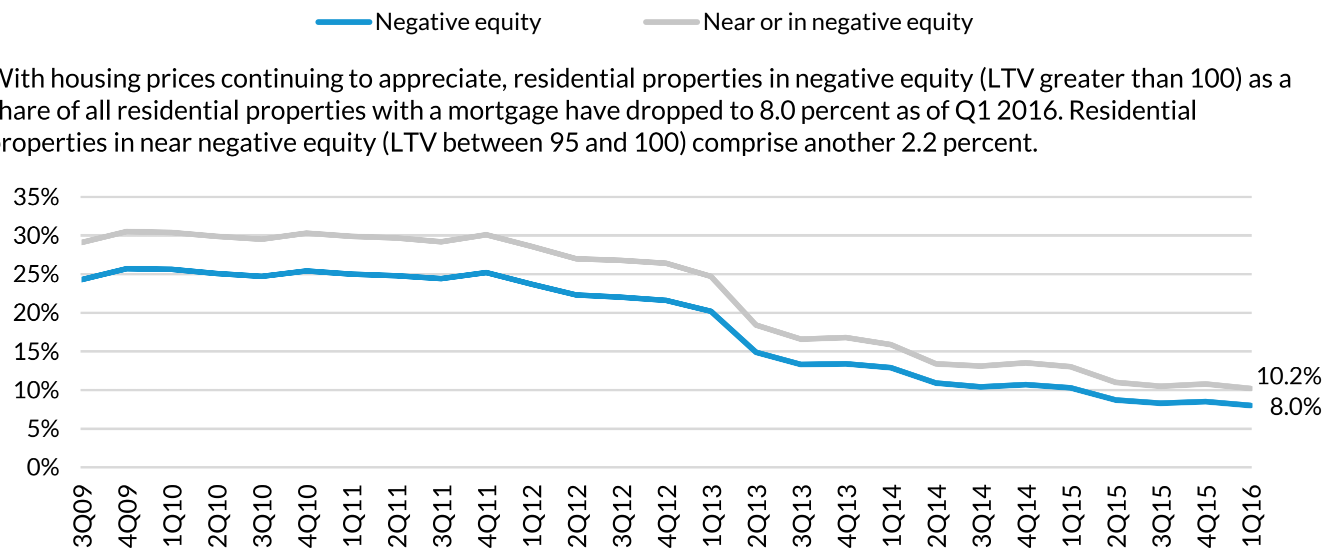
Sources: CoreLogic HPIs as of April 2016 and Urban Institute.
Note: This table includes the largest 15 Metropolitan areas by mortgage count.

STATE OF THE MARKET

NEGATIVE EQUITY & SERIOUS DELINQUENCY

Negative Equity Share

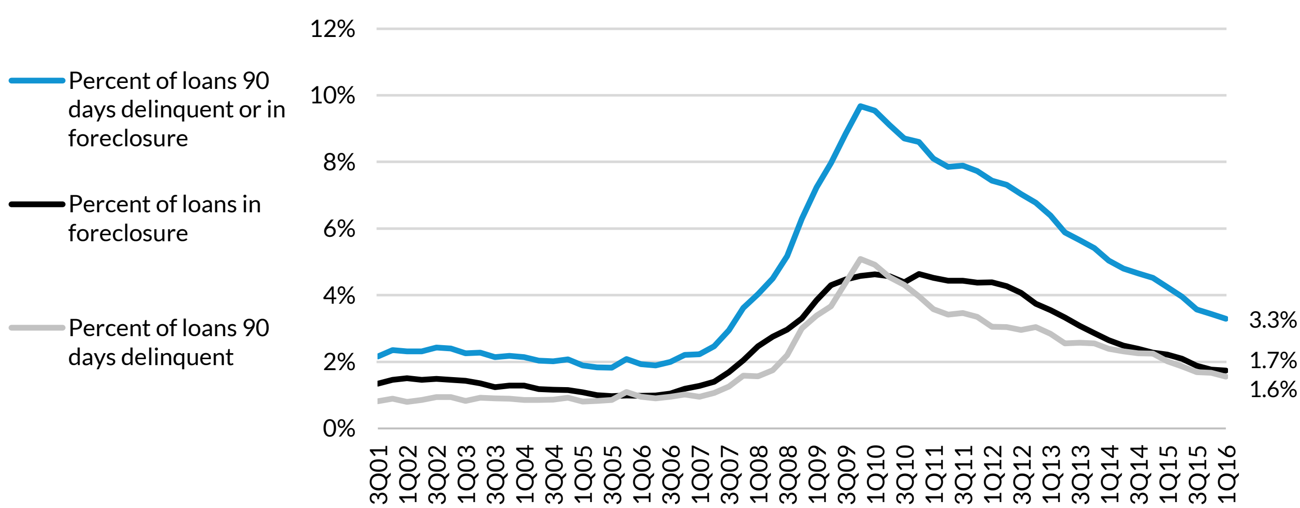
With housing prices continuing to appreciate, residential properties in negative equity (LTV greater than 100) as a share of all residential properties with a mortgage have dropped to 8.0 percent as of Q1 2016. Residential properties in near negative equity (LTV between 95 and 100) comprise another 2.2 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 3.3 % in the first quarter of 2016, down from 4.2% for the same quarter a year earlier.



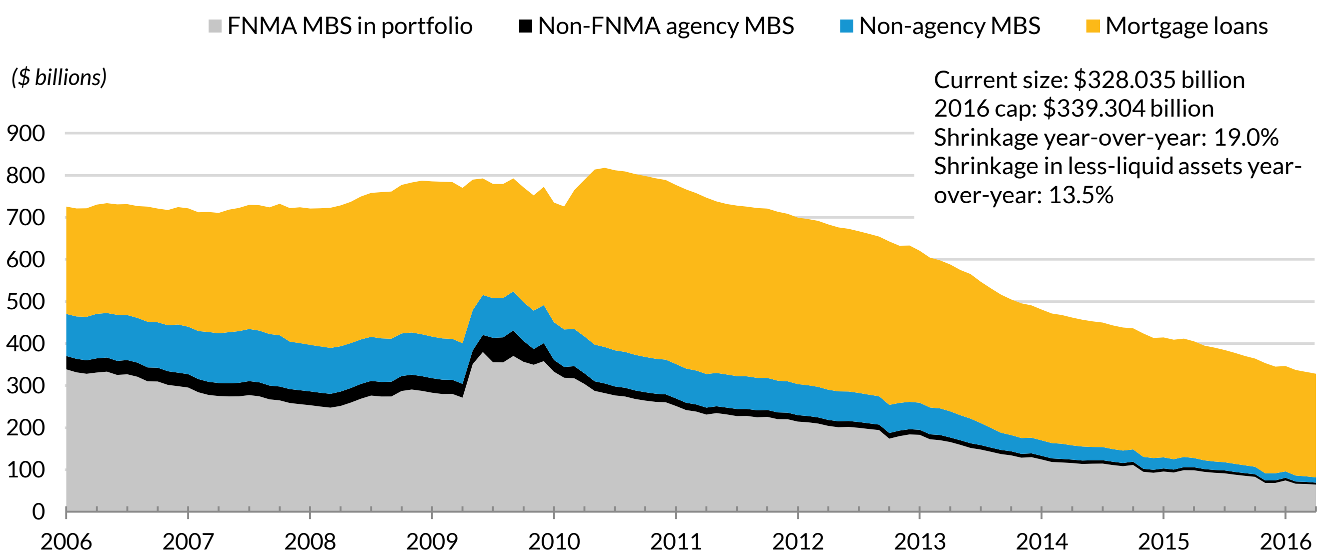
Sources: Mortgage Bankers Association and Urban Institute.

GSES UNDER CONSERVATORSHIP

GSE PORTFOLIO WIND-DOWN

Both GSEs continue to contract their portfolios; since March 2016, Fannie Mae contracted by 19 percent and Freddie Mac by 16.5 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. Even though it is early in the year, both GSEs are under their 2016 caps.

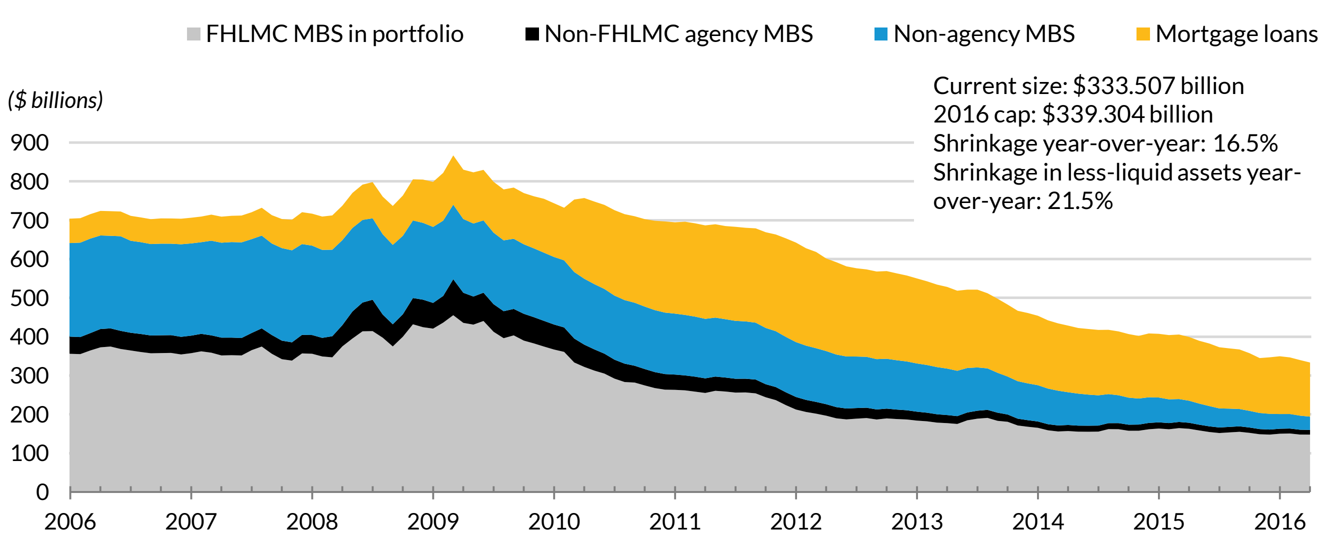
Fannie Mae Mortgage-Related Investment Portfolio Composition



Sources: Fannie Mae and Urban Institute.

April 2016

Freddie Mac Mortgage-Related Investment Portfolio Composition



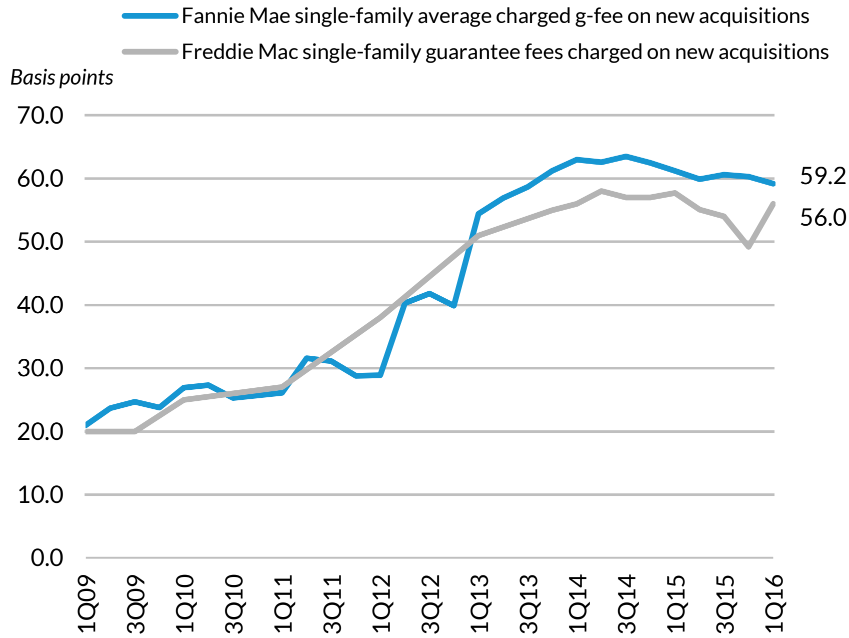
April 2016

Sources: Freddie Mac and Urban Institute.

GSES UNDER CONSERVATORSHIP
EFFECTIVE GUARANTEE FEES

Guarantee Fees Charged on New Acquisitions

Fannie's average charged g-fee on new single-family originations fell slightly to 59.2 bps in Q1 2016, down from 61.2 bps in the same quarter last year. Freddie's fee stemmed 2015's decline and recovered to 56,0 in Q1 2016, the same level as Q1 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 as of 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)

	LTV							
Credit Score	≤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.

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. 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 20.69% of its outstanding guarantees, while Freddie's STACR covers 30.88 %.

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%
Total		**$584,688**	**$15,129**	**2.6%**
Percent of Fannie Mae's Total Book of Business		**20.69%**		

Freddie Mac – Structured Agency Credit Risk (STACR)

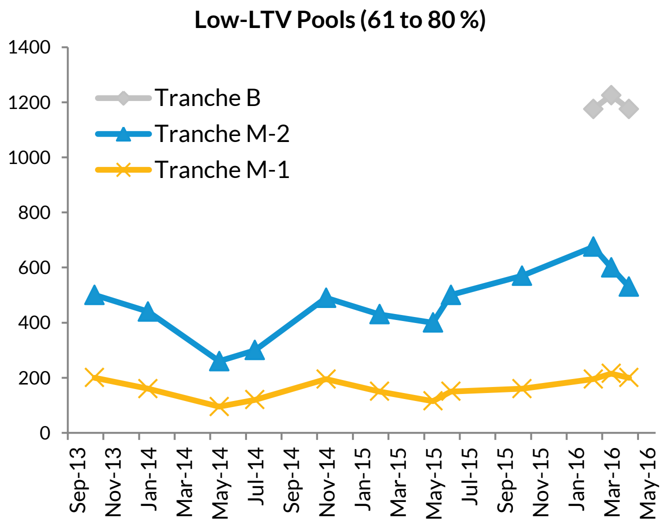
Date	*Transaction*	*Reference Pool Size ($ m)*	*Amount Issued ($m)*	*% of Reference Pool Covered*
July 2013	STACR Series 2013 – DN1	$22,584	$500	2.2%
November 2013	STACR Series 2013 – DN2	$35,327	$630	1.8%
February 2014	STACR Series 2014 – DN1	$32,077	$1,008	3.1%
April 2014	STACR Series 2014 – DN2	$28,147	$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%
Total		**$543,573**	**$16,513**	**3.0%**
Percent of Freddie Mac's Total Book of Business		**30.88%**		

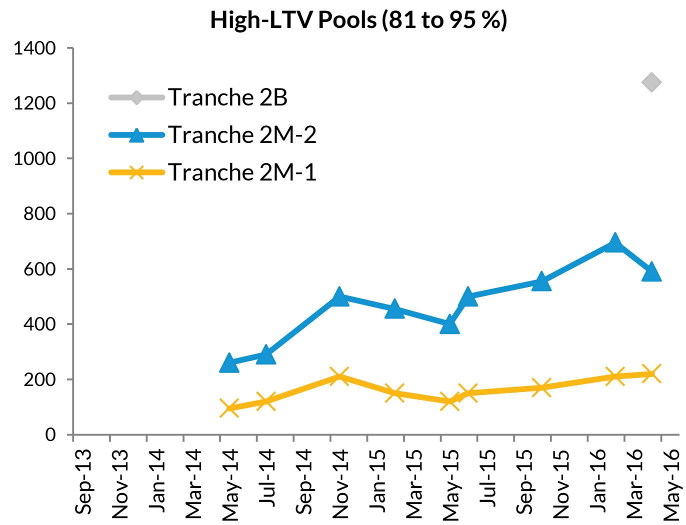
Sources: Fannie Mae, Freddie Mac and Urban Institute.
Note: Classes A-H, M-1H, M-2H, and B-H are reference tranches only. These classes are not issued or sold. The risk is retained by Fannie Mae and Freddie Mac. "CE" = credit enhancement.

GSES UNDER CONSERVATORSHIP
GSE RISK-SHARING SPREADS

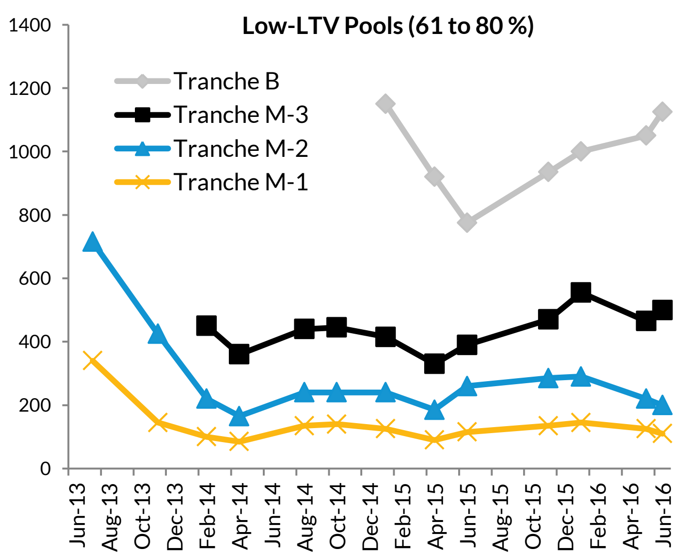
CAS and STACR spreads have moved around considerably since 2013, with the bottom mezzanine tranche and the first loss bonds experiencing considerably more volatility than the top mezzanine bonds (the M-1 in two tranche deals, the M-1 and M-2 in three tranche deals). Tranche B in particular has been highly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

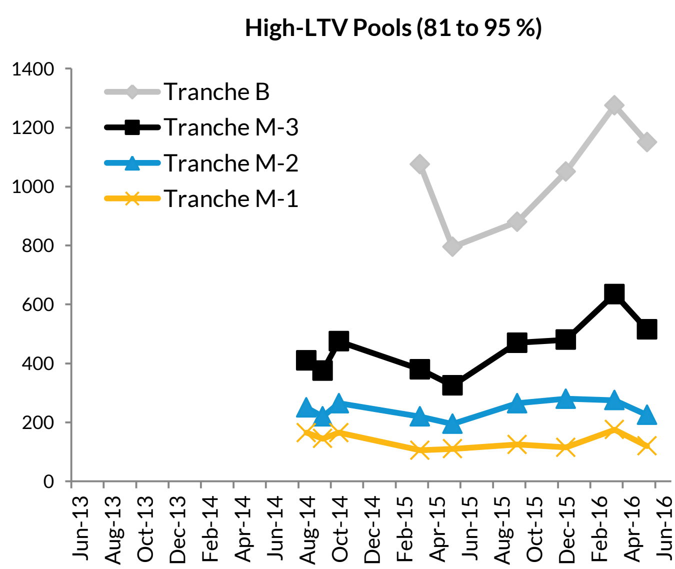
Fannie Mae CAS Spreads at-issuance (basis points over 1-month LIBOR)





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



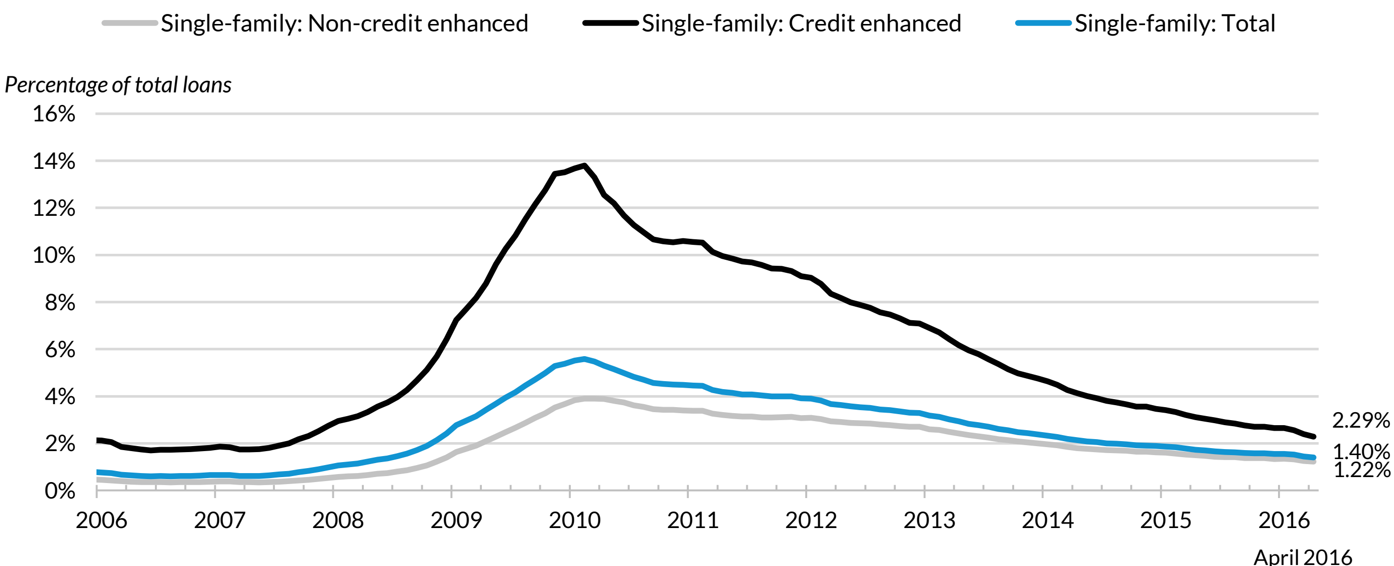


Sources: Fannie Mae, Freddie Mac Press Releases and Urban Institute.

GSES UNDER CONSERVATORSHIP
SERIOUS DELINQUENCY RATES

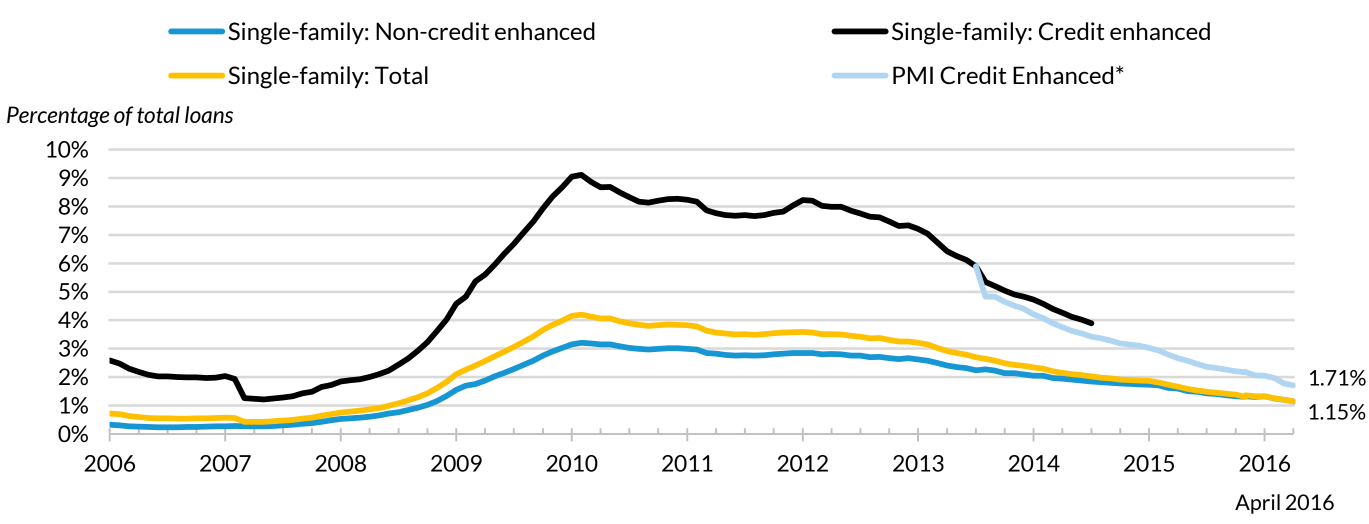
Serious delinquency rates of GSE loans continue to decline as the legacy portfolio is resolved and the pristine, post-2009 book of business exhibits very low default rates. As of April 2016, 1.40 percent of the Fannie portfolio and 1.15 percent of the Freddie portfolio were seriously delinquent, down from 1.73 percent for Fannie and 1.66 percent for Freddie in April 2015.

Serious Delinquency Rates–Fannie Mae



Sources: Fannie Mae and Urban Institute.

Serious Delinquency Rates–Freddie Mac

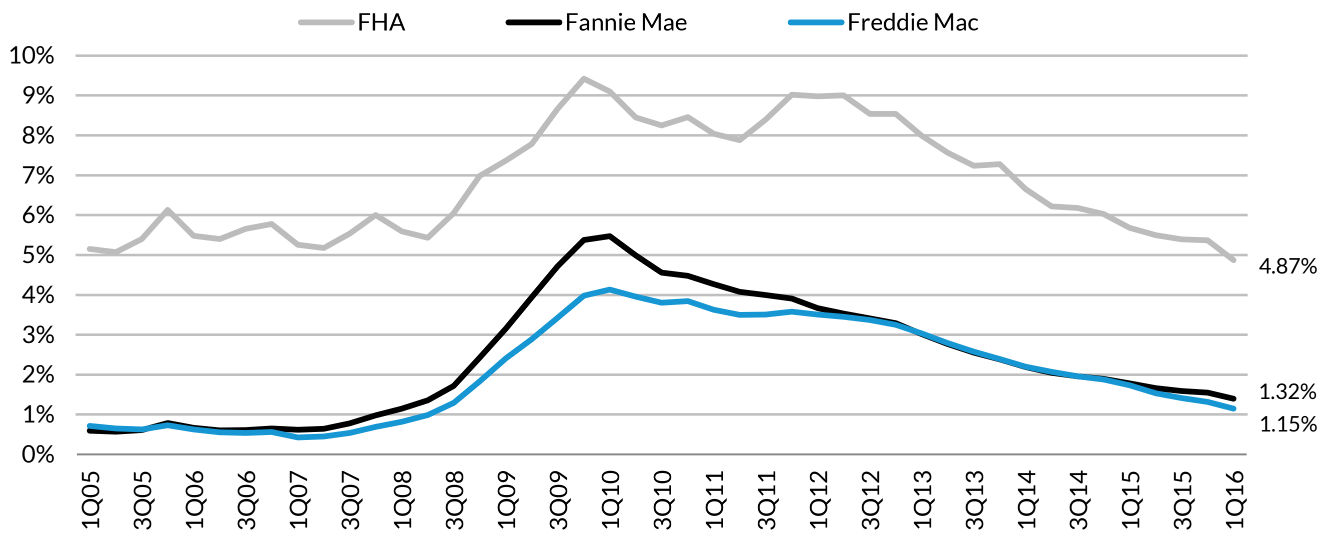


Sources: Freddie Mac and Urban Institute.
Note*: Following a change in Freddie reporting in September 2014, we switched from reporting credit enhanced delinquency rates to PMI credit enhanced delinquency rates.

SERIOUS DELINQUENCY RATES

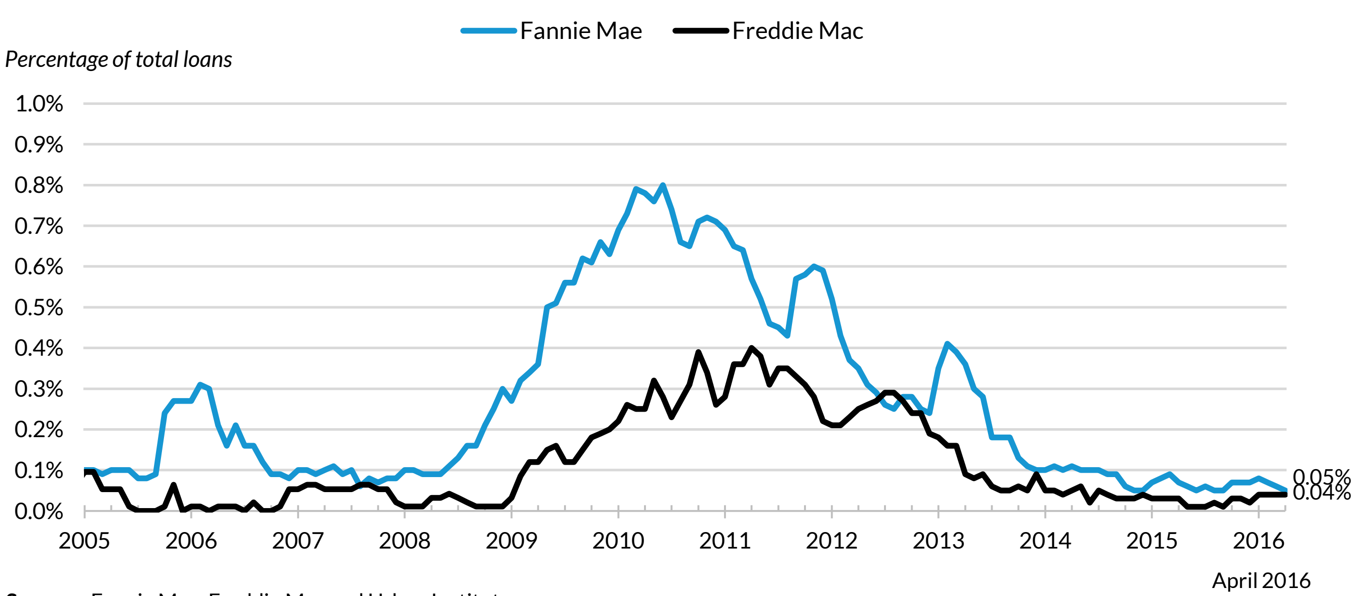
Serious delinquencies for FHA and GSE single-family loans continue to decline. GSE delinquencies remain higher relative to 2005-2007, while FHA delinquencies (which are much higher than their GSE counterparts) are now at levels similar to 2005-2007. GSE multifamily delinquencies have declined to pre-crisis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

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



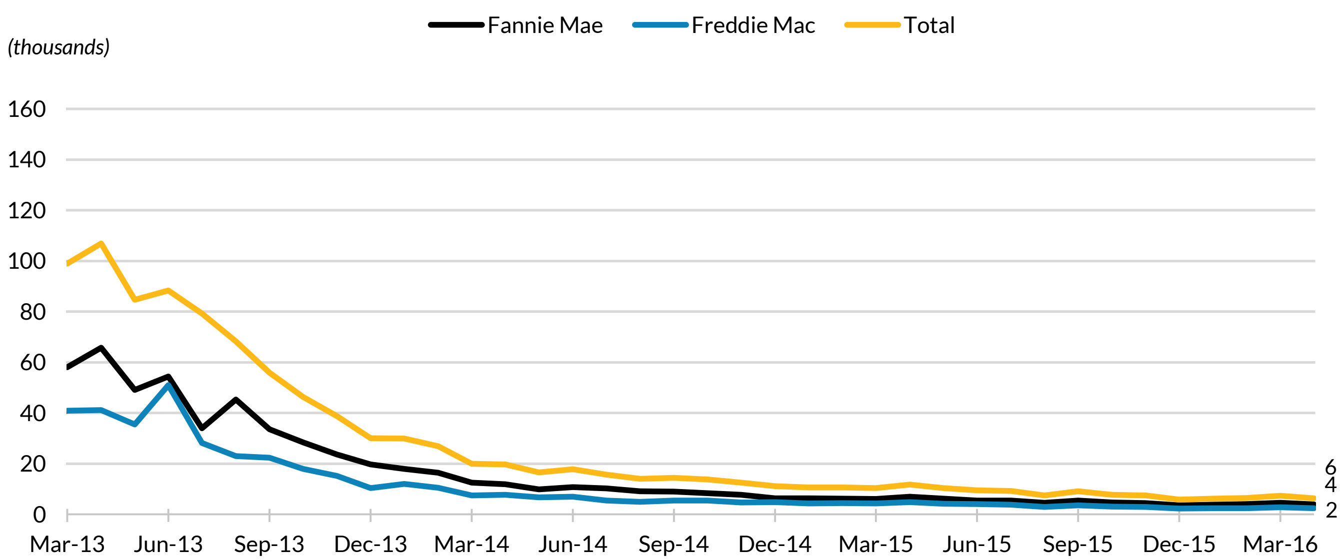
Sources: Fannie Mae, Freddie Mac and Urban Institute.
Note: Multifamily serious delinquency rate is the unpaid balance of loans 60 days or more past due, divided by the total unpaid balance.

GSES UNDER CONSERVATORSHIP

REFINANCE ACTIVITY

The Home Affordable Refinance Program (HARP) refinances have slowed considerably. Two factors are responsible for this: (1) higher interest rates, leaving fewer eligible loans where refinancing is economically advantageous (in-the-money), and (2) a considerable number of borrowers who have already refinanced. Since the program's Q2 2009 inception, HARP refinances total 3.4 million, accounting for 15 percent of all GSE refinances in this period.

Total HARP Refinance Volume



Sources: FHFA Refinance Report and Urban Institute.

HARP Refinances

	March 2016	Year-to-date 2016	Inception to date	2015	2014	2013
Total refinances	168,212	597,697	23,091,670	2,084,936	1,536,788	4,081,911
Total HARP refinances	6,347	26,336	3,406,890	110,109	212,488	892,914
Share 80–105 LTV	79.1%	78.0%	70.2%	76.5%	72.5%	56.4%
Share 105–125 LTV	15.0%	15.0%	17.2%	15.6%	17.2%	22.4%
Share >125 LTV	5.9%	7.0%	12.6%	8.0%	10.3%	21.2%
All other streamlined refinances	14,208	55,064	3,794,551	218,244	268,026	735,210

Sources: FHFA Refinance Report and Urban Institute.

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 370,311 eligible loans, but 41 percent are out-of-the-money because the closing cost would exceed the long-term savings, leaving 217,536 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 5,202,489 loans in this category, 4,425,983 are in-the-money.

More than 75 percent of the GSE book of business that meets the pay history requirements was originated after the June, 2009 cutoff date. FHFA Director Mel Watt announced in May 2014 that they are not planning to extend the cutoff date. On May 8, 2015 Director Watt extended the deadline for the HARP program for an additional year, until the end of 2016.

Total loan count	27,075,740
Loans that do not meet pay history requirement	1,252,873
Loans that meet pay history requirement:	25,822,867
Pre-June 2009 origination	5,572,800
Post-June 2009 origination	20,250,066

Loans Meeting HARP Pay History Requirements

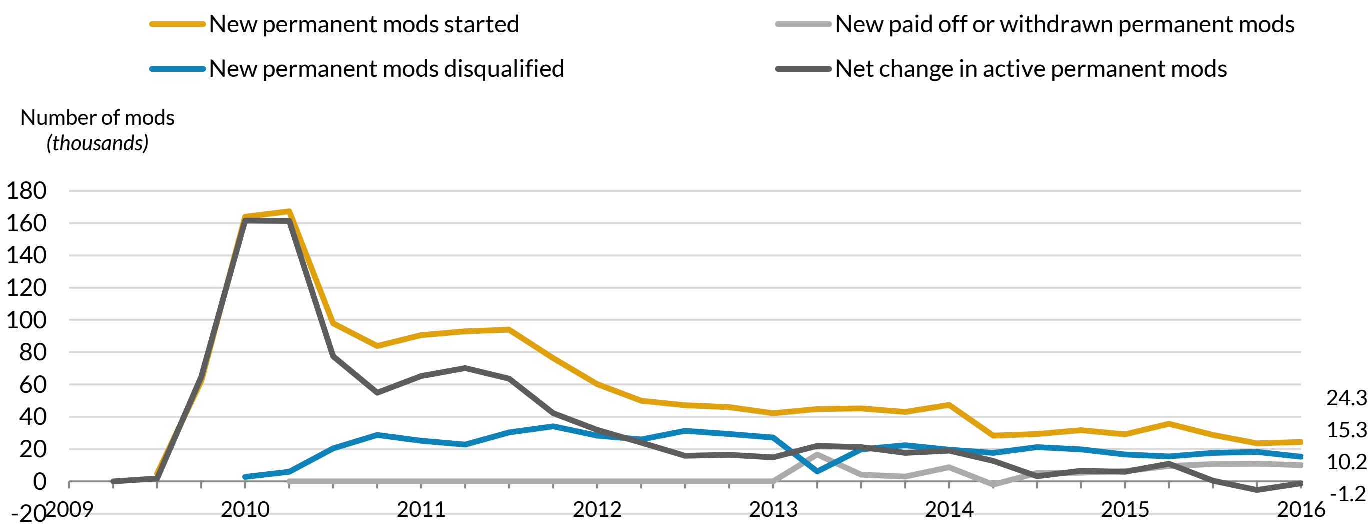
Pre-June 2009			
LTV category	*In-the-money*	*Out-of-the-money*	*Total*
≤80	4,425,983	776,507	5,202,489
>80	217,536	152,775	370,311
Total	4,643,519	929,282	5,572,800
Post-June 2009			
LTV category	*In-the-money*	*Out-of-the-money*	*Total*
≤80	5,913,458	11,683,990	17,597,448
>80	1,174,650	1,477,968	2,652,618
Total	7,088,108	13,161,958	20,250,066

Sources: CoreLogic Prime Servicing as of April 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.

MODIFICATION ACTIVITY
HAMP ACTIVITY

In Q1 2016, the number of active permanent modifications continued to fall by 1,157 mortgages, after its first ever decline of 5,408 mortgages last quarter. There are two factors behind this change: Fewer new permanent modifications were made, and more active modifications became inactive because of borrowers paying off or withdrawing their permanent modifications and borrowers becoming disqualified. As a result, active permanent mods declined to 0.98 million.

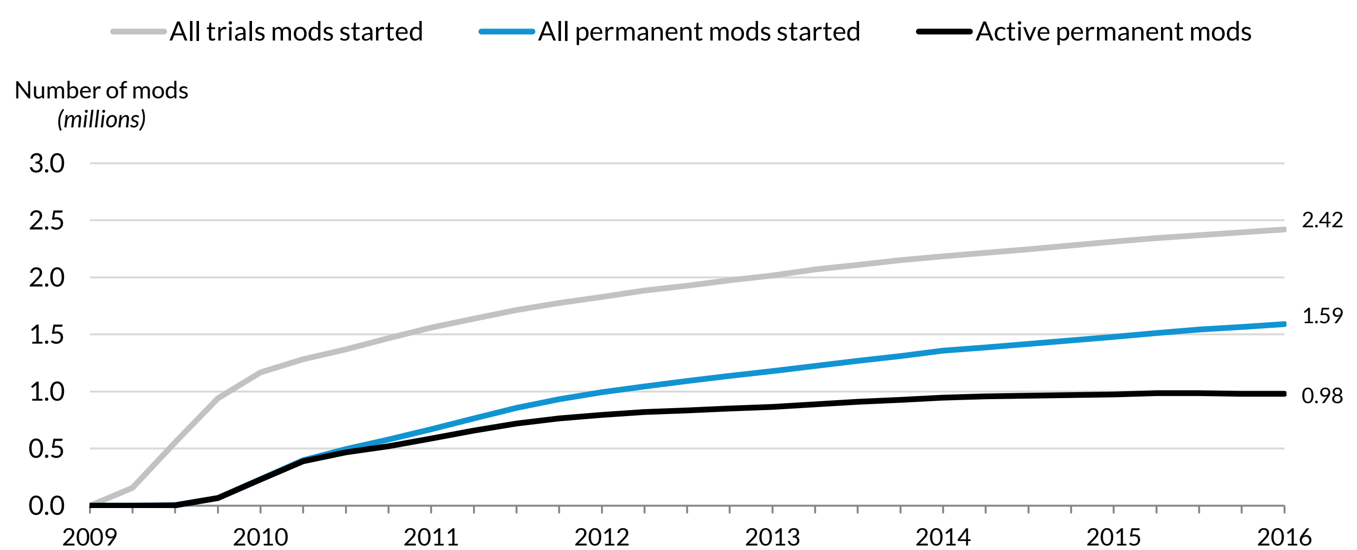
New HAMP Modications



Sources: U.S. Treasury Making Home Affordable and Urban Institute.

1Q 2016

Cumulative HAMP Modifications



Sources: U.S. Treasury Making Home Affordable and Urban Institute.

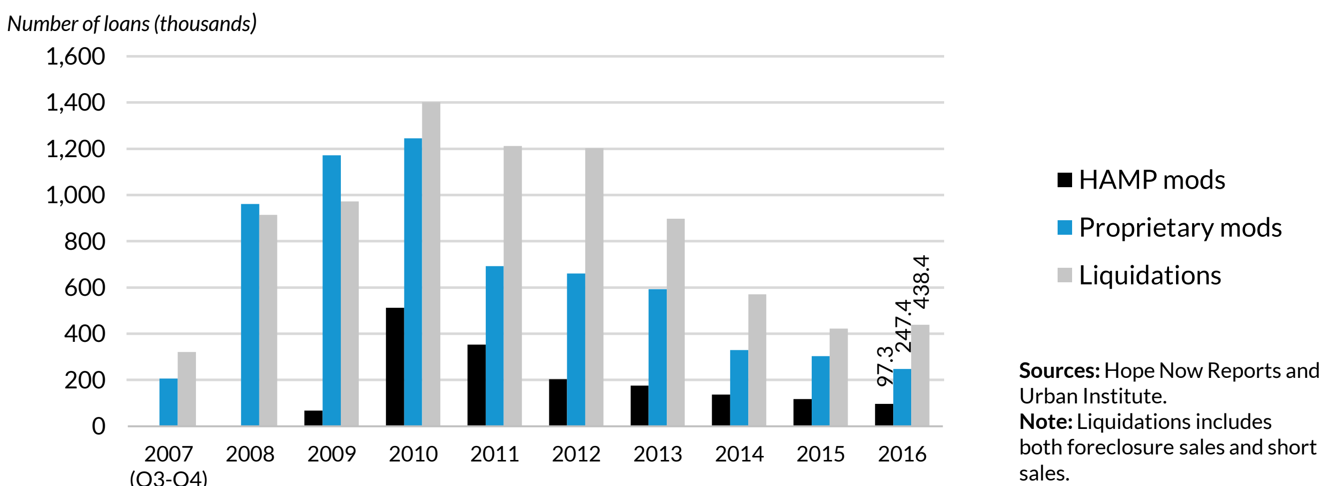
1Q 2016

MODIFICATION ACTIVITY

MODIFICATIONS AND LIQUIDATIONS

Total modifications (HAMP and proprietary) are now roughly equal to total liquidations. Hope Now reports show 7,816,618 borrowers have received a modification since Q3 2007, compared with 8,025,361 liquidations in the same period. Modification activity slowed significantly in 2014 and has continued to do so, averaging 28,722 in the first quarter of 2016. Liquidations have also continued to decline, averaging 36,533 per month in the first quarter of 2016 compared to 39,710 per month in the same quarter a year ago.

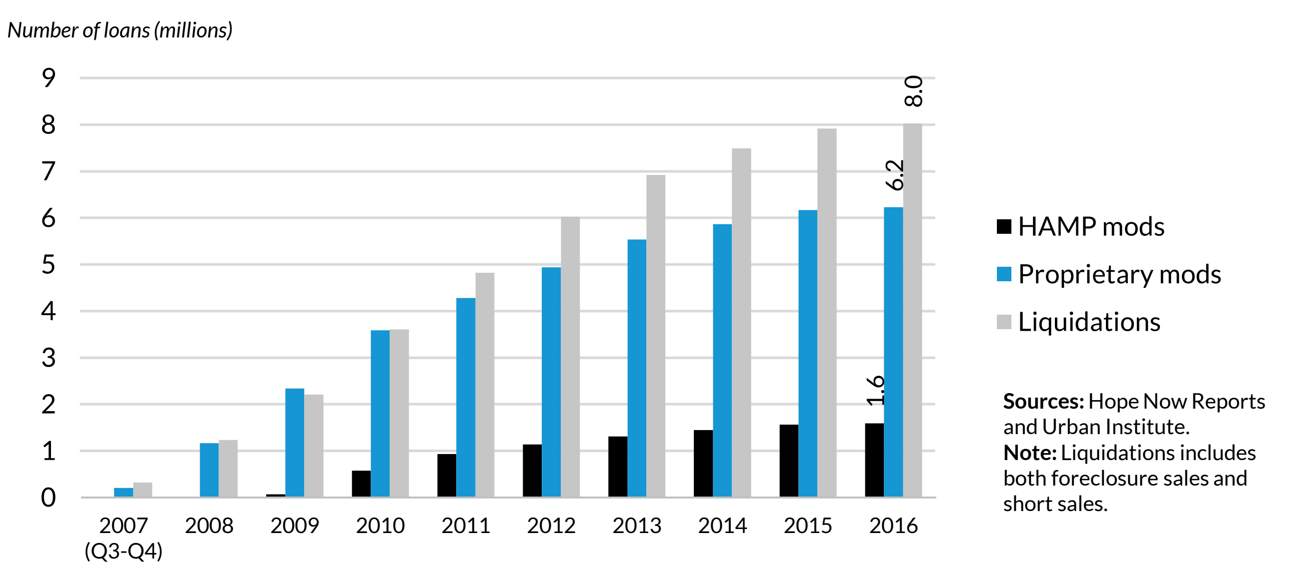
Loan Modifications and Liquidations



March 2016

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

Cumulative Modifications and Liquidations



March 2016

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

AGENCY ISSUANCE

AGENCY GROSS AND NET ISSUANCE

The agency gross issuance totaled $500.4 billion in the first five months of 2016, a slight 3.1 percent decrease year-over-year. Net issuance (which excludes repayments, prepayments, and refinances on outstanding mortgages) remains low.

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	$322.85	$177.52	$500.37
%Change year-over-year	-8.9%	9.5%	-3.1%
2016 Ann.	$774.84	$426.05	$1,200.89

Agency Net Issuance

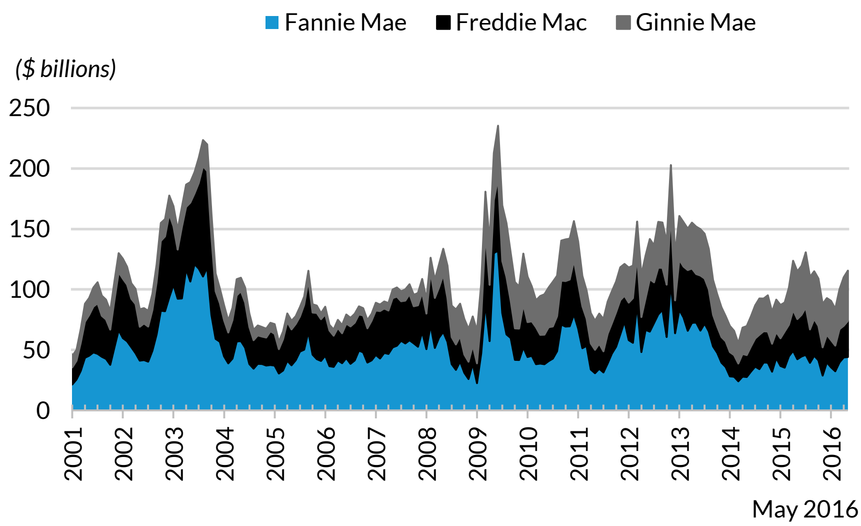
Issuance Year	GSEs	Ginnie Mae	Total
2000	$159.8	$29.3	$189.1
2001	$367.8	-$9.9	$357.9
2002	$357.6	-$51.2	$306.4
2003	$335.0	-$77.6	$257.4
2004	$83.3	-$40.1	$43.2
2005	$174.4	-$42.2	$132.1
2006	$313.6	$0.3	$313.8
2007	$514.7	$30.9	$545.5
2008	$314.3	$196.4	$510.7
2009	$249.5	$257.4	$506.8
2010	-$305.5	$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	$29.7	$44.9	$74.7
%Change year-over-year	37.68%	197.19%	103.38%
2016 Ann.	$71.4	$107.9	$179.2

Sources: eMBS and Urban Institute.
Note: Dollar amounts are in billions. Annualized figure based on data from May 2016.

AGENCY GROSS ISSUANCE & FED PURCHASES

Monthly Gross Issuance

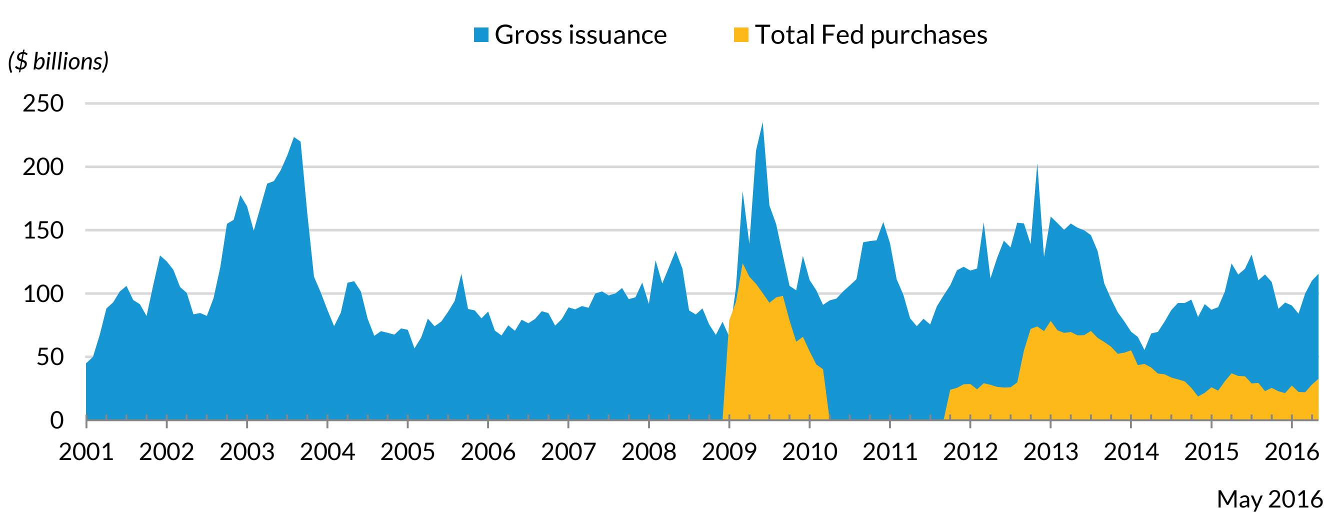
While government and GSE lending have dominated the mortgage market since the crisis, there has been a change in the mix. The Ginnie Mae share reached a peak of 28 percent of total agency issuance in 2010, declined to 25 percent in 2013, and has bounced back sharply since then. The Ginnie Mae issuance stood at 36 percent in May 2016, as the FHA refinance activity surged with the reduction in the FHA insurance premium.



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 May 2016, total Fed purchase rose to $33 billion, yielding Fed absorption of gross issuance of 28 percent, up from 26 percent last month.



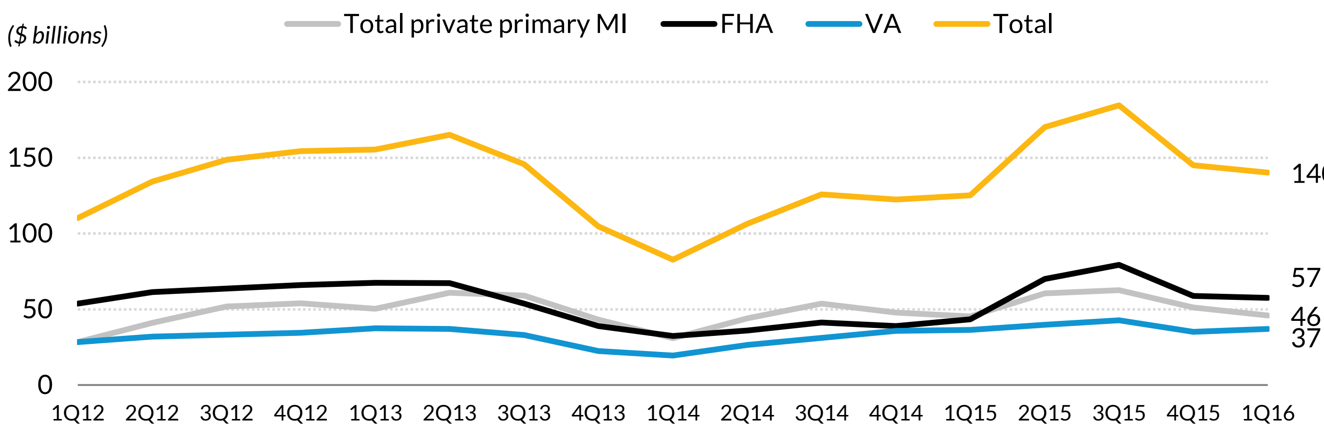
Sources: eMBS, Federal Reserve Bank of New York and Urban Institute.

AGENCY ISSUANCE

MORTGAGE INSURANCE ACTIVITY

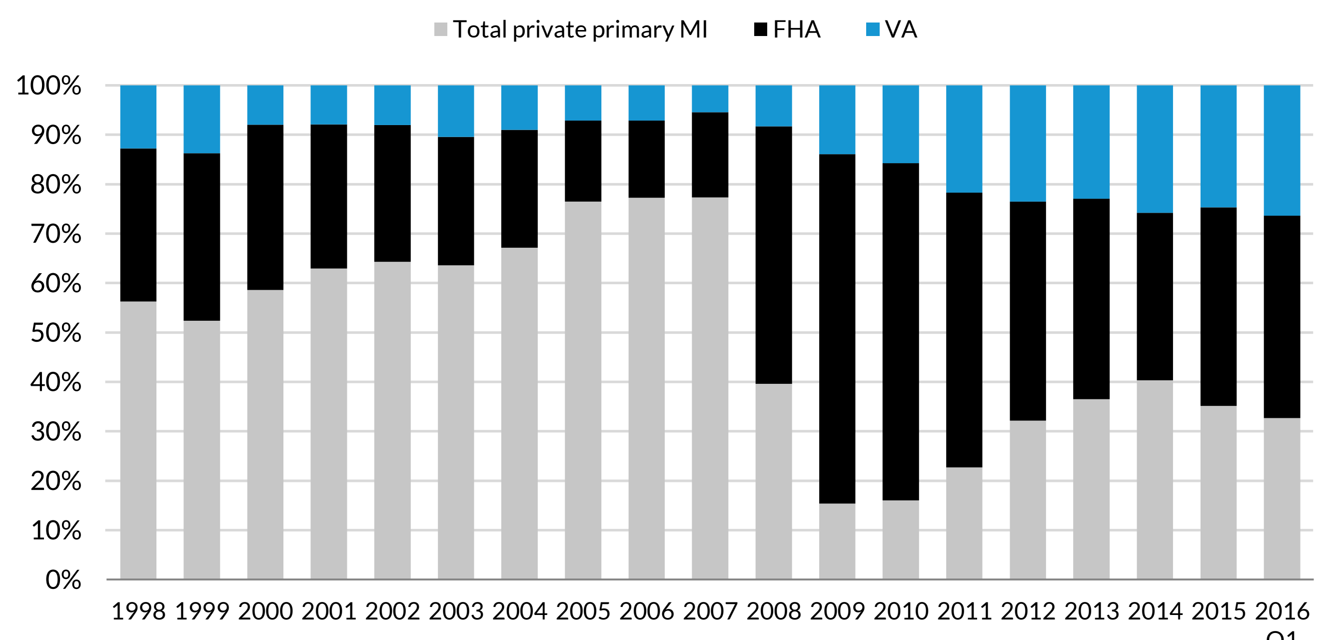
MI Activity

In 2016 Q1, mortgage insurance activity via the FHA, VA and private insurers fell slightly to $140.2 billion, down from last quarter's $145.2 billion but still up 12 percent year over year from the same quarter in 2015. This decline was driven by private insurers while FHA and VA activities stayed stable. FHA's market share rose to 41 percent in 2016 Q1 (from 40 percent the previous quarter), while the private insurance market's share declined to 33 percent (from 35 percent the previous quarter).



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 economic for all borrowers except those with FICOs of 760 or above.

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	3.89%
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	$1,688	$1,626	$1,582	$1,460	$1,410	$1,356	$1,309	$1,268
PMI Advantage	($415)	($353)	($309)	($187)	($137)	($83)	($36)	$5

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.

PUBLICATIONS AND EVENTS

Upcoming Events

***July 20, 2016 Data Talk: Tale of Two Markets: Single-Family versus Multifamily Construction** with Paul Emrath, National Association of Home Builders; Greg Willett, RealPage Inc.,; and Jamie Woodwell, Mortgage Bankers Association. Please check our events page for more information.*

Publications

A More Promising Road to GSE Reform: Governance and Capital
Authors: Jim Parrott, Lewis Ranieri, Gene Sperling, Mark M. Zandi, Barry Zigas
Date: June 14, 2016

Default and Loss Experience for Two-to-Four-Unit Properties
Authors: Laurie Goodman, Jun Zhu
Date: May 16, 2016

The Downside of an Illiquid Market
Authors: Karan Kaul, Laurie Goodman
Date: May 6, 2016

FHFA Announces Principal Reduction: Why the Numbers Are So Small and Why It Still Matters
Authors: Jim Parrott, Jun Zhu, Laurie Goodman
Date: April 18, 2016

A More Promising Road to GSE Reform
Authors: Jim Parrott, Lewis Ranieri, Gene Sperling, Mark M. Zandi, Barry Zigas
Date: March 31, 2016

Comparing Credit Profiles of American Renters and Owners
Authors: Wei Li, Laurie Goodman
Date: March 17, 2016

A Progress Report on the Private-Label Securities Market
Authors: Laurie Goodman
Date: March 8, 2016

Has the QM Rule Made it Harder to Get a Mortgage?
Authors: Bing Bai, Laurie Goodman, Ellen Seidman
Date: March 1, 2016

Nonbank Servicer Regulation: New Capital and Liquidity Requirements Don't Offer Enough Loss Protection
Authors: Karan Kaul, Laurie Goodman
Date: February 25, 2016

Project

Housing Finance Reform Incubator

Blog Posts

Housing supply falls short of demand by 430,000 units
Author: Laurie Goodman
Date: June 20, 2016

If we aren't careful with GSE risk transfer, mortgage rates could become volatile
Author: Karan Kaul
Date: June 9, 2016

Financial security and longevity go hand in hand
Author: Ellen Seidman, Diana Elliott
Date: June 8, 2016

Treasury's program has fewer modified mortgages. Why and what's next?
Author: Bing Bai, Laurie Goodman
Date: June 3, 2016

Selling delinquent mortgages to investors is a tough balancing act
Author: Karan Kaul
Date: May 27, 2016

Rentals in two-to-four-unit buildings are more affordable, so why are they so hard to finance?
Author: Laurie Goodman, Jun Zhu
Date: May 17, 2016

How can we keep rent within reach for families?
Author: Laurie Goodman
Date: May 10, 2016

The private mortgage insurance price reduction will pull high quality borrowers from FHA
Author: Bing Bai, Laurie Goodman
Date: May 2, 2016

Where have all the small loans gone?
Author: Ellen Seidman, Bing Bai
Date: April 18, 2016

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