

# **GLOBAL MARKETS ANALYSIS REPORT**

A Monthly Publication of Ginnie Mae's Office of Capital Markets

# November 2024



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# Inside this Month's Global Market Analysis Report...

**Ginnie** Mae

Our Guaranty Matters

The November 2024 *Highlights* dives into Agency collateralized mortgage obligations (CMOs), examining trends in issuance volume by coupon type among Ginnie Mae and the government-sponsored entities (GSEs). Reason behind trends in coupon types are discussed as recent floating rate coupon issuance reached its highest level in over two years. The *Highlights* capture growth trends in Agency CMO issuance volume and uncover Ginnie Mae's leading share over the past two years.

Notable insights in this month's Global Market Analysis Report include the following:

- The <u>Fixed Income Product Performance Comparisons</u> section shows that Ginnie Mae's MBS continue to offer attractive yields relative to sovereigns with comparable durations globally.
- The <u>Single-Family MBS Pass-Through Issuance</u> section captures the leading role government lending/mortgage insurance programs are playing in the post-pandemic mortgage market. Gross and net issuance of Single-Family Ginnie Mae pass-throughs exceed that of both Fannie Mae and Freddie Mac.
- The <u>SOMA Holdings</u> section captures the Federal Reserve's (Fed) Chairman Jerome Powell's comments regarding the Fed's decision to lower the policy rate as well as recent activity in the Systems Open Market Account (SOMA) portfolio.
- The <u>Housing Affordability Affordability Index</u> section shows how homebuyer affordability has decreased for families purchasing median priced homes. Accordingly, the new homebuyer monthly payment figure shows how monthly payments have increased for first-time homebuyers.



### Highlights

CMOs, also known as Real-Estate Mortgage Investment Conduits (REMIC), are a type of multiclass security that pools mortgage loans, mortgage-backed securities (MBS), or other structured mortgagebacked securities into distinct tranches. These securities were developed within a tax structure that address limitations of traditional mortgage pass-through instruments by offering a wider range of investment terms and risk profiles. CMO tranches are structured to align with specific investor objectives, providing enhanced customization and predictability of cash flows. The highly customizable nature of CMOs has led to increasingly varied and complex structures with multiple tranches, each having unique characteristics that may be interdependent with other tranches in the offering.

Recently, the issuance of CMOs with floating-rate coupons has experienced a notable increase. Floating rate coupons are tied in a fixed relationship to a predetermined interest rate index such as 30-day average SOFR. The floating rate provides the investor an ability to mitigate interest rate risk (IRR) in their portfolio as the security resets its interest rate each month. Both floaters and inverse floaters play critical roles in managing portfolio exposure to rate fluctuations. The increased issuance of floating-rate coupons may be attributed to a heightened ambiguity in the macroeconomic environment, as market participants hedge against the uncertainties on the future path of interest rates.

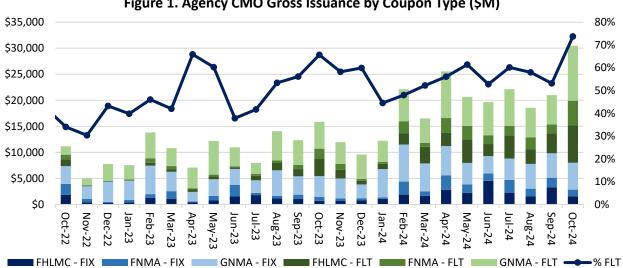


Figure 1. Agency CMO Gross Issuance by Coupon Type (\$M)

Source: Recursion

Figure 1 shows Agency CMO gross issuance over the past two years for Ginnie Mae, Freddie Mac, and Fannie Mae, split by coupon type. Since October 2022 to October 2024 approximately \$367 billion gross issuance of Agency CMOs were issued. Ginnie Mae's share of gross issuance accounts for over 61% or \$224 billion of total gross issuance over the past two years. Average monthly issuance for all Agency CMOs from October 2022 to October 2023 was around \$10.5 billion, while the average monthly issuance for October 2023 to October 2024 was around \$18.9 billion.



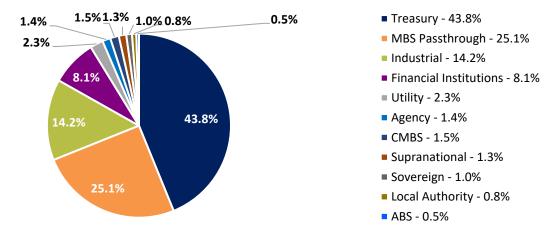
The growth in CMO gross issuance was also accompanied by a growth in the share of floating rate coupons. The line in the chart above shows how floater issuance has grown as a percent of overall issuance. As of October 2024, approximately 73% of all issuances were structured into floating coupons. Ginnie Mae's share of floater issuance was approximately half of the total floater issuance for October 2024. For more information on Agency CMO issuance, see <u>Section 7.0 – Agency REMIC Securities.</u>



#### 1 US AGGREGATE AND GLOBAL INDICES

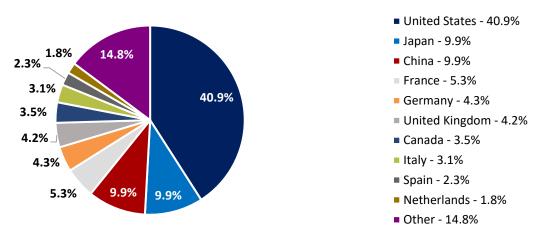
#### 1.1 Bloomberg US Aggregate and Global Indices

At month-end October, U.S. Treasuries contributed 43.8% to the Bloomberg U.S. Aggregate Index, increasing approximately 0.2% from the prior month. U.S. Agency MBS Passthrough (Ginnie Mae, Fannie Mae, and Freddie Mac) contributed 25.1%, decreasing approximately 0.2% from the prior month. All other changes in the U.S. Aggregate Index were no larger than 0.1%.



#### Figure 2. Bloomberg U.S. Aggregate Index

In the Bloomberg Global Aggregate Index by Country, the U.S. share of fixed income remained the largest share of total outstanding issuance, representing 40.9% of the total index, increasing approximately 0.5% from the prior month. Japan's share of fixed income was the second largest with 9.9% at month end of October 2024. China's share was the third largest at 9.9% as of month end October 2024. Japan's share of fixed income decreased from the prior month by 0.5% and China's share of fixed income increased by 0.2% from the prior month. All other countries listed remained stable compared to the prior month with no changes larger than 0.1%.



#### Figure 3. Bloomberg Global Aggregate Index by Country

Source: Bloomberg [both charts]. Note: Data as of October 2024. Figures in charts may not add to 100% due to rounding



6.0%

#### 2 SOVEREIGN DEBT PRODUCT PERFORMANCE COMPARISONS

#### 2.1 Global 10-Year Treasury Yields (Unhedged)

The U.S. 10-year Treasury yield moved to 4.29% at month-end October 2024, a month to month (MtM) increase of 50 bps. In August 2024, U.S. 10-year Treasury note rates dropped below UK 10-year note rates, marking the first time since October of 2023 that U.S. 10-year was not the highest government yield amongst the countries listed below. The UK, German, Italian and Japanese month-end yields all increased from the previous month.

The yield on the UK 10-year note increased to 4.44% at month-end October, a MtM increase of 44 bps.

The yield on the German 10-year note increased to 2.39% at month-end October, a MtM increase of 27 bps.

The yield on the Italian 10-year note increased to 3.65% at month-end October, a MtM increase of 20 bps.

The yield on the Japanese 10-year note increased to 0.94% at month-end October, a MtM increase of 9 bps.

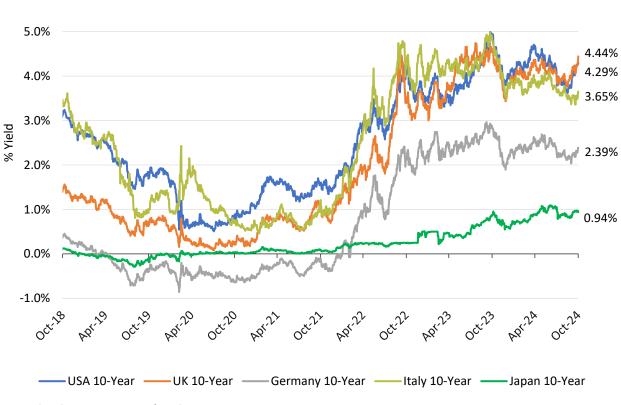


Figure 4. Global 10-Year Treasury Yields

Source: Bloomberg. Note: Data as of October 2024.



#### 2.2 U.S. Treasury Hedged Yields

The yield for the 10-year Treasury, hedged in Japanese Yen (JPY) stood at 0.30% at month-end October, a 21 bp increase from month-end September.

The yield for the 10-year Treasury, hedged in Euros (EUR) stood at 2.54% at month-end October, a 6 bp increase from month-end September.



#### Figure 5. U.S. 10 yr Total Return Hedged, 1 yr JPY





Source: Bloomberg. Notes: Data as of October 2024. The 10 yr Total Return Hedged Yields are calculated by taking the 10 yr treasury yield and subtracting the 1 yr hedge cost for JPY and EUR.

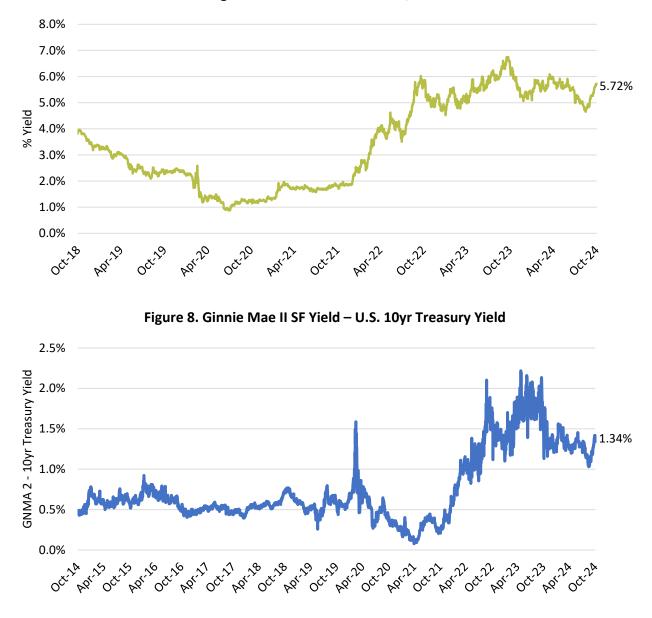


#### SECONDARY MORTGAGE MARKET

#### 3 FIXED INCOME PRODUCT PERFORMANCE COMPARISONS

#### 3.1 Ginnie Mae Yields – USD

Ginnie Mae II yields were 5.05% at month end August, then decreased 21 bps to 4.84% at month end September, then increased 88 bps to 5.72% at month end October. The Ginnie Mae II spread over the U.S. 10-year Treasury yield decreased 26 bps from 1.60% in October 2023 to 1.34% over the U.S. 10-year Treasury yield as of month-end October 2024.



#### Figure 7. Ginnie Mae II SF Yield, USD

Source: Bloomberg. Note: Data as of October 2024.



#### 3.2 Ginnie Mae Hedged Yields

The yield for Ginnie Mae II's hedged in Japanese Yen stood at 1.72% at month-end October, a 50 bp increase from month-end September. The hedged yield is approximately 78 bps higher than the Japanese 10-year yield as of month-end October 2024.

The yield for Ginnie Mae II's, hedged in Euros stood at 3.96% at month-end October, a 35 bp increase from month-end September. The hedged yield is approximately 157 bps higher than the German 10-year yield, and 31 bps higher than the Italian 10-year yield as of month-end October.

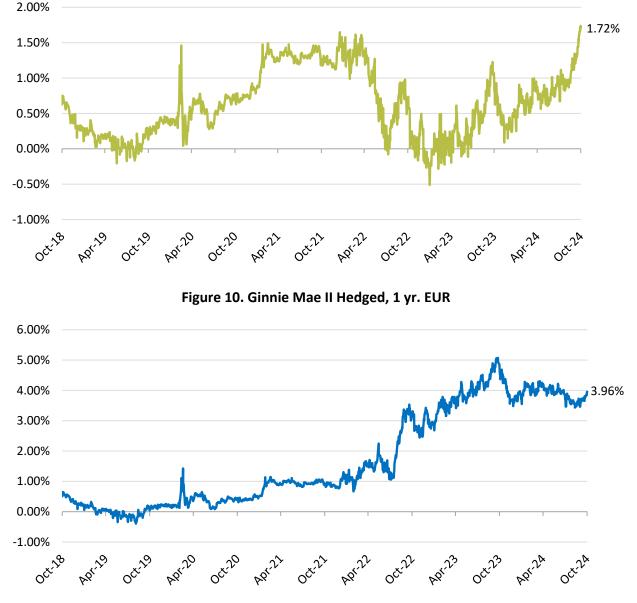


Figure 9. Ginnie Mae II Hedged, 1 yr. JPY

Source: Bloomberg. Notes: Data as of October 2024. The Ginnie Mae II Hedged Yields are calculated by taking the Ginnie Mae II Yield and subtracting the 1yr hedge cost for JPY and EUR.



#### 3.3 Ginnie Mae Yield Spreads – Intermediate Credit

The GNMA II 30-year OAS increased 3 bps to 0.49%, as of month-end October. The U.S. Intermediate Credit OAS decreased 5 bps to 0.67% from month-end September to month-end October. The yield differential between U.S. Intermediate Credit and GNMA II 30-year OAS decreased 8 bps to 0.18% at month-end October.

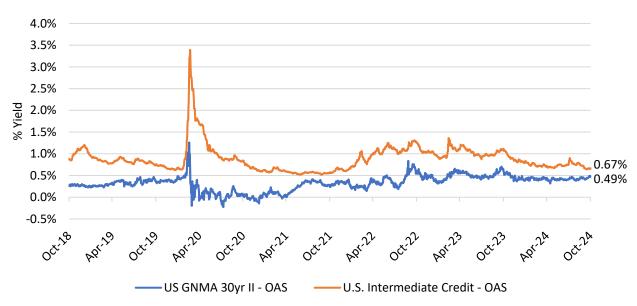
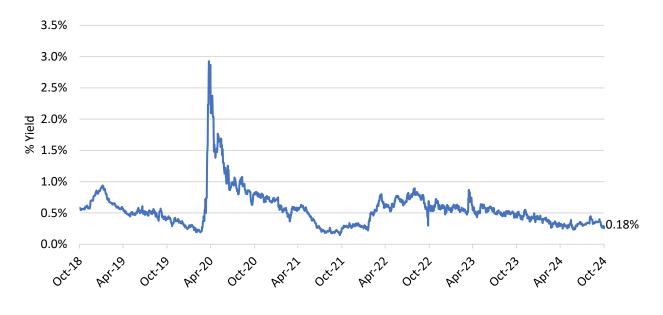


Figure 11. U.S. GNMA II 30yr MBS OAS versus U.S. Intermediate Credit OAS

Figure 12. Spread between U.S. Intermediate Credit and U.S. GNMA II 30yr MBS OAS

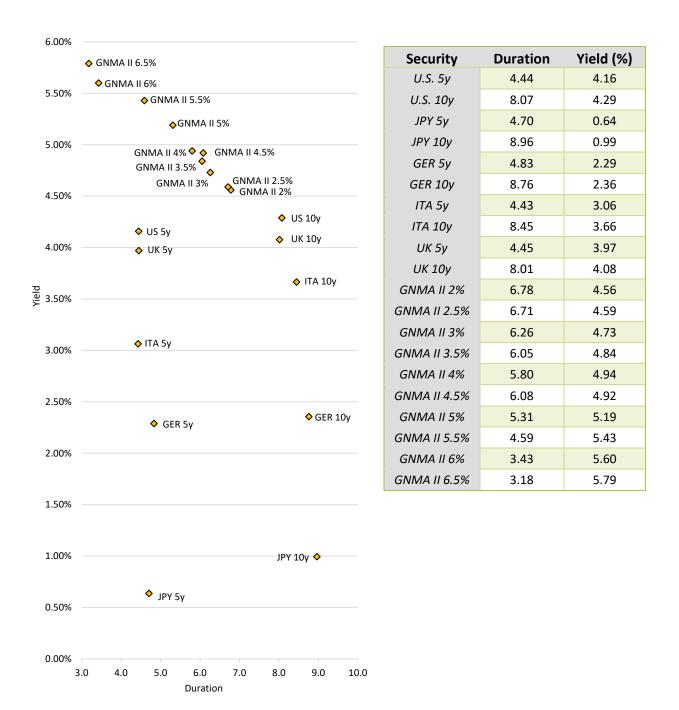


Source: Bloomberg. Note: Data as of October 2024.



#### 3.4 Global Treasury Yield Per Duration

Ginnie Mae MBS continues to offer a higher yield in comparison to other government fixed income securities of various tenors with similar or longer duration.



#### Figure 13. Yield vs. Duration

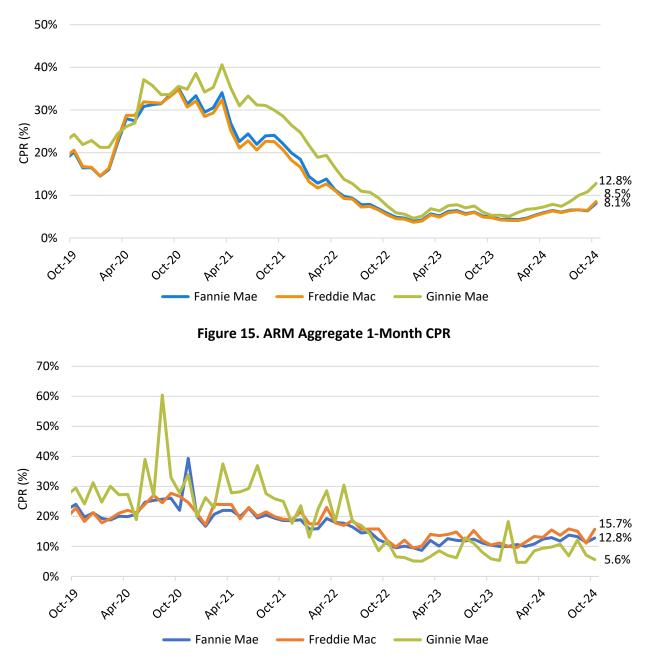
Source: Bloomberg. Note: Yield and modified duration for GNMA II securities is based on median prepayment assumptions from surveyed Bloomberg participants. All data is as of October 2024. Yields are in base currency of security, unhedged and rounded to nearest bp.



#### 4 PREPAYMENTS

#### 4.1 Aggregate Prepayments (CPR)

Freddie Mac's fixed rate aggregate prepayment speeds increased by 2.0% MtM from September 2024 to October 2024. Similarly, Fannie Mae CPRs increased by 1.8% MtM and Ginnie Mae CPRs increased by 2.0% MtM. ARM prepayments saw increases of 4.6% MtM for Freddie Mac and 1.5% MtM for Fannie Mae, and a decrease of 1.5% MtM for Ginnie Mae.



#### Figure 14. Fixed Rate Aggregate 1-Month CPR

Source: Recursion. Note: Data as of October 2024. Figures are rounded to the nearest tenth.



#### 4.2 Involuntary Prepayments (CDR)

Fixed rate involuntary prepayments remained higher for Ginnie Mae than for the GSEs. The spread in prepayment speeds between Ginnie Mae and GSE prepayments has converged significantly since Ginnie Mae's peak of 12.4 CDR in June 2020. ARM CDRs for Freddie Mac continued to remain below Ginnie Mae as of month-end October 2024 after slightly overtaking Ginnie Mae in September 2022.

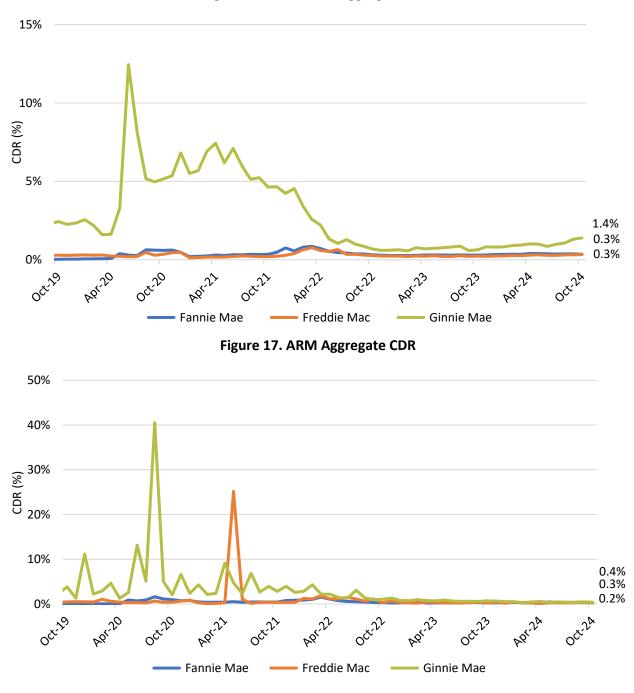


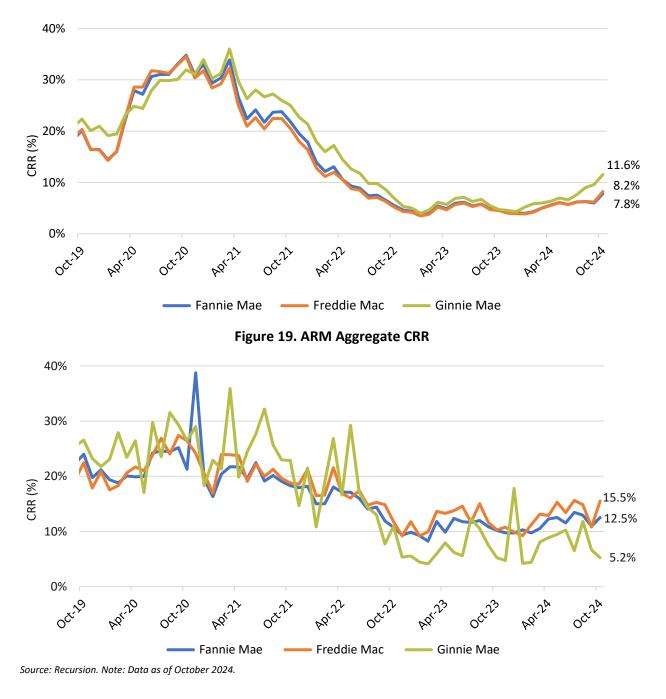
Figure 16. Fixed Rate Aggregate CDR

Source: Recursion. Note: Data as of October 2024.



#### 4.3 Voluntary Prepayment Rates (CRR)

Fixed rate voluntary prepayments were higher for Ginnie Mae than Fannie Mae and Freddie Mac. Fannie Mae saw an increase of 1.8% MtM and Ginnie Mae saw an increase of 2.0% MtM in fixed rate aggregate CRR. Fannie Mae saw an increase of 1.6% MtM in ARM aggregate CRR, and Ginnie Mae saw a 1.4% decrease MtM. Freddie Mac's fixed rate aggregate CRR increased by 2.0% MtM while ARM aggregate CRR increased by 4.7% MtM.



#### Figure 18. Fixed Rate Aggregate CRR

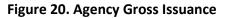
#### 5 SINGLE-FAMILY MBS PASS-THROUGH ISSUANCE

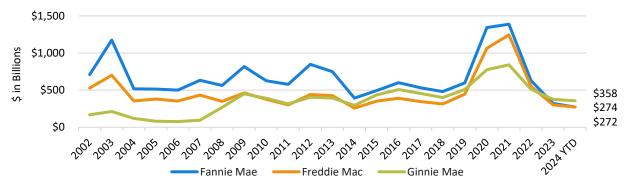
#### 5.1 Gross Issuance of Agency MBS

In October 2024, total gross MBS issuance was approximately \$109.7 billion. Of the \$109.7 billion total gross issuance in October, Freddie Mac and Fannie Mae issued \$36.1 and \$29.9 billion, respectively. Ginnie Mae's gross issuance for October was \$43.7 billion. Ginnie Mae's October YTD and monthly gross issuance exceeded that of both Fannie and Freddie.

Issuance Year	Fannie Mae	Freddie Mac	GSE Total	Ginnie Mae	Total
2002	\$710.0	\$529.0	\$1,238.9	\$169.0	\$1,407.9
2003	\$1,174.4	\$700.5	\$1,874.9	\$213.1	\$2,088.0
2004	\$517.5	\$355.2	\$872.6	\$119.2	\$991.9
2005	\$514.1	\$379.9	\$894.0	\$81.4	\$975.3
2006	\$500.2	\$352.9	\$853.0	\$76.7	\$929.7
2007	\$633.0	\$433.3	\$1,066.2	\$94.9	\$1,161.1
2008	\$562.7	\$348.7	\$911.4	\$267.6	\$1,179.0
2009	\$817.1	\$462.9	\$1,280.0	\$451.3	\$1,731.3
2010	\$626.6	\$377.0	\$1,003.5	\$390.7	\$1,394.3
2011	\$578.2	\$301.2	\$879.3	\$315.3	\$1,194.7
2012	\$847.6	\$441.3	\$1,288.8	\$405.0	\$1,693.8
2013	\$749.9	\$426.7	\$1,176.6	\$393.6	\$1,570.2
2014	\$392.9	\$258.0	\$650.9	\$296.3	\$947.2
2015	\$493.9	\$351.9	\$845.7	\$436.3	\$1,282.0
2016	\$600.5	\$391.1	\$991.6	\$508.2	\$1,499.8
2017	\$531.3	\$345.9	\$877.3	\$455.6	\$1,332.9
2018	\$480.9	\$314.1	\$795.0	\$400.6	\$1,195.6
2019	\$597.4	\$445.2	\$1,042.6	\$508.6	\$1,551.2
2020	\$1,343.4	\$1,064.1	\$2,407.5	\$775.4	\$3,182.9
2021	\$1,388.0	\$1,245.1	\$2,633.1	\$840.9	\$3,474.0
2022	\$628.3	\$551.6	\$1,179.9	\$512.3	\$1,692.2
2023	\$320.3	\$301.4	\$621.8	\$375.5	\$997.3
2024 YTD	\$272.4	\$273.6	\$546.0	\$357.6	\$903.6

#### Table 1. Agency Gross Issuance (\$ in billions)





Source: Recursion. Note: Numbers are rounded to the nearest hundred million. For sums, like "GSE Total", the values are rounded after the exact underlying values are summed. As a result, some sums may not appear to match the sum of their rounded component values.



Issuance Year	FHA	VA	Other	Total
2002	\$128.6	\$37.9	\$2.5	\$169.0
2003	\$147.9	\$62.7	\$2.5	\$213.1
2004	\$85.0	\$31.8	\$2.5	\$119.2
2005	\$55.7	\$23.5	\$2.1	\$81.4
2006	\$51.2	\$23.2	\$2.3	\$76.7
2007	\$67.7	\$24.2	\$3.0	\$94.9
2008	\$221.7	\$39.0	\$6.9	\$267.6
2009	\$359.9	\$74.6	\$16.8	\$451.3
2010	\$304.9	\$70.6	\$15.3	\$390.7
2011	\$216.1	\$82.3	\$16.9	\$315.3
2012	\$253.4	\$131.3	\$20.3	\$405.0
2013	\$239.2	\$132.2	\$22.2	\$393.6
2014	\$163.9	\$111.4	\$21.0	\$296.3
2015	\$261.5	\$155.6	\$19.2	\$436.3
2016	\$281.8	\$206.5	\$19.9	\$508.2
2017	\$257.6	\$177.8	\$20.2	\$455.6
2018	\$222.6	\$160.8	\$17.2	\$400.6
2019	\$266.9	\$225.7	\$16.0	\$508.6
2020	\$327.0	\$423.5	\$24.9	\$775.4
2021	\$392.2	\$422.1	\$26.7	\$840.9
2022	\$275.8	\$221.7	\$14.8	\$512.3
2023	\$227.6	\$140.3	\$7.7	\$375.5
2024 YTD	\$206.2	\$145.8	\$5.7	\$357.6

#### Table 2. Ginnie Mae Gross Issuance Collateral Composition (\$ in billions)

Figure 21. Ginnie Mae Gross Issuance



Source: Recursion. Note: Numbers are rounded to the nearest hundred million. For sums, like "Total", the values are rounded after the exact underlying values are summed. As a result, some sums may not appear to match the sum of their rounded component values.



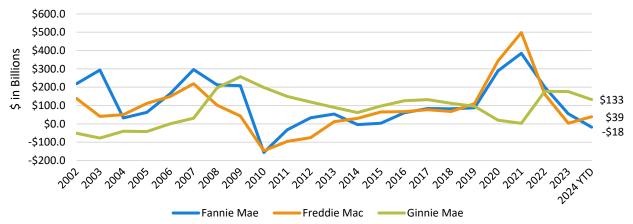
#### 5.2 Net Issuance of Agency MBS

Agency Net Issuance as of month-end October was \$152.9 billion for 2024 YTD, as shown in **Table 3**. Ginnie Mae has the largest net issuance YTD, totaling \$132.5 billion as of month-end October 2024. Since 2022, FHA net issuance has outpaced VA net issuance, as shown in **Table 4 and Figure 23**.

Issuance Year	Fannie Mae	Freddie Mac	GSE Total	Ginnie Mae	Total
2002	\$218.9	\$138.3	\$357.2	-\$51.2	\$306.1
2003	\$293.7	\$41.1	\$334.9	-\$77.6	\$257.3
2004	\$32.3	\$50.2	\$82.5	-\$40.1	\$42.4
2005	\$62.5	\$111.7	\$174.2	-\$42.2	\$132.0
2006	\$164.3	\$149.3	\$313.6	\$0.2	\$313.8
2007	\$296.1	\$218.8	\$514.9	\$30.9	\$545.7
2008	\$213.0	\$101.8	\$314.8	\$196.4	\$511.3
2009	\$208.1	\$42.5	\$250.6	\$257.4	\$508.0
2010	-\$156.4	-\$146.8	-\$303.2	\$198.3	-\$105.0
2011	-\$32.6	-\$95.8	-\$128.4	\$149.6	\$21.2
2012	\$32.9	-\$75.3	-\$42.4	\$119.1	\$76.8
2013	\$53.5	\$11.8	\$65.3	\$89.6	\$154.9
2014	-\$4.0	\$30.0	\$26.0	\$61.6	\$87.7
2015	\$3.5	\$65.0	\$68.4	\$97.3	\$165.7
2016	\$60.5	\$66.8	\$127.4	\$126.1	\$253.5
2017	\$83.7	\$77.0	\$160.7	\$132.3	\$293.0
2018	\$81.9	\$67.6	\$149.4	\$112.0	\$261.5
2019	\$87.4	\$110.3	\$197.7	\$95.7	\$293.5
2020	\$289.3	\$343.5	\$632.8	\$19.9	\$652.7
2021	\$384.9	\$498.0	\$882.9	\$2.7	\$885.6
2022	\$200.4	\$161.5	\$361.9	\$177.4	\$539.4
2023	\$55.3	\$3.3	\$58.6	\$176.3	\$235.0
2024 YTD	-\$18.2	\$38.6	\$20.4	\$132.5	\$152.9

#### Table 3. Agency Net Issuance (\$ in billions)





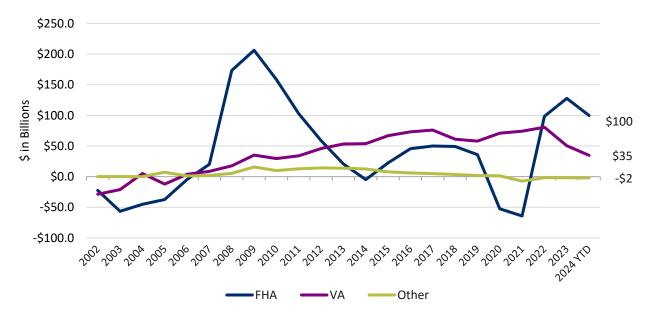
Source: Recursion. Note: Numbers are rounded to the nearest hundred million. For sums, like "GSE Total", the values are rounded after the exact underlying values are summed. As a result, some sums may not appear to match the sum of their rounded component values.



Issuance Year	FHA	VA	Other	Total
2002	-\$22.5	-\$28.7	\$0.0	-\$51.2
2003	-\$56.5	-\$21.1	\$0.0	-\$77.6
2004	-\$45.2	\$5.1	\$0.0	-\$40.1
2005	-\$37.3	-\$12.1	\$7.2	-\$42.2
2006	-\$4.7	\$3.8	\$1.2	\$0.2
2007	\$20.2	\$8.7	\$2.0	\$30.9
2008	\$173.3	\$17.7	\$5.4	\$196.4
2009	\$206.4	\$35.1	\$15.8	\$257.4
2010	\$158.6	\$29.6	\$10.0	\$198.3
2011	\$102.8	\$34.0	\$12.8	\$149.6
2012	\$58.9	\$45.9	\$14.3	\$119.1
2013	\$20.7	\$53.3	\$13.9	\$87.9
2014	-\$4.8	\$53.9	\$12.5	\$61.6
2015	\$22.5	\$66.9	\$7.9	\$97.3
2016	\$45.6	\$73.2	\$6.0	\$124.9
2017	\$50.1	\$76.1	\$5.0	\$131.2
2018	\$49.2	\$61.2	\$3.5	\$113.9
2019	\$35.9	\$58.0	\$1.9	\$95.7
2020	-\$52.5	\$71.0	\$1.3	\$19.9
2021	-\$64.2	\$74.2	-\$7.3	\$2.7
2022	\$98.5	\$80.7	-\$1.7	\$177.4
2023	\$127.7	\$50.4	-\$1.8	\$176.3
2024 YTD	\$99.8	\$34.8	-\$2.1	\$132.5

#### Table 4. Ginnie Mae Net Issuance Collateral Composition (\$ in billions)





Source: Recursion. Note: Numbers are rounded to the nearest hundred million. For sums, like "Total", the values are rounded after the exact underlying values are summed. As a result, some sums may not appear to match the sum of their rounded component values.



#### 5.3 Monthly Issuance Breakdown

Agency net issuance for the month of October was approximately \$10.5 billion, which represents an approximate \$7.0 billion decrease MtM. Ginnie Mae net issuance was \$10.7 billion in October, a \$4.4 billion decrease from September. Ginnie Mae's \$43.7 billion gross issuance in October, seen in **Table 5**, was approximately \$12.4 billion above the average monthly issuance in 2023.

Agency Gross Issuance Amount (in \$ Billions)					Agency Net Issuance Amount (in \$ Billions)					
Month	Fannie Mae	Freddie Mac	Ginnie Mae	GSEs	Total	Fannie Mae	Freddie Mac	Ginnie Mae	GSEs	Total
Oct-21	\$105.1	\$102.7	\$62.5	\$207.8	\$270.3	\$34.6	\$46.9	\$1.9	\$81.5	\$83.4
Nov-21	\$93.6	\$81.1	\$60.8	\$174.7	\$235.5	\$29.5	\$40.9	\$3.1	\$64.4	\$67.6
Dec-21	\$93.7	\$85.4	\$58.9	\$174.7	\$233.5	\$33.8	\$34.9	\$5.7	\$68.3	\$73.9
Jan-22	\$93.1	\$85.9	\$59.0	\$179.0	\$238.0	\$45.6	\$37.6	\$14.0	\$83.2	\$97.3
Feb-22	\$73.3	\$64.6	\$49.0	\$175.0	\$186.9	\$27.8	\$22.7	\$9.7	\$50.5	\$60.2
Mar-22	\$76.8	\$62.9	\$47.4	\$139.7	\$187.1	\$22.6	\$23.1	\$6.9	\$45.7	\$52.6
Apr-22	\$65.3	\$53.5	\$47.8	\$118.8	\$166.6	\$19.5	\$17.7	\$13.2	\$37.2	\$50.4
May-22	\$54.7	\$43.7	\$45.0	\$98.4	\$143.4	\$13.6	\$12.5	\$15.5	\$26.1	\$41.6
Jun-22	\$54.5	\$42.0	\$43.6	\$96.5	\$140.1	\$14.8	\$10.7	\$16.0	\$25.5	\$41.5
Jul-22	\$46.8	\$40.3	\$42.4	\$87.1	\$129.5	\$12.1	\$14.4	\$18.0	\$26.5	\$44.5
Aug-22	\$39.8	\$46.3	\$40.3	\$86.1	\$126.4	\$4.8	\$19.8	\$16.2	\$24.6	\$40.8
Sep-22	\$39.3	\$38.2	\$39.9	\$77.5	\$117.4	\$7.6	\$13.9	\$18.3	\$21.5	\$39.8
Oct-22	\$34.1	\$26.1	\$35.5	\$60.2	\$95.7	\$5.8	\$4.7	\$17.3	\$10.5	\$27.8
Nov-22	\$25.7	\$22.7	\$33.6	\$48.4	\$82.0	\$0.3	\$3.5	\$18.3	\$3.8	\$22.1
Dec-22	\$24.9	\$25.5	\$28.8	\$50.4	\$79.2	\$0.2	\$6.6	\$14.0	\$6.8	\$20.8
Jan-23	\$25.7	\$22.4	\$27.1	\$48.1	\$75.2	\$3.4	\$5.3	\$14.1	\$8.7	\$22.8
Feb-23	\$18.9	\$16.5	\$22.7	\$35.4	\$58.1	-\$4.4	-\$1.4	\$8.6	-\$5.8	\$2.8
Mar-23	\$23.6	\$19.2	\$26.2	\$42.8	\$69.0	-\$4.4	-\$2.4	\$8.7	-\$6.8	\$1.9
Apr-23	\$27.7	\$21.0	\$31.6	\$48.7	\$80.3	\$1.4	\$0.6	\$15.0	\$2.0	\$17.0
May-23	\$30.4	\$29.0	\$32.6	\$59.4	\$92.0	\$0.6	\$6.0	\$13.5	\$6.6	\$20.1
Jun-23	\$33.5	\$32.9	\$37.5	\$66.4	\$103.9	\$3.1	\$9.3	\$17.8	\$12.4	\$30.2
Jul-23	\$31.7	\$27.9	\$36.3	\$59.6	\$95.9	\$3.6	\$5.9	\$18.0	\$9.5	\$27.5
Aug-23	\$27.8	\$27.9	\$36.5	\$55.7	\$92.2	-\$1.5	\$4.8	\$17.2	\$3.3	\$20.5
Sep-23	\$28.1	\$31.1	\$35.1	\$59.2	\$94.3	\$1.9	\$10.7	\$18.6	\$12.6	\$31.2
Oct-23	\$28.2	\$24.5	\$32.1	\$52.7	\$84.8	\$2.6	\$4.5	\$17.0	\$7.1	\$24.1
Nov-23	\$23.8	\$25.3	\$30.5	\$49.1	\$79.5	-\$0.1	\$6.5	\$15.2	\$6.4	\$21.6
Dec-23	\$20.9	\$23.9	\$27.3	\$44.8	\$72.1	-\$2.9	\$5.4	\$12.6	\$2.5	\$15.0
Jan-24	\$23.3	\$17.7	\$27.1	\$41.1	\$68.2	-\$0.3	-\$0.6	\$10.4	-\$0.9	\$9.5
Feb-24	\$20.5	\$17.7	\$29.6	\$38.1	\$67.7	-\$4.2	-\$1.7	\$11.3	-\$5.9	\$5.5
Mar-24	\$21.3	\$25.3	\$31.2	\$46.6	\$77.8	-\$5.5	\$3.9	\$12.4	-\$1.7	\$10.7
Apr-24	\$25.0	\$26.3	\$33.8	\$51.4	\$85.2	-\$3.8	\$3.4	\$14.1	-\$0.3	\$13.8
May-24	\$26.6	\$29.0	\$35.7	\$55.6	\$91.4	-\$3.7	\$4.5	\$14.5	\$0.7	\$15.3
Jun-24	\$33.3	\$27.3	\$35.3	\$60.6	\$95.9	\$4.2	\$3.9	\$15.0	\$8.1	\$23.1
Jul-24	\$32.6	\$26.6	\$38.2	\$59.2	\$97.4	\$1.9	\$2.0	\$15.4	\$3.9	\$19.3
Aug-24	\$34.4	\$35.7	\$39.8	\$70.0	\$109.8	\$3.5	\$10.5	\$13.6	\$14.0	\$27.6
Sep-24	\$25.4	\$31.9	\$43.3	\$57.3	\$100.6	-\$4.6	\$7.1	\$15.1	\$2.5	\$17.6
Oct-24	\$29.9	\$36.1	\$43.7	\$66.0	\$109.7	-\$5.7	\$5.6	\$10.7	-\$0.1	\$10.5

#### Table 5. Agency Issuance (\$ in billions)

Sources: Data for Gross and Net Issuance was sourced from Fannie Mae, Freddie Mac, and Ginnie Mae Ioan level disclosure files. Net issuance is defined here as the difference between prior period UPB and current period UPB. Data as of October 2024. Beginning with the October 2021 GMAR, the Fannie Mae and Freddie Mac net issuance data is updated to reflect the current UPB of the portfolios. September 2021 through October 2024 GMAR net issuance data reflect the UPB at security issuance for Fannie Mae and Freddie Mac. Note: Numbers are rounded to the nearest hundred million.

#### 5.4 Percent Refi at Issuance – Single-Family

Refinance activity increased by approximately 24.7% MoM for Ginnie Mae as of month-end October 2024.

Freddie Mac's refinance percentage increased to 23.3% in October, up from 15.7% in September.

Fannie Mae's refinance percentage increased to 24.0% in October, up from 17.1% in September. Ginnie Mae's refinance percentage increased to 35.4% in October, up from 28.4% in September.

FHA's refinance percentage increased to 25.5% in October, up from 20.5% in September.

VA's refinance percentage increased to 48.3% in October, up from 39.2% in September.

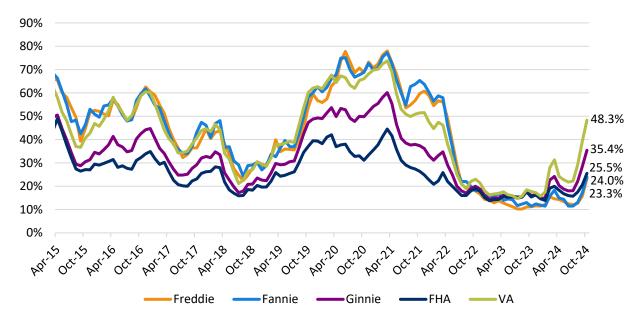


Figure 24. Percent Refinance at Issuance – Single-Family

Source: Recursion. Note: Data as of October 2024.



#### 6 AGENCY SINGLE-FAMILY MBS OUTSTANDING

#### 6.1 Outstanding Single-Family Agency MBS

As of month-end October 2024, outstanding Single-Family MBS in the Agency market totaled \$8.99 trillion: 39.6% Fannie Mae, 33.2% Freddie Mac, and 27.2% Ginnie Mae MBS. Over the past twelve months, Freddie Mac's total outstanding MBS increased by approximately 1.7%, and Ginnie Mae's increased by 7.0%. Fannie Mae's total outstanding MBS decreased by 0.6%. Fannie Mae's outstanding MBS remains larger than Freddie Mac's and Ginnie Mae's outstanding MBS by approximately \$570 billion and \$1.1 trillion, respectively.

Ginnie Mae's MBS collateral composition has changed over time as shown in **Figure 26.** In October 2019, 58.9% of Ginnie Mae's outstanding collateral was FHA and 35.2% was VA. As of month-end October 2024, FHA collateral comprised 55.5% of Ginnie Mae MBS outstanding, and VA collateral comprised 40.4% of Ginnie Mae MBS outstanding.

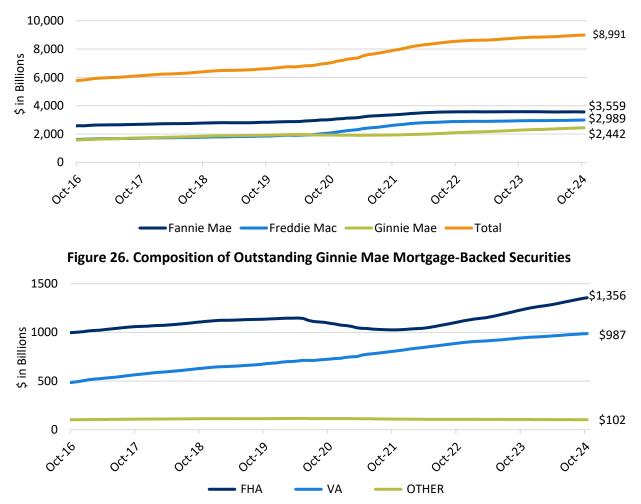


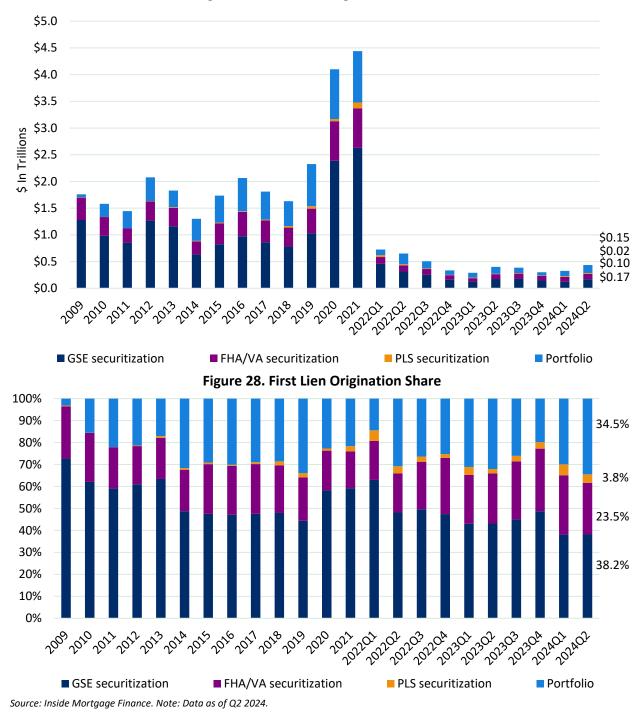
Figure 25. Outstanding Agency Mortgage-Backed Securities

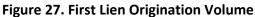
Source: Recursion. Note: Data as of October 2024. Note: Data rounded to nearest billion; GNMA composition may not add up to total outstanding amount due to rounding.



#### 6.2 Origination Volume and Share Over Time

First lien origination volume increased in Q2 2024, with approximately \$435 billion in originations, which represents an increase in issuance of 33.8% from Q1 2024. Ginnie Mae's share of total origination decreased from 27.0% to 23.5% in Q2 2024, while portfolio origination increased from 29.9% to 34.5%.







#### 6.3 Agency Issuance and Agency Outstanding by State

Ginnie Mae MBS represents approximately 39% of new Agency issuance over the past year, roughly 11% higher than Ginnie Mae's 28% share of Agency outstanding. The share of Ginnie Mae's new Agency issuance varies across states, with the largest share by UPB being in Mississippi (61%) and the smallest in the District of Columbia (22%). The highest Ginnie Mae outstanding share is in Mississippi (50%) and the lowest in the District of Columbia (14%).

		Agency Issuand	ce (past 1 year)	Agency Outstanding (past 1 year)				
	GNMA Share by UPB	GNMA Loan Count	GNMA Avg. Loan Size (000)	GSE Avg. Loan Size (000)	GNMA Share by UPB	GNMA Loan Count	GNMA Avg. Loan Size (000)	GSE Avg. Loan Size (000)
Vational	39%	1,525,512	319.86	317.20	28%	11,464,129	215.76	212.30
AK	60%	3,893	373.42	320.82	49%	37,822	266.16	218.89
AL	56%	38,206	250.30	251.32	43%	255,876	169.03	179.23
AR	48%	19,812	218.06	245.47	41%	144,663	141.83	164.51
AZ	43%	48,884	357.28	353.99	28%	305,430	240.09	229.46
CA	34%	90,743	503.64	493.73	18%	737,010	342.30	317.07
CO	38%	32,657	439.57	419.96	25%	228,544	309.45	280.33
СТ	30%	10,501	310.33	314.70	26%	109,187	207.67	209.46
DC	22%	966	556.37	473.01	14%	9,529	396.47	344.63
DE	39%	6,431	307.44	318.66	32%	55,080	211.67	213.39
FL	46%	149,595	338.10	329.01	35%	944,238	231.52	218.09
GA	47%	79,351	297.16	322.95	36%	534,072	195.93	211.89
HI	46%	3,509	660.07	549.64	33%	35,013	475.16	356.08
	32%	11,379	210.67	213.60	24%	87,092	141.74	148.54
IA								
ID	39%	10,565	365.80	339.33	26%	69,401	239.29	226.73
IL	27%	42,618	237.02	268.29	23%	384,031	165.24	179.92
IN	39%	40,345	223.15	228.07	32%	294,310	144.57	154.11
KS	39%	13,232	222.00	238.67	30%	99,740	148.39	165.19
KY	48%	25,287	225.41	231.93	37%	175,922	152.87	157.33
LA	55%	26,019	222.43	240.58	43%	215,866	162.65	175.77
MA	26%	13,651	429.82	426.80	17%	120,003	295.82	267.88
MD	45%	34,494	383.81	363.35	35%	307,004	272.08	248.64
ME	34%	4,964	285.66	303.73	27%	39,409	187.02	194.71
MI	28%	33,985	216.61	234.90	21%	286,365	140.56	157.32
MN	24%	17,379	284.03	293.67	19%	163,746	189.52	199.18
MO	38%	33,326	228.92	241.75	30%	254,732	150.65	163.85
MS	61%	17,613	224.42	228.40	50%	131,188	152.55	161.77
MT	37%	4,111	361.67	336.28	25%	33,358	223.40	218.71
NC	42%	69,551	291.85	313.68	31%	445,097	191.64	206.87
ND	38%	2,213	271.28	261.26	26%	17,559	198.65	182.04
NE	37%	8,481	252.61	243.77	28%	67,092	160.11	162.67
NH	28%	4,450	368.01	351.71	23%	39,235	236.56	218.63
NJ	29%	26,379	377.14	392.13	22%	241,170	251.07	255.65
NM	51%	12,638	281.27	285.50	40%	100,423	178.36	181.22
NV	46%	21,111	386.15	358.39	33%	145,823	265.16	239.05
NY	25%	27,903	341.95	357.75	21%	315,963	219.49	249.40
ОН	36%	54,705	218.17	224.01	30%	442,267	138.55	151.66
OK	51%	25,911	229.22	232.61	43%	198,498	150.65	164.86
OR	32%	15,118	385.60	389.49	21%	118,139	266.77	255.09
PA	29%	40,281	231.96	270.60	26%	401,133	153.78	183.49
RI	43%	4,466	386.49		32%	37,896	248.43	214.41
SC	43%		286.86	349.88 282.71	37%	258,917	197.61	195.46
		42,279						
SD	43%	4,338	275.13	257.81	32%	30,771	184.29	177.88
TN	44%	45,362	299.66	308.45	33%	287,616	193.48	210.03
TX	43%	175,910	305.01	327.93	34%	1,212,997	200.08	219.21
UT	37%	17,048	417.60	411.50	21%	105,999	284.65	267.04
VA	48%	54,431	373.98	362.85	37%	463,853	265.24	249.98
VI	23%	60	417.18	446.92	24%	802	266.85	307.83
VT	23%	1,247	280.58	293.36	19%	12,404	185.52	182.81
WA	34%	30,363	440.93	444.70	23%	243,988	299.10	291.54
WI	26%	15,967	247.01	252.63	18%	128,069	163.76	163.47
WV	55%	8,230	224.05	204.91	46%	63,873	151.18	145.45
WY	49%	3,554	309.89	287.37	37%	25,914	214.68	201.42

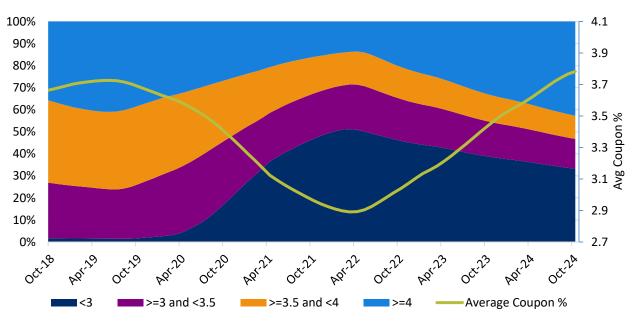
#### Table 6. Agency Issuance Breakdown by State

Source: Recursion. Note: Outstanding balance based on loan balance as of October 2024. Values above are based on loan level disclosure data, thus excluding loan balances for first 6 months that loans are in a pool. This accounts for the difference in share of outstanding MBS represented above & in <u>Outstanding Single-Family Agency MBS</u>.



#### 6.4 Outstanding Ginnie Mae MBS Volume by Coupon and Vintage Over Time

As of month-end October 2024, the weighted average coupon (WAC) on outstanding Ginnie Mae MBS increased from 3.77% in September 2024 to 3.78% as seen in **Figure 29**. **Figure 30** illustrates that loans originated since 2019 account for approximately 84% of Ginnie Mae MBS collateral outstanding.



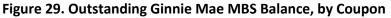
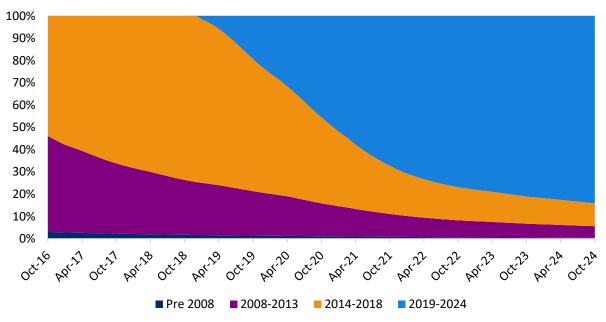


Figure 30. Outstanding Ginnie Mae MBS Balance, by Vintage

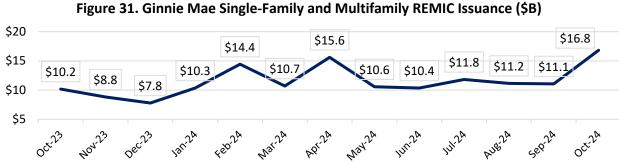


Source: Recursion. Note: October 2024 data points reflect the current composition of balances by coupon and vintage; factor data is not applied to prior date balance compositions. Average coupon is weighted by remaining principal balance.

#### 7 AGENCY REMIC SECURITIES

#### 7.1 Monthly REMIC Demand for Ginnie Mae MBS

Ginnie Mae Single-Family and Multifamily Real Estate Mortgage Investment Conduit (REMIC) issuance volume for the month of October was approximately \$16.8 billion. This represents a 51.97% MoM increase from \$11.1 billion in September 2024, and a 65.38% increase YoY from \$10.2 billion in October 2023. Approximately \$681.1 million of the October 2024 issuance volume were Multifamily MBS having coupons over 5.0%, and approximately \$14.5 billion were Single-Family MBS having coupons over 5.0%.



OCT NOVE	Decit sanit repit	Wall Boll Wa	We which which	AUST SEAL OCT
	Table 7. Octol	ber 2024 REMIC Issu	ance Breakdown	
Net Coupon (%)	Principal (\$MM) fo	r Principal (\$MM) foi	r Principal % for	Principal % fo
ltifamily	MBS Deals	<b>Re-REMIC Deals</b>	<b>MBS</b> Deals	Re-REMIC Dea
<2.01	-	\$43.6	-	3.9%
3.01-3.51	\$121.7	-	10.9%	-

Multifamily	MBS Deals	Re-REMIC Deals	MBS Deals	<b>Re-REMIC</b> Deals
<2.01	-	\$43.6	-	3.9%
3.01-3.51	\$121.7	-	10.9%	-
4.01-5.01	273.6	-	24.4%	-
5.01-6.01	\$681.1	-	60.8%	-
Subtotal	\$1,076.4	\$43.6	96.1%	3.9%
Single-Family				
<2.01	-	\$65.9	-	0.4%
2.01-2.51	\$59.2	\$5.0	0.4%	0.0%
2.51-3.01	\$83.2	\$16.0	0.5%	0.1%
3.01-3.51	\$99.5	-	0.6%	-
3.51-4.01	\$316.0	-	2.0%	-
4.01-4.51	-	\$61.6	-	0.4%
4.51-5.01	\$34.4	\$70.1	0.2%	0.4%
5.01-5.51	\$3,549.6	\$210.7	22.6%	1.3%
5.51-6.01	\$5,380.9	\$103.3	34.3%	0.7%
6.01-6.51	\$4,438.4	\$38.6	28.3%	0.2%
6.51-7.01	\$929.3	\$26.8	5.9%	0.2%
>7.01	\$210.1	-	1.3%	-
Subtotal	\$15,100.7	\$598.1	96.2%	3.8%
Grand Total <sup>1</sup>	\$16,177.0	\$641.7	96.2%	3.8%

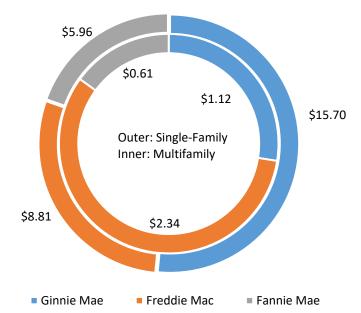
excludes principal amo

<sup>1</sup> Totals may not sum due to rounding. Percents calculated using weighted average.



#### 7.2 REMIC Market Snapshot

- In October 2024, Ginnie Mae's total Single-Family, Multifamily, and HMBS REMIC issuance totaled \$17.4 billion, a 48.9% or \$5.7 billion increase MoM.
- In October 2024, total Single-Family and Multifamily issuance across the three Agencies increased 40.0% or \$9.9 billion MoM.
- In October 2024, Ginnie Mae saw a decrease in their Single-Family REMIC issuance collateral coupon of 4 bps, while Fannie Mae and Freddie Mac saw an increase of 51 and 30 bps, respectively.
- In October 2024, Freddie Mac saw an increase in their Multifamily REMIC issuance collateral coupon of 49 bps. Ginnie Mae saw a decrease of 59 bps in their Multifamily REMIC issuance collateral coupon. Fannie Mae saw an increase of 42 bps since their last Multifamily REMIC issued in July 2024.



#### Figure 32. October 2024 REMIC Issuance by Agency (\$B)

Table 8.	October 202	4 REMIC Iss	uance by	Agency
----------	-------------	-------------	----------	--------

	SF REMIC Issuance Volume (\$B)	% of SF REMIC Issuance Volume	Number of SF REMIC Transactions	MF REMIC Issuance Volume (\$B)	% of MF REMIC Issuance Volume	Number of MF REMIC Transactions
Ginnie Mae	\$15.70	52%	12	\$1.12	28%	9
Freddie Mac	\$8.81	29%	10	\$2.34	57%	6
Fannie Mae	\$5.96	20%	10	\$0.61	15%	1
Total <sup>2</sup>	\$30.47	100%	32	\$4.07	100%	16

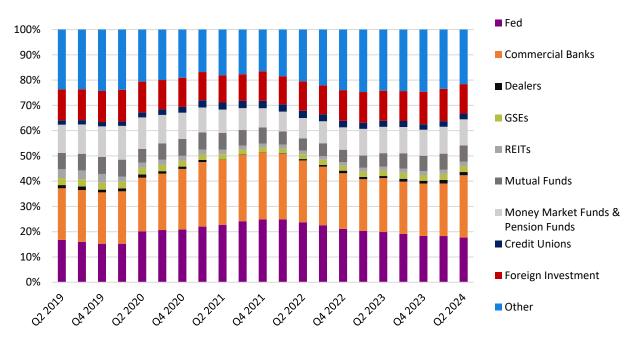
Source: Relay & FDS files posted to Ginnie Mae, Fannie Mae, and Freddie Mac

<sup>&</sup>lt;sup>2</sup> Totals may not sum due to rounding.



#### 8 MBS OWNERSHIP

In Q2 2024, the largest holders of Agency debt (Agency MBS plus Agency notes and bonds) included commercial banks (25%), the Federal Reserve (18%), and foreign investors (12%). The Federal Reserve's share roughly held even quarter over quarter (QoQ). Out of the approximately \$2.65 trillion in holdings as of the end of October 2024, roughly \$1.99 trillion was held by the top 25 domestic banks per **Table 9** below.



#### Figure 33. Who Owns Total Agency Debt?

Source: Federal Reserve Flow of Funds. Note: The "other" category includes primarily life insurance companies, state and local governments, households, and nonprofits. Data as of Q2 2024.

#### 8.1 Commercial Bank Holdings of Agency MBS

					0				
	Commercial Bank Holdings (\$Billions)								
	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24
Largest 25 Domestic Banks	\$1,920.4	\$1,919.6	\$1,912.7	\$1,913.1	\$1,946.1	\$1,957.4	\$1,975.1	\$1,549.5	\$1,994.3
Small Domestic Banks	\$579.4	\$583.4	\$591.3	\$586.6	\$591.0	\$596.1	\$601.1	\$612.9	\$621.1
Foreign Related Banks	\$34.1	\$30.7	\$29.5	\$30.4	\$31.2	\$30.6	\$33.9	\$36.3	\$37.3
Total, Seasonally Adjusted	\$2,533.9	\$2,533.7	\$2,533.5	\$2,530.1	\$2,568.3	\$2,584.1	\$2,610.1	\$2,198.7	\$2,652.7

#### **Table 9. Commercial Bank Holdings of Agency MBS**

Source: Federal Reserve Bank. Note: Small domestic banks include all domestically chartered commercial banks not included in the top 25. Data as of October 2024.



#### 8.2 Bank and Thrift Residential MBS Holdings

Total MBS holdings at banks and thrifts decreased approximately 0.4% from Q1 2024 to Q2 2024. Although total MBS holdings at banks and thrifts decreased in Q2 2024, Ginnie Mae PT and Agency CMO holdings increased 4.3% and 1.6% QoQ, respectively. Ginnie Mae PT holdings also marked the largest increase over the past year, increasing 14.3% from Q2 of 2023. Out of the \$2.22 trillion in MBS holdings at banks and thrifts as of Q2 2024, \$1.28 trillion were GSE pass-throughs and \$438 billion were Ginnie Mae pass-throughs. Private MBS holdings showed the largest percentage decrease of 29.0% from Q2 2023 to Q2 2024.

			All MBS (\$	in billions)				
Year	Total	GSE PT	GNMA PT	Private MBS	Agency CMO	Private CMO	Banks	Thrifts
2003	\$899.9	\$461.7	\$75.1	\$19.4	\$236.8	\$106.9	\$775.7	\$206.5
2004	\$1,011.0	\$572.4	\$49.3	\$20.5	\$208.2	\$160.6	\$879.8	\$234.3
2005	\$1,033.8	\$566.8	\$35.9	\$29.1	\$190.7	\$211.2	\$897.1	\$242.7
2006	\$1,124.5	\$628.5	\$31.1	\$42.3	\$179.2	\$243.3	\$983.5	\$223.4
2007	\$1,149.1	\$559.8	\$31.6	\$26.3	\$174.3	\$357.2	\$971.4	\$264.6
2008	\$1,218.8	\$638.8	\$100.4	\$12.9	\$207.7	\$259.0	\$1,088.0	\$211.7
2009	\$1,275.5	\$629.2	\$155.0	\$7.5	\$271.2	\$212.6	\$1,161.7	\$184.1
2010	\$1,433.4	\$600.8	\$163.1	\$7.3	\$397.3	\$181.6	\$1,233.3	\$200.1
2011	\$1,566.9	\$627.4	\$214.8	\$3.3	\$478.8	\$167.7	\$1,359.2	\$207.6
2012	\$1,578.9	\$707.9	\$242.5	\$17.2	\$469.3	\$138.7	\$1,430.6	\$148.2
2013	\$1,506.6	\$706.0	\$231.9	\$26.1	\$432.6	\$114.2	\$1,363.7	\$142.9
2014	\$1,539.3	\$733.7	\$230.5	\$20.3	\$449.9	\$104.9	\$1,409.8	\$129.5
2015	\$1,643.6	\$823.1	\$292.3	\$11.1	\$445.4	\$71.6	\$1,512.7	\$130.9
2016	\$1,736.9	\$930.7	\$323.5	\$7.4	\$419.8	\$55.6	\$1,576.1	\$160.9
2017	\$1,844.1	\$1,010.8	\$367.7	\$4.6	\$414.0	\$47.0	\$1,672.9	\$171.2
2018	\$1,815.0	\$980.6	\$380.4	\$2.7	\$416.6	\$34.7	\$1,635.0	\$180.0
1Q19	\$1,845.0	\$1,001.6	\$383.5	\$3.1	\$422.2	\$34.7	\$1,673.4	\$171.6
2Q19	\$1,907.1	\$1,037.9	\$408.0	\$2.9	\$421.6	\$36.8	\$1,727.7	\$179.5
3Q19	\$1,975.8	\$1,079.8	\$427.1	\$4.7	\$428.7	\$35.4	\$1,786.7	\$189.0
2019	\$1,985.4	\$1,089.4	\$426.9	\$4.6	\$429.0	\$35.5	\$1,796.3	\$189.1
1Q20	\$2,107.7	\$1,173.4	\$448.3	\$4.7	\$443.7	\$37.6	\$1,907.0	\$200.6
2Q20	\$2,195.2	\$1,228.9	\$441.1	\$5.0	\$478.1	\$42.1	\$1,946.4	\$248.8
3Q20	\$2,310.4	\$1,349.5	\$415.2	\$4.4	\$499.5	\$41.8	\$2,040.6	\$269.8
4Q20	\$2,520.9	\$1,537.5	\$390.7	\$3.9	\$548.7	\$40.1	\$2,210.2	\$310.7
1Q21	\$2,690.9	\$1,713.8	\$374.6	\$4.9	\$555.4	\$42.3	\$2,350.9	\$340.0
2Q21	\$2,781.9	\$1,825.8	\$352.8	\$4.8	\$555.5	\$43.1	\$2,431.8	\$350.2
3Q21	\$2,858.6	\$1,886.8	\$353.1	\$4.2	\$565.5	\$49.0	\$2,487.3	\$371.3
4Q21	\$2,906.0	\$1,915.5	\$352.7	\$4.4	\$578.0	\$55.4	\$2,529.8	\$376.3
1Q22	\$2,799.2	\$1,817.7	\$368.4	\$4.0	\$548.6	\$60.4	\$2,476.1	\$323.1
2Q22	\$2,623.8	\$1,665.9	\$369.2	\$3.8	\$523.0	\$61.8	\$2,321.2	\$302.6
3Q22	\$2,431.6	\$1,520.2	\$352.0	\$3.3	\$496.7	\$59.3	\$2,156.2	\$275.4
4Q22	\$2,423.9	\$1,505.6	\$371.9	\$4.0	\$481.7	\$60.6	\$2,154.5	\$269.4
1Q23	\$2,356.9	\$1,441.2	\$386.3	\$4.1	\$465.2	\$60.1	\$2,088.3	\$268.7
2Q23	\$2,280.4	\$1,389.4	\$383.5	\$3.0	\$446.2	\$58.3	\$2,022.5	\$257.9
3Q23	\$2,137.4	\$1,289.3	\$372.7	\$2.6	\$416.8	\$55.9	\$1,892.9	\$244.4
4Q23	\$2,260.5	\$1,351.1	\$414.2	\$2.9	\$434.9	\$57.3	\$2,008.9	\$251.6
1Q24	\$2,231.8	\$1,312.1	\$420.0	\$2.2	\$440.8	\$56.7	\$1,985.1	\$246.7
2Q24	\$2,222.6	\$1,281.3	\$438.2	\$2.2	\$448.2	\$52.7	\$1,980.3	\$242.0
Change:								
1Q24-2Q24	-0.4%	-2.3%	4.3%	-0.1%	1.6%	-7.1%	-0.2%	-1.9%
2023-2024	-2.5%	-7.8%	14.3%	-29.0%	0.4%	-9.6%	-2.1%	-6.2%
		of accets in hel						

#### Table 10. Bank and Thrift Residential MBS Holdings

Note: Data represent fair value of assets in held-to-maturity and available-for-sale account. Thrift MBS holdings prior to June 2009 include commercial MBS. Totals may not sum due to rounding. Source: Inside Mortgage Finance. Notes: Data as of Q2 2024.



#### Non-Institution Total GSE PT GNMA PT Share Rank Agency CMO Agency Bank of America Corporation \$405,363 \$194 1 \$328,072 \$63,847 \$13,250 18.24% 2 Wells Fargo & Company \$253,562 \$147,224 \$104,132 \$2,147 \$59 11.41% 3 JPMorgan Chase & Co. \$145,081 \$79,058 \$54,416 \$470 \$11,137 6.53% 4 **Charles Schwab** \$135,802 \$76,179 \$4,887 \$54,736 \$0 6.11% \$0 5 U.S. Bancorp \$94,144 \$56,825 \$27,457 \$9,862 4.24% 6 Citigroup Inc. \$91,714 \$61,234 \$27,811 \$1,953 \$716 4.13% 7 Truist Bank \$82,781 \$31,967 \$22,562 \$28,252 \$0 3.73% \$65,996 \$53,784 \$3,580 \$7,782 \$850 2.97% 8 PNC Bank, National Association 9 **Capital One Financial** \$62,120 \$29,290 \$13,663 \$18,864 \$303 2.80% Corporation 10 Morgan Stanley \$47,903 \$28,525 \$8,232 \$11,026 \$120 2.16% Bank Of New York Mellon Corp 11 \$42,550 \$27,046 \$4,448 \$9,386 \$1,670 1.91% State Street Bank and Trust 12 \$35,827 \$12,229 \$9,451 \$11,769 \$2,378 1.61% Company **USAA Federal Savings Bank** \$34,269 \$28,851 \$3,762 \$0 1.54% 13 \$1,656 Citizens Bank, National 14 \$28,662 \$12,615 \$6,757 \$9,289 \$0 1.29% Association 15 **BMO Harris Bank National** \$26,829 \$3,659 \$5,527 \$17,643 \$0 1.21% Association \$10,052 16 The Huntington National Bank \$25,160 \$8,174 \$6,821 \$113 1.13% 17 KeyBank National Association \$24,183 \$3,338 \$1,045 \$19,800 \$0 1.09% 18 TD Bank USA/TD Bank NA \$24,075 \$1,334 \$68 \$22,673 \$0 1.08% 19 HSBC Bank USA, National \$14,913 \$1 \$23,199 \$3,587 \$4,699 1.04% Association **Regions Bank** \$20,033 \$14,982 \$2,948 \$0 0.90% 20 \$2,103 Total Top 20 \$1,669,252 \$1,009,850 \$385,574 \$256,287 \$17,541 75.1%

#### Table 11. Top 20 Bank and Thrift Residential MBS Investors (\$ in millions)

Source: Inside Mortgage Finance. Totals may not sum due to rounding. Notes: Data as of Q2 2024.



#### 8.3 SOMA Holdings

#### FOMC and Economic Highlights:

- FOMC Meeting November 7, 2024 Press Release:
  - "In support of its goals, the Committee decided to lower the target range for the federal funds rate by 1/4 percentage point to 4-1/2 to 4-3/4 percent."
  - "Recent indicators suggest that economic activity has continued to expand at a solid pace. Since earlier in the year, labor market conditions have generally eased, and the unemployment rate has moved up but remains low. Inflation has made progress toward the Committee's 2 percent objective but remains somewhat elevated."
  - "The Committee would be prepared to adjust the stance of monetary policy as appropriate if risks emerge that could impede the attainment of the Committee's goals."
- During his Postmeeting Press Conference on November 7, 2024, Federal Reserve Chair Powell discussed the rate cut decision, the approach to considering further rate cuts, and outlook for the economy/inflation. He declined to "talk about anything that relates directly or indirectly to the election."
  - "The economy is strong overall and has made significant progress toward our goals over the past two years. The labor market has cooled from its formerly overheated state and remains solid. Inflation has eased substantially from a peak of 7 percent to 2.1 percent as of September. We are committed to maintaining our economy's strength by supporting maximum employment and returning inflation to our 2 percent goal."
  - "We continue to be confident that with an appropriate recalibration of our policy stance, strength in the economy and the labor market can be maintained, with inflation moving sustainably down to 2 percent."
  - "We also decided to continue to reduce our securities holdings."
  - "Payroll job gains have slowed from earlier in the year, averaging 104 thousand per month over the past three months. This figure would have been somewhat higher were it not for the effects of labor strikes and hurricanes on employment in October."
- The next FOMC meetings is scheduled for December 17<sup>th</sup> 18<sup>th</sup>.
  - On November 6, 2024, the UST 10YR yield closed at 4.426%, while the Ginnie Mae II 30-year 5.5% coupon yield closed at 5.60% and the 6.0% coupon yield closed at 5.76%, a spread of 117 bps and 133 bps, respectively.
  - PCE inflation decreased to +2.1% and core PCE inflation, which is the Fed benchmark, stayed constant at +2.7% in September 2024, per the October 31, 2024 Core PCE report.
  - Per the November 1, 2024 jobs report, 12,000 new jobs were created and the unemployment rate was unchanged at 4.1% in October 2024. Jobs added in August were revised significantly down to 78,000 from 159,000 and September's were revised down to 223,000 from 254,000. The relatively low unemployment rate, despite the reduction in new jobs, is an indication that the economy is maintaining its course towards a soft landing.

#### SOMA Portfolio Highlights (September 25, 2024 versus October 30, 2024):

- SOMA holdings of domestic securities totaled \$6.5 trillion on October 30<sup>th</sup> (a decrease of \$42.1 billion or -0.64% from September 25<sup>th</sup>). \$26.0 billion (62% of the total decrease) was in U.S. Treasury holdings and \$16.1 billion (38% of the total decrease) was in Agency MBS.
- Since the institution of redemption caps in June 2022, SOMA holdings have decreased by \$1.883



trillion. The total reduction of holdings of U.S. Treasuries was \$1.442 trillion and \$0.441 trillion for Agency MBS. This represents 95.5% and 45.8% of the total redemption cap over the period for U.S. Treasuries and Agency MBS, respectively. Beginning in June 2024, the Fed reduced its redemption cap for U.S. Treasuries from \$60 billion to \$25 billion per month. The cap remained unchanged for Agency MBS.

- Agency MBS comprise about 35% of the total SOMA portfolio. The \$16.1 billion monthly decrease was primarily due to MBS principal repayments rather than outright sales and was comprised of a \$6.7 billion decrease in Fannie Mae holdings, a \$5.9 billion decrease in Freddie Mac holdings, and a \$3.5 billion decrease in Ginnie Mae holdings. Since the Fed's QT program began in June 2022, there have only been 27 outright sales of Agency MBS specified pools, totaling \$877 million.
- Over 99% of SOMA MBS holdings have coupons of 4.5% or lower with an average WAC of 2.504%.
- The redemption cap for SOMA's Agency MBS holdings is set at \$35 billion per month. The reduction of \$16.1 billion in Agency MBS represents 46% of the monthly liquidation cap.

#### Table 12. SOMA Holdings as of September 25, 2024 and October 30, 2024 (\$ Billions)

	September 25, 2024		October 30,	2024	Month-Over-Month		
Holdings by Security Type	SOMA Holdings	% Share	SOMA Holdings	% Share	\$ Change	% Change <sup>3</sup>	
U.S. Treasuries	\$4,266.7	65.15%	\$4,240.7	65.15%	-\$26.0	-0.61%	
Federal Agency Debt	\$2.3	0.04%	\$2.3	0.04%	\$0.0	0.00%	
Agency MBS	\$2,274.0	34.71%	\$2,257.9	34.69%	-\$16.1	-0.71%	
Agency Commercial MBS	\$8.1	0.12%	\$8.1	0.12%	\$0.0	-0.11%	
Total SOMA Holdings	\$6,551.1	100.0%	\$6,509.0	100.0%	-\$42.1	-0.64%	

#### Table 13. SOMA Agency MBS Holdings Distribution (\$ Billions)

	October :	1, 2024	September	<sup>.</sup> 25, 2024	October 30, 2024		
Agency	Singly-Family AMBS Outstanding	% AMBS Outstanding	SOMA AMBS Holdings	% SOMA Holdings	SOMA AMBS Holdings	% SOMA Holdings	
Fannie Mae	\$3,565.1	39.7%	\$935.2	41.1%	\$928.5	41.1%	
Freddie Mac	\$2,983.7	33.2%	\$871.6	38.3%	\$865.7	38.3%	
Ginnie Mae	\$2,431.3	27.1%	\$467.2	20.5%	\$463.6	20.5%	
Total	\$8,980.1	100.0%	\$2,274.0	100.0%	\$2,257.9	100.0%	

#### Table 14. SOMA Agency MBS Liquidations from September 25, 2024 to October 30, 2024 (\$ Billions)

	MBS Holdings September 25, 2024	MBS Holdings October 30, 2024	Liquidated Amount	Liquidation Cap⁴	% of Liquidation Cap
Total	\$2,274.0	\$2,257.9	\$16.1	\$35.0	46%

Source: New York FED SOMA Holdings https://www.newyorkfed.org/markets/soma-holdings as of October 30, 2024.

<sup>&</sup>lt;sup>3</sup> Figures in \$ billions, any change less than \$50 million will be expressed as a "\$0.0" change in the "\$ Change" column.

<sup>&</sup>lt;sup>4</sup> The Liquidation cap is per calendar month. This analysis covers a four-week period to maintain consistency with other analyses in this report.



#### 8.4 Foreign Ownership of MBS

As of month-end August 2024, foreign ownership of MBS represented approximately \$1.31 trillion in Agency MBS, up approximately \$96 billion from August 2023. Total foreign ownership of Agency MBS represents roughly 15% of total Agency MBS outstanding. Total foreign ownership excluding Fed Holdings and CMOs represents roughly 23% of total Agency MBS available.



Figure 34. Agency MBS Owned by Foreign Entities Ex-Fed Holdings and CMOs (USD Billions)

Sources: TIC and Recursion, as of November 2024.



#### 8.5 Foreign Ownership of Agency Debt

The largest holders of Agency Debt were Japan, China, and Taiwan. As of June 2024, these three owned roughly 51% of all foreign owned Agency Debt. Between June 2023 and June 2024, Japan, China, and Taiwan decreased their Agency Debt holdings. Japan's holdings decreased by \$9.4 billion, China's holdings decreased by \$36.0 billion, and Taiwan's holdings decreased by \$14.0 billion.

Country	ountry Level of Holdings (\$ Millions)					hange in Hold	ings (\$ Millions	)
	9/1/2023	12/1/2023	3/1/2024	6/1/2024	Q3 2023	Q4 2023	Q1 2024	Q2 2024
Japan	\$252,463	\$259,059	\$248,603	\$244,007	(\$894)	\$6,596	(\$10,456)	(\$4,596)
China	\$255,110	\$271,478	\$255,977	\$233,934	(\$14,870)	\$16,368	(\$15,501)	(\$22,043)
Taiwan	\$201,010	\$211,610	\$199,560	\$194,253	(\$7,216)	\$10,600	(\$12,050)	(\$5,307)
Canada	\$116,642	\$133,725	\$129,900	\$157,880	\$11,312	\$17,083	(\$3,825)	\$27,980
Luxembourg	\$42,656	\$46,054	\$48,677	\$52,756	\$1,685	\$3,398	\$2,623	\$4,079
United Kingdom	\$90,017	\$120,148	\$39,768	\$47,710	\$34,335	\$30,131	(\$80,380)	\$7,942
Cayman Islands	\$37,089	\$42,342	\$41,961	\$40,740	\$6,691	\$5,253	(\$381)	(\$1,221)
Ireland	\$39,697	\$39,543	\$41,497	\$37,289	\$2,931	(\$154)	\$1,954	(\$4,208)
South Korea	\$36,508	\$38,381	\$36,519	\$36,129	(\$229)	\$1,873	(\$1,862)	(\$390)
France	\$23,557	\$24,713	\$24,154	\$27,183	\$3,887	\$1,156	(\$559)	\$3,029
Other	\$218,907	\$236,192	\$244,081	\$254,793	\$9,976	\$17,285	\$7,889	\$10,712
Total	\$1,313,656	\$1,423,245	\$1,310,697	\$1,326,674	\$47,608	\$109,589	(\$112,548)	\$15,977

#### Table 15. All Agency Debt (QoQ)

#### Table 16. All Agency Debt (YoY)

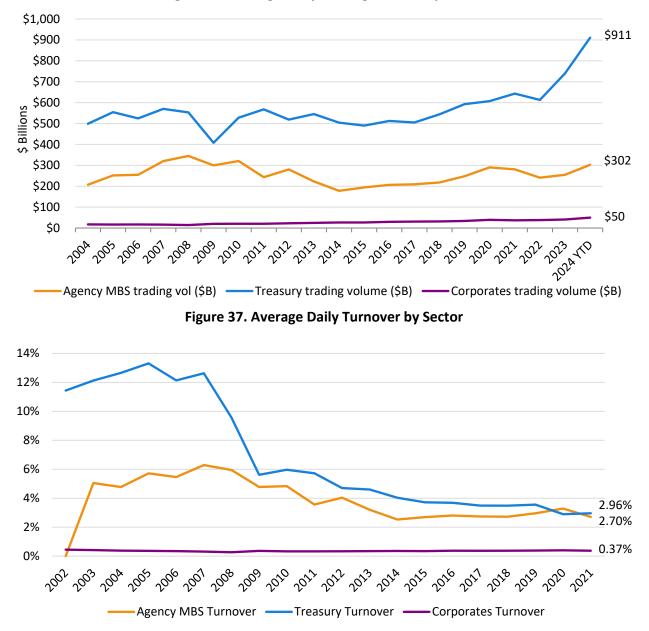
Country	Level of Holdings (\$ Millions)							
Country	6/1/2023	6/1/2024	YoY Change in Holdings (\$ Millions)					
Japan	\$253,357	\$244,007	(\$9,350)					
China	\$269,980	\$233,934	(\$36,046)					
Taiwan	\$208,226	\$194,253	(\$13,973)					
Canada	\$105,330	\$157,880	\$52,550					
Luxembourg	\$40,971	\$52,756	\$11,785					
United Kingdom	\$55,682	\$47,710	(\$7,972)					
Cayman Islands	\$30,398	\$40,740	\$10,342					
Ireland	\$36,766	\$37,289	\$523					
South Korea	\$36,737	\$36,129	(\$608)					
France	\$19,670	\$27,183	\$7,513					
Other	\$208,931	\$254,793	\$45,862					
Total	\$1,266,048	\$1,326,674	\$60,626					

Source: Treasury International Capital (TIC). Note: Level of agency debt Holdings by month data as of Q2 2024. Table 15 includes the top 10 holders of Agency Debt listed as of June 2024.



#### 9 FIXED INCOME LIQUIDITY INDICATORS

YTD average daily trading volume for Agency MBS was \$302 billion as of month-end October 2024, which indicates an increase from the daily average of \$255 billion for calendar year 2023. On a monthly basis, Agency MBS average daily trading volume decreased from \$353 billion in September 2024 to \$351 billion in October 2024. *See footnote below for update on "Average Daily Turnover by Sector" data.* 





Source: SIFMA. Note: Data as of October 2024 for Average Daily Trading Volume by Sector and as of December 2021 for Agency MBS in Average Daily Turnover by Sector. The MBS outstanding database for Turnover by Sector is under maintenance and is not updated in this report.



# PRIMARY MORTGAGE MARKET

### 10 AGENCY CREDIT BREAKDOWN

**Tables 17, 18, and 19** below outline the population distributions of FICOs, DTIs, and LTVs between the Agencies and between FHA, VA, and other Ginnie Mae loan sources as of month-end October 2024. The distribution statistics capture some key differences in the populations served by the agencies.

# 10.1 Credit Scores

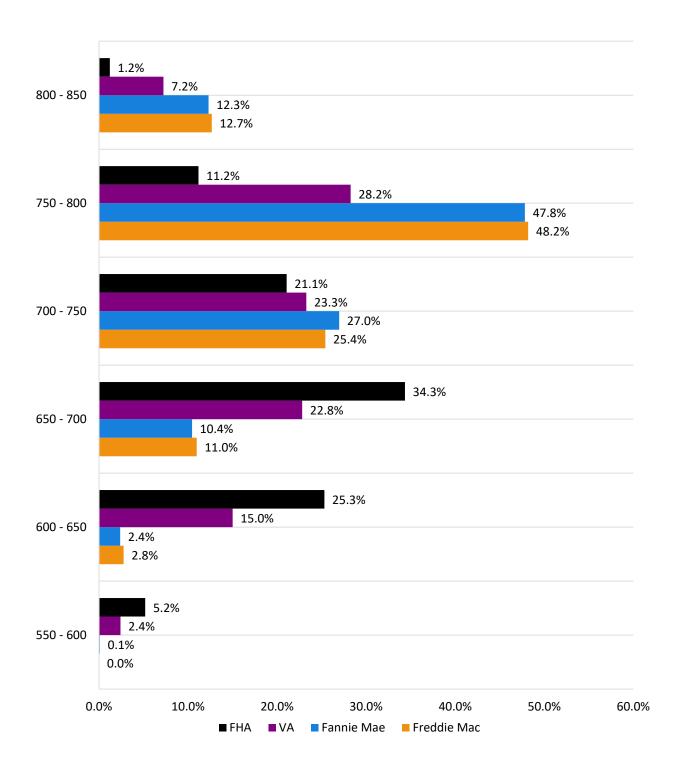
		Pu	rchase FICO									
Names	Number of Loans	P10	P25	Median	P75	P90	Mean					
All	219,544	656	701	750	784	801	738					
Fannie	68,423	702	734	766	790	803	758					
Freddie	73,985	694	731	767	791	804	757					
Ginnie	77,136	628	657	699	750	786	703					
	Refi FICO											
Names	Names Number of Loans P10 P25 Median P75 P90											
All	85,756	633	670	724	771	795	717					
Fannie	23,955	668	706	752	783	800	742					
Freddie	25,192	674	713	756	784	800	746					
Ginnie	36,609	605	640	678	726	771	682					
			All FICO									
Names	Number of Loans	P10	P25	Median	P75	P90	Mean					
All	311,894	644	688	742	780	799	730					
Fannie	92,378	691	727	763	789	802	754					
Freddie	99,177	688	727	765	790	803	754					
Ginnie	120,339	619	648	688	741	780	693					
	Purcl	hase FICO: Ginn	ie Mae Breakdo	wn by Source								
Names	Number of Loans	P10	P25	Median	P75	P90	Mean					
All	77,136	628	657	699	750	786	703					
FHA	49,312	624	650	685	730	766	690					
VA	24,859	641	680	739	780	800	728					
Other	2,965	632	662	704	742	774	703					
	Re	fi FICO: Ginnie I	Mae Breakdown	n by Source								
Names	Number of Loans	P10	P25	Median	P75	P90	Mean					
All	36,609	605	640	678	726	771	682					
FHA	18,082	594	629	661	697	736	663					
VA	18,494	620	655	700	752	786	701					
Other	33	635	653	697	750	772	701					
	A	II FICO: Ginnie N	/lae Breakdown	by Source								
Names	Number of Loans	P10	P25	Median	P75	P90	Mean					
All	120,339	619	648	688	741	780	693					
FHA	72,885	612	641	675	718	758	679					
VA	44,191	630	666	720	770	796	715					
Other	3,263	631	657	700	739	772	699					

### Table 17. Share of Loans by FICO Score

Data as of October 2024. Sources: Fannie Mae, Freddie Mac, and Ginnie Mae disclosure files. Note: All averages are rounded to the nearest whole number.



### Figure 38. FICO Distributions by Agency



Data as of October 2024. Sources: Fannie Mae, Freddie Mac, and Ginnie Mae disclosure files.



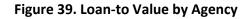
# 10.2 Loan-to-Value (LTV)

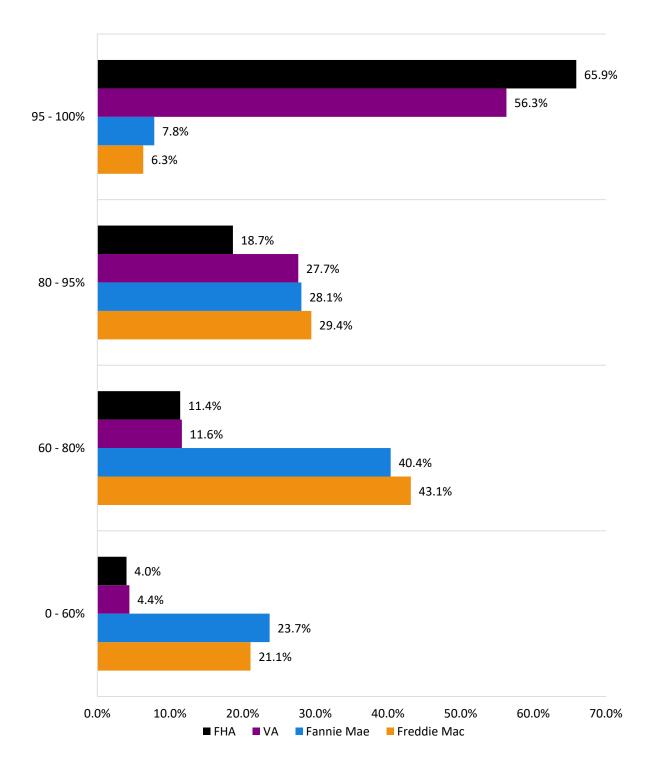
			Purchase	LTV							
Names	Number of Loans	P10	P25	Median	P75	P90	Mean				
All	219,873	62	80	92	98	99	85				
Fannie	68,504	54	75	80	95	97	79				
Freddie	74,010	54	75	80	95	95	79				
Ginnie	77,359	91	97	98	100	100	96				
	Refi LTV										
Names	Number of Loans	P10	P25	Median	P75	P90	Mean				
All	92,679	41	59	75	89	99	72				
Fannie	23,957	31	47	60	75	80	60				
Freddie	25,194	35	51	67	75	81	62				
Ginnie	43,528	63	77	87	99	101	85				
			All LTV	/							
Names	Number of Loans	P10	P25	Median	P75	P90	Mean				
All	320,514	53	74	86	97	99	82				
Fannie	92,461	44	63	80	90	95	74				
Freddie	99,204	47	66	80	90	95	75				
Ginnie	128,849	76	89	98	99	100	92				
		Purchase LTV	: Ginnie Mae E	Breakdown by :	Source						
Names	Number of Loans	P10	P25	Median	P75	P90	Mean				
All	77,359	91	97	98	100	100	96				
FHA	49,461	92	97	98	98	98	96				
VA	24,901	83	100	100	100	102	96				
Other	2,997	93	98	101	101	101	98				
		Refi LTV: G	iinnie Mae Bre	akdown by Sol	urce						
Names	Number of Loans	P10	P25	Median	P75	P90	Mean				
All	43,528	63	77	87	99	101	85				
FHA	18,873	56	70	81	81	98	77				
VA	24,618	73	86	95	100	103	91				
Other	37	67	80	98	101	102	89				
		All LTV: G	innie Mae Bred	akdown by Sou	rce						
Names	Number of Loans	P10	P25	Median	P75	P90	Mean				
All	128,849	76	89	98	99	100	92				
FHA	75,004	74	85	98	98	98	91				
VA	50,534	77	90	100	100	102	94				
Other	3,311	92	98	101	101	101	98				

### Table 18. Share of Loans by LTV

Data as of October 2024. Sources: Fannie Mae, Freddie Mac, and Ginnie Mae disclosure files. Note: All averages are rounded to the nearest whole number.







Data as of October 2024. Sources: Fannie Mae, Freddie Mac, and Ginnie Mae disclosure files.



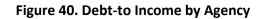
# 10.3 Debt-to-Income (DTI)

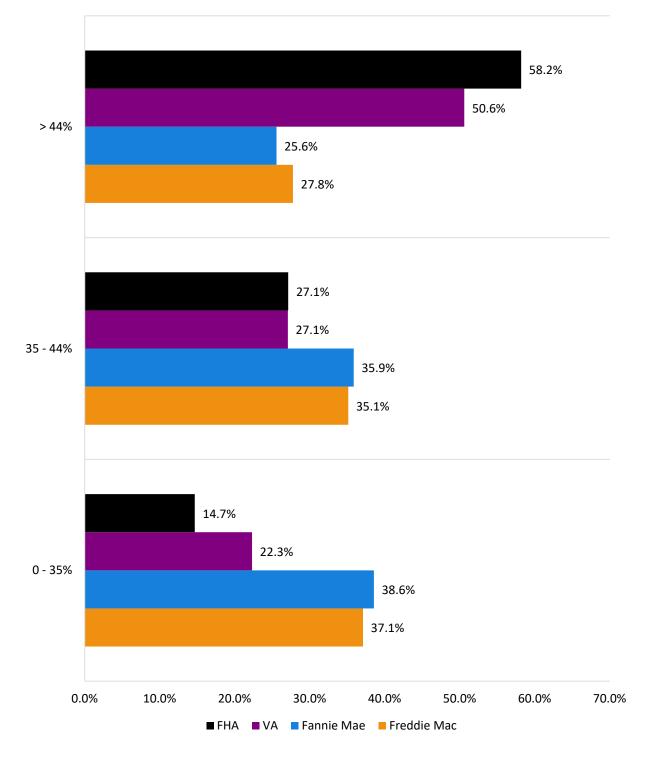
			Purchase	e DTI							
Names	Number of Loans	P10	P25	Median	P75	P90	Mean				
All	219,543	26	34	42	47	50	40				
Fannie	68,504	24	31	39	45	49	38				
Freddie	74,010	25	32	40	46	49	38				
Ginnie	77,029	32	38	45	51	55	44				
Refi DTI											
Names	Number of Loans	P10	P25	Median	P75	P90	Mean				
All	71,486	24	31	39	45	50	38				
Fannie	23,957	23	30	38	43	47	36				
Freddie	25,194	23	30	38	44	48	36				
Ginnie	22,335	28	35	44	50	55	42				
	All DTI										
Names	Number of Loans	P10	P25	Median	P75	P90	Mean				
All	297,421	26	33	41	47	50	40				
Fannie	92,461	24	31	39	45	48	37				
Freddie	99,204	24	31	39	45	49	38				
Ginnie	105,756	31	38	45	51	55	44				
		Purchase D	TI: Ginnie Mae	Breakdown by	v Source						
Names	Number of Loans	P10	P25	Median	P75	P90	Mean				
All	77,029	32	38	45	51	55	44				
FHA	49,448	34	40	46	52	55	45				
VA	24,584	30	37	45	51	56	44				
Other	2,997	27	32	36	40	42	35				
		Refi DTI:	Ginnie Mae Br	eakdown by So	ource						
Names	Number of Loans	P10	P25	Median	P75	P90	Mean				
All	22,335	28	35	44	50	55	42				
FHA	14,979	29	37	44	50	55	43				
VA	7,330	25	33	42	50	54	41				
Other	26	18	22	28	33	39	28				
		All DTI: (	Ginnie Mae Bre	akdown by So	ource						
Names	Number of Loans	P10	P25	Median	P75	P90	Mean				
All	105,756	31	38	45	51	55	44				
FHA	69,853	32	39	46	51	55	45				
VA	32,665	29	36	44	51	56	43				
Other	3,238	27	32	36	40	42	35				

### Table 19. Share of Loans by DTI

Data as of October 2024. Sources: Fannie Mae, Freddie Mac, and Ginnie Mae disclosure files. Note: All averages are rounded to the nearest whole number.







Data as of October 2024. Sources: Fannie Mae, Freddie Mac, and Ginnie Mae disclosure files.

# 10.4 High LTV Loans: Ginnie Mae vs. GSEs

Dur Guarantv Matters

**Ginnie**Mae

Comparing the three-month range of August 2023 – October 2023 to the three-month range of August 2024 – October 2024, the share of high-LTV agency loans with:

- FICO scores above 750 increased by approximately 4.4%.
- DTIs below 35% decreased by approximately 4.6%.

Ginnie Mae maintains its key role of expanding credit access to low-to-moderate income borrowers as it continues to dominate high-LTV lending, with 70.63% of its issuances between August 2024 – October 2024 having LTVs of 95 or above, compared to 22.92% for the GSEs.

### Table 20. Share of Loans with LTV > 95

	Ginnie Mae	GSE	All
Aug 2023 – Oct 2023	69.35%	21.22%	40.27%
Aug 2024 – Oct 2024	70.63%	22.92%	41.20%

### Table 21. Agency Market Share by DTI and FICO for Loans with LTV > 95 (Aug 2023 – Oct 2023)

	FICO										
DTI	<650	650-700	700-750	≥750	NA	All					
<35	1.68%	2.70%	3.89%	6.63%	0.05%	14.95%					
35-45	5.11%	7.86%	9.82%	12.09%	0.04%	34.93%					
≥45	7.76%	13.70%	14.22%	13.06%	0.11%	48.85%					
NA	0.28%	0.23%	0.16%	0.20%	0.40%	1.28%					
All	14.83%	24.49%	28.10%	31.98%	0.60%	100.00%					

### Table 22. Agency Market Share by DTI and FICO for Loans with LTV > 95 (Aug 2024 – Oct 2024)

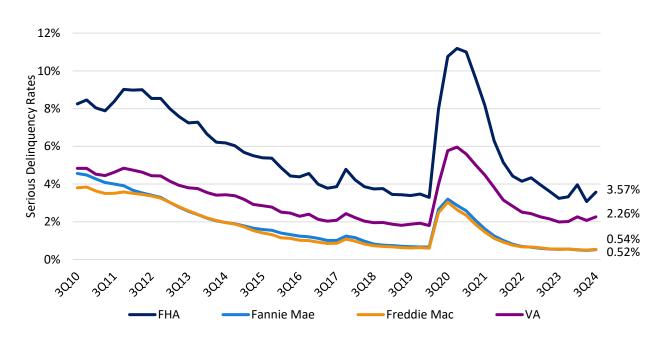
	FICO										
DTI	<650	650-700	700-750	≥750	NA	All					
<35	1.42%	2.25%	3.58%	6.95%	0.07%	14.27%					
35-45	4.38%	6.64%	8.97%	12.08%	0.07%	32.15%					
≥45	6.77%	11.76%	12.92%	12.87%	0.17%	44.50%					
NA	1.14%	1.27%	1.27%	1.47%	3.94%	9.09%					
All	13.70%	21.92%	26.74%	33.38%	4.26%	100.00%					

Sources: Recursion and Ginnie Mae. Data as of October 2024.



# 10.5 Serious Delinquency Rates

Serious delinquency rates for Single-Family VA and FHA loans rose in Q3 2024. From Q2 2024 to Q3 2024, FHA's serious delinquencies rose 50 bps to 3.57% and VA's delinquency rates saw a 19 bp increase to 2.26%. Fannie and Freddie's serious delinquencies saw less movement than FHA and VA in Q3 2024. Fannie Mae and Freddie Mac serious delinquency rates both increased 4 bps from Q2 2024 to Q3 2024, sitting at 0.52% and 0.54%, respectively. The trend in serious delinquency rates is consistent with the decrease in the number of loans in forbearance since the 2020 pandemic.



### Figure 41. Serious Delinquency Rates: Single-Family Loans

Sources: Fannie Mae and Freddie Mac Monthly Summary Reports. MBA Delinquency Survey

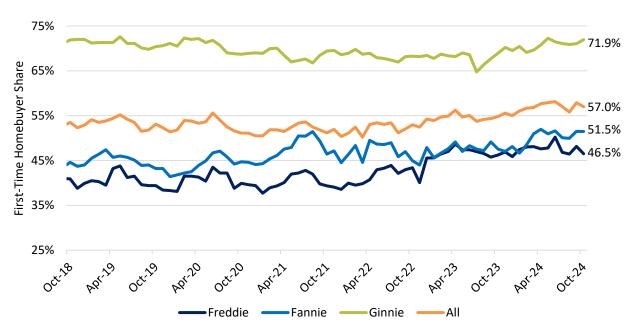
Note: Serious delinquency is defined as 90 days or more past due or in the foreclosure process. Data as of Q3 2024.



# 10.6 Credit Box

The first-time homebuyer shares for agency purchase loans was 57.0% as of month-end October 2024, a decrease from 57.9% in September 2024 and up from 54.8% in October 2023. Ginnie Mae's first-time homebuyer share, 71.9% as of month-end October 2024, increased 3.0% YoY. Freddie Mac and Fannie Mae's first-time homebuyer shares were 46.5% and 51.5%, respectively, as of month-end October 2024. Freddie Mac's share of first-time borrowers increased 0.3% and Fannie Mae's increased 3.9% YoY.

**Table 23** shows that based on mortgages originated as of month-end October 2024 the average GSE first-time homebuyer was more likely to have a higher credit score, lower LTV, and higher interest rate compared to an average Ginnie Mae first-time homebuyer. Ginnie Mae's first-time homebuyers were more likely to have lower loan amounts and lower credit scores, while having slightly higher mortgage rates than Ginnie Mae repeat buyers.



### Figure 42. First-Time Homebuyer Share: Purchase Only Loans

	<b>Fannie Mae</b> First-Time Repeat		Freddi	e Mac	Ginnie Mae		All	
			First-Time	Repeat	First-Time	Repeat	First-Time	Repeat
Loan Amount \$	\$329,766	\$336,576	\$357,155	\$386,983	\$324,995	\$387,813	\$335,169	\$369,446
Credit Score	753	764	749	764	696	720	727	754
LTV	84.5%	73.8%	84.4%	74.8%	97.2%	93.8%	90.1%	78.8%
DTI	37.5%	37.6%	37.8%	38.0%	44.0%	45.3%	40.5%	39.5%
Loan Rate	6.3%	6.4%	6.4%	6.5%	6.1%	5.9%	6.2%	6.3%

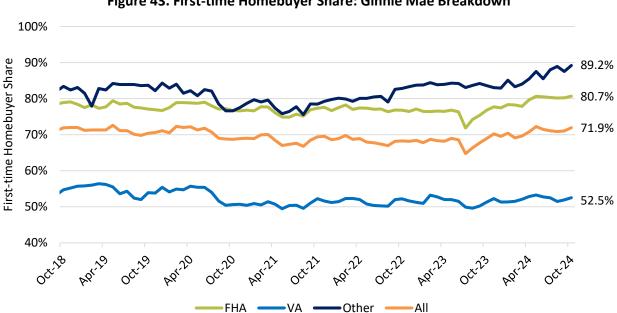
Table 23. Agency First-Time Homebuyer Share Summary

Sources: Fannie Mae, Freddie Mac, and Ginnie Mae disclosure files as of October 2024



In the Ginnie Mae purchase market, 80.7% of FHA loans, 52.5% of VA loans, and 89.2% of "Other" loans provided financing for first-time home buyers as of month-end October 2024. The share of firsttime home buyers in the Ginnie Mae purchase market decreased MtM for FHA and VA loan types and increased 1.7% for "Other" loans.

Table 24 shows that based on mortgages originated as of month-end October 2024 the credit profile of the average VA first-time homebuyer differed from the average VA repeat buyer. The average VA first-time homebuyer took out 16.2% smaller loans, had a 27.2-point lower credit score, and a 5.1% higher LTV than VA repeat buyers. VA repeat buyers faced a slightly lower interest rate than VA firsttime homebuyers. FHA's first-time homebuyers are much more like their repeat buyers, with only 5.3% smaller loans and 2.5% higher LTVs. Because FHA provides one of few credit options for borrowers with lower credit scores, repeat borrowers with weaker credit profiles are often limited to FHA financing; FHA's repeat buyers have similar credit scores compared to their first-time home buyers.



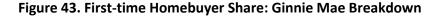


Table 24. Ginnie Mae First-Time Homebuy	er Share Breakdown Summary
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	FHA		v	Ά	Other		To	Total	
	First- Time	Repeat	First-Time	Repeat	First-Time	Repeat	First-Time	Repeat	
Loan Amount \$	\$321,439	\$339,258	\$361,662	\$431,759	\$198,652	\$217,154	\$324,995	\$387,813	
Credit Score	690	692	715	742	702	711	696	720	
LTV (%)	96.8	94.3	98.4	93.2	98.0	97.6	97.2	93.8	
DTI (%)	44.9	46.6	43.1	44.5	35.2	36.4	44.0	45.3	
Loan Rate (%)	6.1	6.0	6.0	5.9	6.2	6.1	6.1	5.9	

Sources: Fannie Mae, Freddie Mac, and Ginnie Mae disclosure files as of October 2024. Note: LTV, DTI, and Loan Rate are rounded to nearest tenth.



# 10.7 Credit Box: Historical

The median FICO score for all Agency loans originated as of month-end October 2024 was 742, which represents a 5-point increase from October 2023. Ginnie Mae median FICO scores increased 8 points from 680 in October 2023 to 688 as of month-end October 2024. As of month-end October 2024, median FICO scores for refinances increased for Ginnie Mae and Freddie Mac borrowers by 20 and 21 points YoY, respectively. Median FICO scores for Fannie refinances only increased 8 points from October 2023 to October 2024.

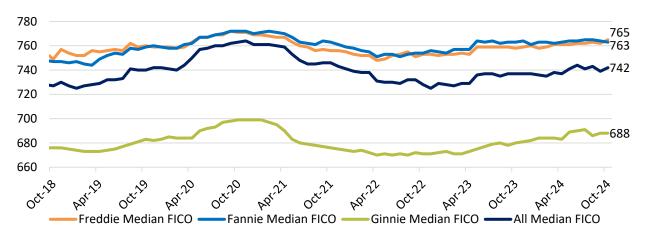
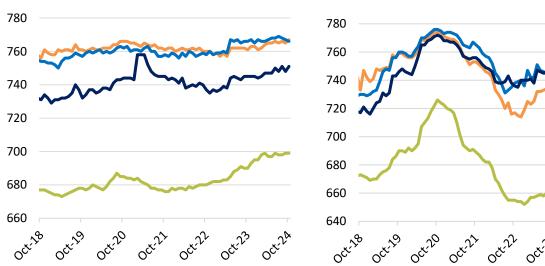


Figure 44. FICO Scores for All Loans



Fannie Median FICO

All Median FICO

# Freddie Median FICO Fannie Median FICO Ginnie Median FICO

Figure 46. FICO Scores for Refinance Loans

Sources: Fannie Mae, Freddie Mac, and Ginnie Mae disclosure files

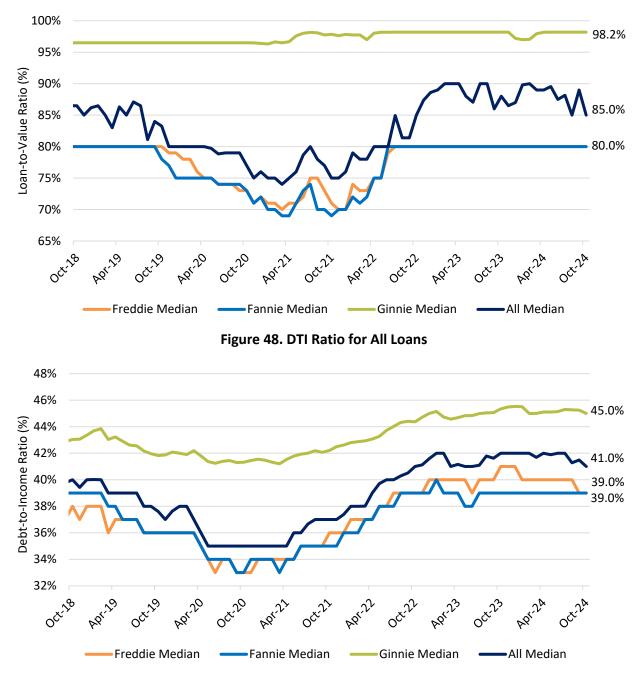
Freddie Median FICO -

Ginnie Median FICO 🗕

Figure 45. FICO Scores for Purchase Loans



In October 2024, the median LTV for Ginnie Mae loans was 98.2% compared to 80.0% for Fannie Mae and Freddie Mac, owing primarily to the lower down-payment requirements for government loan programs. Fannie Mae, Freddie Mac, and Ginnie Mae noted their LTV ratios remain flat YoY from October 2023 to October 2024. In October 2024, median DTIs for Ginnie Mae, Freddie Mac, and Fannie Mae were 45.0%, 39.0%, and 39.0%, respectively. In October 2023, median DTIs for Ginnie Mae, Freddie Mac, and Fannie Mae, Freddie Mac, and S9.0%, respectively.





Sources: Fannie Mae, Freddie Mac, and Ginnie Mae disclosure files.



# 11 FORBEARANCE TRENDS

At the end of October 2024, 72,694 Ginnie Mae loans were in forbearance. The number of loans in forbearance removed from MBS pools in October 2024 was 325 while 72,369 loans in forbearance remained in pools. The number of loans in forbearance, both the number of loans that remained in pools, and the number of loans removed from MBS pools increased for Ginnie Mae. The median current principal balance for Ginnie Mae, FHA, and VA was higher for loans in forbearance originated by nonbanks than banks in all subsets.

All Loans in Forbearance – October 2024									
	FICO Score*	Note Rate (%) *	Current Principal Balance Median	First Time Homebuyer Share (%)	Purchase Share (%)	Loan Count			
Ginnie	655	4.5%	\$214,988	72.1%	74.9%	72,694			
Bank	673	4.5%	\$159,656	80.6%	88.3%	8,196			
Nonbank	653	4.5%	\$222,410	71.1%	73.7%	64,463			
FHA	652	4.6%	\$204,464	76.6%	79.5%	55,164			
Bank	671	4.6%	\$157,362	84.7%	89.3%	7,364			
Nonbank	650	4.6%	\$212,055	75.6%	78.4%	47,768			
VA	663	4.4%	\$272,560	55.8%	61.6%	15,311			
Bank	687	4.5%	\$240,240	49.7%	79.9%	600			
Nonbank	662	4.4%	\$274,000	56.1%	60.8%	14,709			

### **Tables 25-27. Forbearance Snapshot**

	Loans in Forbearance and Removed from Pools – October 2024									
	FICO Score*	Note Rate (%) *	Current Principal Balance Median	First Time Homebuyer Share (%)	Purchase Share (%)	Loan Count				
Ginnie	648	5.4%	\$194,284	63.0%	68.3%	325				
Bank	646	5.2%	\$105,681	53.8%	91.9%	24				
Nonbank	648	5.5%	\$205,341	63.3%	67.6%	301				
FHA	639	5.7%	\$185,580	66.5%	74.7%	266				
Bank	654	5.3%	\$109,913	56.5%	91.5%	21				
Nonbank	638	5.8%	\$189,914	67.0%	74.0%	245				
VA	678	4.6%	\$280,193	46.7%	48.5%	57				
Bank	495	3.5%	\$130,477	N/A	N/A	1				
Nonbank	680	4.6%	\$280,347	46.7%	48.5%	56				

Loans in Forbearance that Remain in Pools – October 2024

	FICO Score*	Note Rate (%) *	Current Principal Balance Median	First Time Homebuyer Share (%)	Purchase Share (%)	Loan Count		
Ginnie	655	4.5%	\$215,035	72.1%	74.9%	72,369		
Bank	673	4.5%	\$159,958	80.7%	88.3%	8,172		
Nonbank	653	4.5%	\$222,460	71.1%	73.7%	64,162		
FHA	652	4.6%	\$204,579	76.7%	79.5%	54,898		
Bank	671	4.6%	\$157,555	84.7%	89.3%	7,343		
Nonbank	650	4.6%	\$212,165	75.6%	78.4%	47,523		
VA	663	4.4%	\$272,511	55.8%	61.6%	15,254		
Bank	688	4.5%	\$240,881	49.7%	79.9%	599		
Nonbank	662	4.4%	\$273,970	56.1%	60.9%	14,653		

Sources: Ginnie Mae loan level MBS disclosure and forbearance file and Ginnie Mae Issuer Operational Performance Profile (IOPP) -Peer Group Listings. Notes: Data as of October 2024; \*Averages weighted by remaining principal balance of the loans.

# 12 HOLDERS OF GINNIE MAE MORTGAGE SERVICING RIGHTS

The 30 largest owners of mortgage servicing rights (MSR) by UPB for loans collateralizing Ginnie Mae MBS are shown in **Table 28.** The top 30 firms collectively own 88.97% of Ginnie Mae MSRs (see Cumulative Share). Twenty-two of these top 30 are non-depository institutions, the remaining eight are depository institutions. As of October 2024, over half (52.00%) of the Ginnie Mae MSRs are owned by the top five firms.

MSR Holder	Current	Rank Year prior	Change	UPB (\$)	Share	Cumulative Share	CPR	CDR
Lakeview Loan Servicing	1	1		\$369,533,895,905	15.1%	15.11%	13.95%	1.39%
DBA Freedom Mortgage	2	2	$\longleftrightarrow$	\$355,221,977,495	14.5%	29.63%	12.93%	0.81%
PennyMac Loan Service	3	3		\$287,303,251,896	11.7%	41.38%	14.12%	2.65%
Newrez LLC	4	5	1	\$134,181,534,123	5.5%	46.87%	14.20%	1.41%
Mr. Cooper (Nationstar)	5	4	+	\$125,572,526,472	5.1%	52.00%	9.98%	1.86%
Carrington Mortgage	6	7	1	\$114,644,199,362	4.7%	56.69%	8.85%	1.12%
Rocket Mortgage	7	6	Ļ	\$114,141,738,840	4.7%	61.35%	15.11%	0.28%
Wells Fargo Bank	8	8	$\leftrightarrow$	\$90,402,911,957	3.7%	65.05%	6.49%	0.34%
Planet Home Lending	9	9	$\leftrightarrow$	\$74,086,705,989	3.0%	68.08%	14.56%	0.62%
U.S. Bank	10	10		\$57,193,131,134	2.3%	70.42%	8.78%	0.87%
United Wholesale Mortgage	11	11		\$41,159,447,850	1.7%	72.10%	5.70%	1.01%
LoanDepot	12	12		\$38,904,822,552	1.6%	73.69%	14.38%	2.00%
Navy Federal Credit Union	13	13		\$33,149,724,247	1.4%	75.05%	8.81%	0.39%
Mortgage Research Center	14	14	$\leftrightarrow$	\$32,738,513,579	1.3%	76.38%	30.79%	0.52%
Guild Mortgage Company	15	16	1	\$25,655,723,489	1.0%	77.43%	12.32%	0.78%
M&T Bank	16	15	1	\$25,652,875,468	1.0%	78.48%	6.24%	0.50%
CrossCountry Mortgage	17	18	1	\$24,791,942,653	1.0%	79.50%	17.88%	2.39%
The Money Source	18	17	I.	\$22,601,641,915	0.9%	80.42%	11.45%	3.19%
CMG Mortgage	19	22	<b>T</b>	\$22,290,885,066	0.9%	81.33%	11.38%	1.76%
New American Funding	20	21	1	\$21,729,627,747	0.9%	82.22%	15.01%	2.78%
Village Capital & Investment	21	28	1	\$20,618,362,066	0.8%	83.06%	41.43%	6.95%
Movement Mortgage	22	20	Ļ	\$20,398,003,793	0.8%	83.90%	18.00%	0.72%
Truist Bank	23	19	Ļ	\$19,820,821,470	0.8%	84.71%	9.09%	1.55%
Idaho Housing and Finance	24	25	1	\$19,662,280,844	0.8%	85.51%	5.88%	1.08%
AmeriHome Mortgage	25	23	+	\$18,677,340,967	0.8%	86.27%	18.26%	2.72%
PHH Mortgage Corporation	26	24	+	\$18,106,199,979	0.7%	87.02%	11.85%	0.81%
Citizens Bank	27	27	$\leftrightarrow$	\$13,493,860,328	0.6%	87.57%	7.53%	0.22%
Flagstar Bank	28	26	+	\$13,071,667,203	0.5%	88.10%	15.38%	1.16%
Sun West Mortgage	29	30		\$10,651,212,656	0.4%	88.54%	12.82%	0.62%
MidFirst Bank	30	29	Ļ	\$10,642,453,993	0.4%	88.97%	7.71%	2.55%

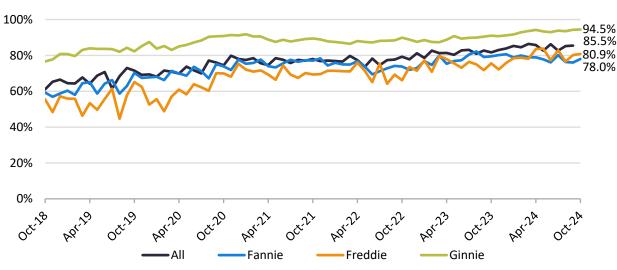
### Table 28. Top 30 Holders of Ginnie Mae Mortgage Servicing Rights (MSRs), by UPB

Sources: Ginnie Mae, Recursion. Notes: Data as of October 2024.



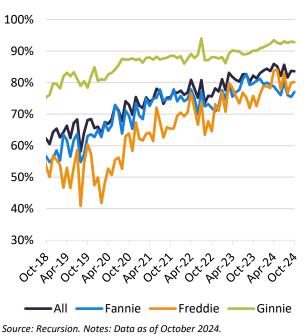
# 13 AGENCY NONBANK ORIGINATORS

Total Agency nonbank origination shares increased as of month-end October 2024 by approximately 0.3% MoM. The increase in nonbank origination share was driven by increases in Fannie Mae, up 2.6% MoM, Ginnie Mae up 0.2% MoM, and Freddie Mac up 0.8% MoM. The Ginnie Mae nonbank share increased to 94.5% as of October 2024 and has remained consistently higher than the GSEs.



# Figure 49. Agency Nonbank Origination Share (All, Purchase, Refi)

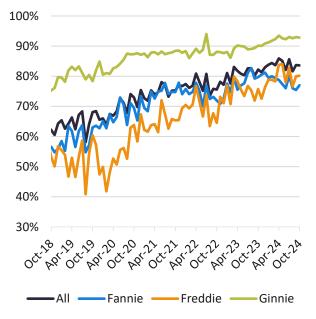




# Purchase Loans

### Figure 51. Nonbank Origination Share:





A Monthly Publication of Ginnie Mae's Office of Capital Markets



Ginnie Mae's total nonbank originator share remained relatively stable as of month-end October 2024. Ginnie Mae continues to have a high proportion of nonbank originations, with a rate of 94.5% in October 2024. The percentage of Ginnie Mae's "Other" nonbank refinanced loans increased to 95.7% in October 2024.

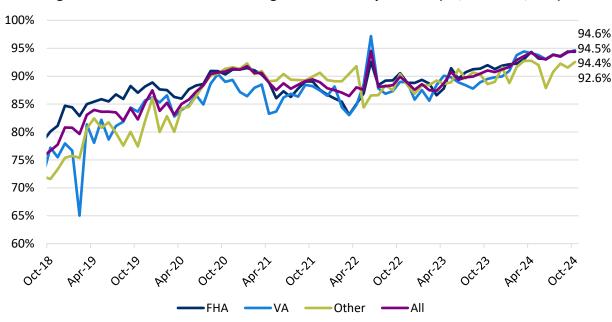
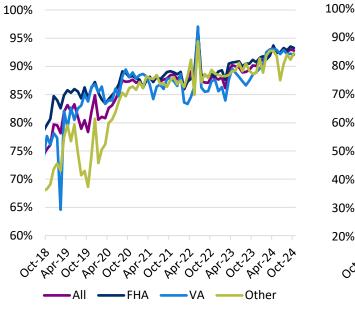




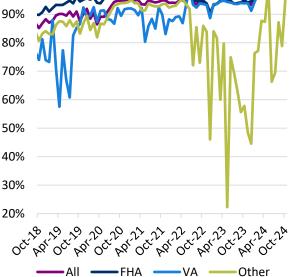


Figure 54. Ginnie Mae Nonbank Share:





Purchase Loans



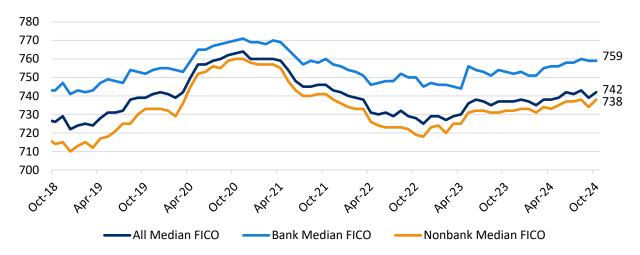
Source: Recursion. Notes: Data as of October 2024.



# 14 BANK VS. NONBANK ORIGINATORS HISTORICAL CREDIT BOX, GINNIE MAE VS. GSE

# 14.1 (FICO, LTV, DTI)

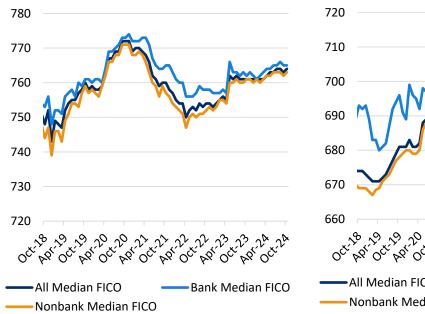
The mortgage loan originations of nonbanks continue to have a consistently lower median FICO score than their bank counterparts across all Agencies. The spread between nonbank and bank FICO scores decreased 4 points from 25 to 21 points from September 2024 to October 2024. The Agency median FICO score increased to 742 in October 2024.

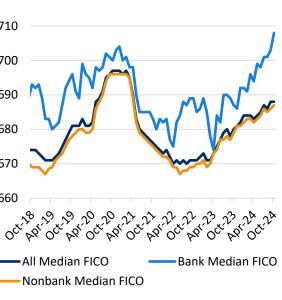






### Figure 57. Ginnie Mae FICO: Bank vs. Nonbanks

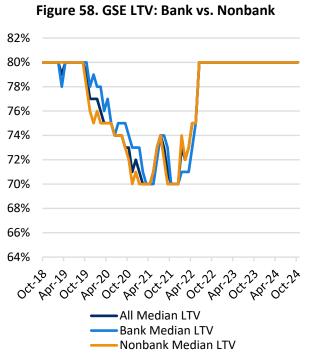




Source: Recursion: Notes: Data as of October 2024.



The median LTV for all GSE originators remained the same as of month-end October 2024 at 80.0%. Ginnie Mae's median bank and nonbank LTV remained flat at 98.2% as of month-end October 2024. Ginnie Mae's median DTI decreased to 45.1% in October 2024 in nonbank originations.



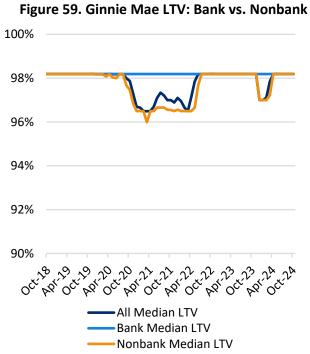
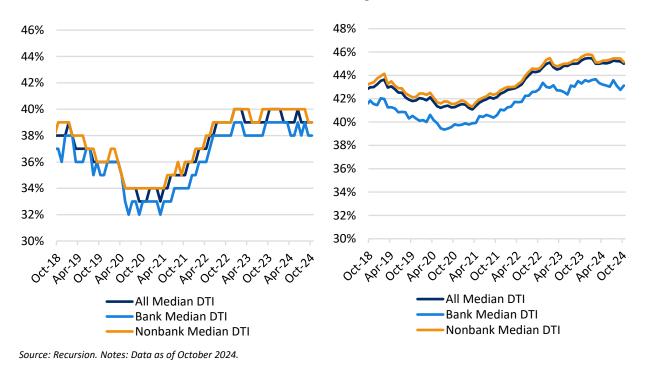


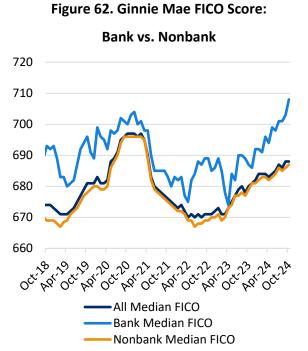
Figure 60. GSE DTI: Bank vs. Nonbank

Figure 61. Ginnie Mae DTI: Bank vs. Nonbank

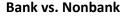




As of month-end October 2024, the median FICO score for Ginnie Mae bank originations increased 5 points to 708 points MtM and nonbank increased 1 point to 687 points MtM. The median FICO score for all Ginnie originations stayed at 688 points. The gap between banks and nonbanks is most apparent in "VA" lending (32-point spread).



### Figure 64. Ginnie Mae VA FICO Score:





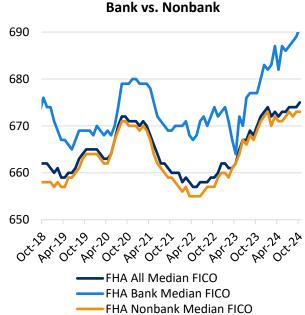
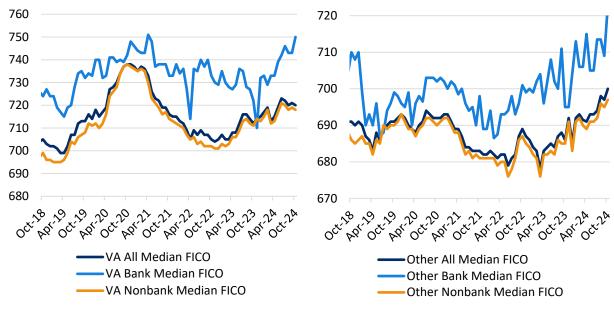


Figure 65. Ginnie Mae Other FICO Score:

Bank vs. Nonbank



Source: Recursion. Notes: Data as of October 2024.



Median DTI for Ginnie Mae's nonbank originations has been consistently higher than the median DTI for Ginnie Mae bank originations. This is a trend evident for all Ginnie Mae-eligible loan types except for the "Other" category, where the spread between median bank and nonbank DTI is relatively small.

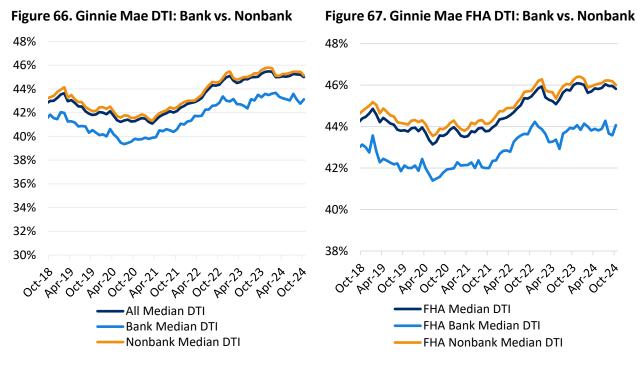
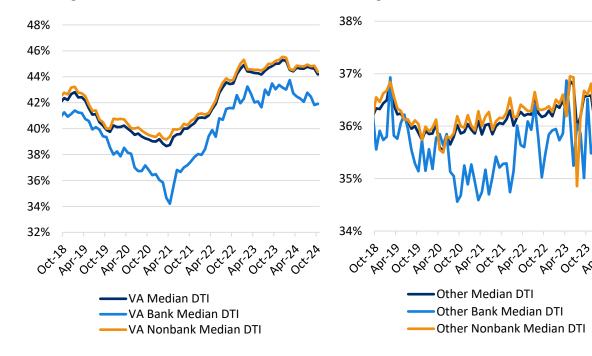


Figure 68. VA DTI: Bank vs. Nonbank

Figure 69. Other DTI: Bank vs. Nonbank



Source: Recursion. Notes: Data as of October 2024.

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# 15 ENVIRONMENTAL, SOCIAL, AND GOVERNANCE

Ginnie Mae MBS are collateralized by loans that facilitate homeownership for low-to-moderate income (LMI) borrowers, veterans, rural borrowers, and others that traditionally experience challenges in their efforts to achieve homeownership or obtain housing. Ginnie Mae is enhancing their disclosures to provide insight into the extent that the securities they guarantee support meaningful environmental and social goals. The timeline below captures the efforts Ginnie Mae has taken to produce ESG disclosures in recent years.

May 2021	LMI "Social" Disclosures (% of loans in LMI Areas)
June 2021	Disclosures revealed approximately \$259 billion of Outstanding Ginnie Mae MBS categorized as LMI area loans as defined by HUD's CDBG
November 2021	Green "Environmental" Status Disclosures Announced identifies Green properties within Multifamily Pools.
March 2022	Full implementation of Green Status Field into Multifamily Disclosures
April 2022	Introduction of Affordable Status Disclosure for Multifamily properties
February 2023	Low-Moderate Income Borrower (LMIB) Disclosure Announced
September 2023	Social Bond Program Introduced
December 2023	ESG Page Enhancement for Platinum Pool Search Results
August 2024	LMIB Disclosure charts added to ESG.



# 15.1 Environmental, Social, and Governance: A Summary

Ginnie Mae's guaranty of the securities provides a connection between the primary and secondary mortgage markets that promote access to mortgage credit throughout the Nation for residential and multifamily properties. The table below captures the outcomes Ginnie Mae has seen, both socially and environmentally, through its guaranty program.

	Ginnie Mae Im	pact MBS Metrics – Gu	aranteed Portfolio as of October 2024	
	Targeted Population	Positive Outcomes	Our Commitment	
ble	FHA Borrowers – 7,139.013 VA Borrowers – 3,665,822 RHS Borrowers – 779,159 PIH Borrowers – 23,822 Low-to-Moderate Income Borrowers	Loans under \$200K 6,476,773 Loans First-Time Home Buyers 4,491,817 Loans Down Payment Assistance 704,309 Loans Rural Single Family – 1,755,589 Loans HECM – 1,513,506 Loans 3,291,929 Loans	Ginnie Mae was established by Congress in 1968 to offer broad access to credit nationwide with a special emphasis on low- and moderate-income borrowers, and rural, inner-city, and underserved communities. Ginnie Mae securitization provides a unique and sustainable service in making home ownership more affordable, accessible, and equitable for our nation. The proceeds from the sale of Ginnie Mae Primary Issuance MBS are a source of capital to finance the specific residential mortgage toans collateralizing the Ginnie Mae MBS. Ginnie Mae securitization collateral selection is restricted to agency insured mortgages from the following United States Government Agencies. These agencies are the: Federal Housing Administration (FHA), Department of Veterans Affairs (VA), United States Department of Agriculture's Rural Housing Service (USDA-RHS), and HUD Public and Indian Housing (PH). The combination of these insuring agency programs and Ginnie Mae's quaranty enable housing outcomes for	Single Family
Social - Affordable	(LWI) LMI Majority Census Tract Loans	1,775,091 Loans	hoµseholds who might otherwise not be able to obtain mortgage access.	-
Socia	Borrowers Facing Difficulties	785,463 modifications with over 809,017 in partial claims	Ginnie Mae has been integral to the federal actions to prevent foreclosure for homeowners experiencing financial hardship.	
	Senior Citizens Aging in Place	266,269 Home Equity Convertible Mortgages (HECM) or Reverse	Ginnie Mae has developed the securities market for the FHA HECM (Reverse Mortgage) program which provides senior citizens a vehicle for accessing the equity in their homes.	HECM
	Multifamily Housing (MF)	1.325 million apartment homes 495,030 healthcare living units	Affordable rental housing is in critically short supply. Government lending and subsidy programs support preservation and creation of new affordable housing units nationwide.	Mu
	MF Affordable	5,090 MF loans are either Green,	Ginnie Mae provides information to investors via its monthly bond disclosure on	Multi-Family
Green	MF Green	Anordable, or boun	MITTAMIN INVESTMENTS that meet FHA'S MIF Green Mortgage Insurance Premium (MIP) Discount Qualified Mortgages and those loans meeting FHA's MF Broadly Affordable and Affordable requirements.	ily
	Senior Citizens Aging in Place Multifamily Housing (MF) MF Affordable	809,017 in partial claims 266,269 Home Equity Convertible Mortgages (HECM) or Reverse 1.325 million apartment homes 495,030 healthcare living units	homeowners experiencing financial hardship. Ginnie Mae has developed the securities market for the FHA HECM (R Mortgage) program which provides senior citizens a vehicle for accessi equity in their homes. Affordable rental housing is in critically short supply. Government lendii subsidy programs support preservation and creation of new affordable h units nationwide. Ginnie Mae provides information to investors via its monthly bond disclo multifamily investments that meet FHA's MF Green Mortgage Insurance I (MIP) Discount Qualified Mortgages and those loans meeting FHA's MF	leverse ing the ng and housing sure on Premium

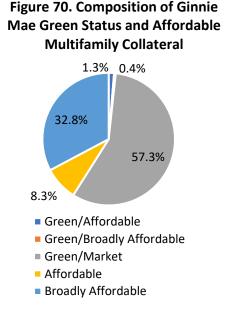
### Table 29. ESG Metrics – MBS Portfolio (October 2024)



# 15.2 Environmental

Table 30. UPB by ESG Status – Multifamily Portfolio

ESG Status	UPB	%
Green/Affordable	\$1,118,111,014	0.7%
Green/Broadly Affordable	\$352,882,928	0.2%
Green/Market	\$49,267,074,017	31.9%
Green Total	\$50,738,067,959	32.9%
Affordable <sup>5</sup>	\$7,105,490,327	4.6%
Broadly Affordable <sup>9</sup>	\$28,178,229,162	18.3%
Affordable Total	\$36,754,713,431	23.8%
ESG Total <sup>6</sup>	\$86,021,787,448	55.7%
Grand Total	\$154,344,370,663	100.0%



Much of Ginnie Mae's environmental impact is made through its Multifamily programs. Around 33.0% of Ginnie Mae collateral are "Green"-certified, as defined by the multiple organizations that sponsor and maintain green building certifications, including the U.S. Green Building Council, Energy Star, Greenpoint, and the National Green Building Standard, just to name a few. Additionally, roughly 23.9% of Ginnie Mae Multifamily collateral is "Affordable" or "Broadly Affordable". In total 55.9% of Ginnie Mae's Multifamily collateral is considered ESG.

### 15.3 Social

With the introduction of Ginnie Mae's new social disclosures, investors can now identify the number of underlying loans made to LMI borrowers, the percentage of LMI loan count out of total loan count, the unpaid principal balance (UPB) of LMI loans in the MBS, and the percentage of LMI UPB out of total MBS UPB. The borrower household income and address data, received from the government's insuring and guarantying agencies, is compared against the appropriate Federal Financial Institution's Examination Council (FFIEC) Area Median Income (AMI) database by loan origination year. If the borrower income is less than 80% of the AMI value in the associated census tract, their mortgage will be flagged as an LMI loan. In September 2023, Ginnie Mae launched its Social Bond update to its Single-Family Forward MBS program and its Social Impact and Sustainability Framework. These enhancements highlight the structural aspects of Ginnie Mae's mission and program to expand broader access to mortgage financing, affordable homeownership, and rental opportunities for historically underserved communities. In December 2023, Ginnie Mae added Low/Moderate Geographic Area Values and Low/Moderate Borrower Income Values to its Platinum pool securities including UPB amount and UPB percentage.

Sources: Ginnie Mae Disclosures as of October 2024, https://www.hud.gov/program\_offices/housing/mfh/green

<sup>&</sup>lt;sup>5</sup> "Affordable" and "Broadly Affordable" removes "Green/Affordable" and "Green/Broadly Affordable" from the UPB total. Affordable total includes both Green and Not Green.

<sup>&</sup>lt;sup>6</sup>ESG Total includes Green/Market & Affordable Total.



## 15.3.1 LOW-TO-MODERATE INCOME BORROWERS

Roughly \$314 billion of Ginnie Mae Single-Family collateral and over 1.77 million loans outstanding have been issued to LMI borrowers. Total ESG UPB increased by approximately \$20 billion YoY.

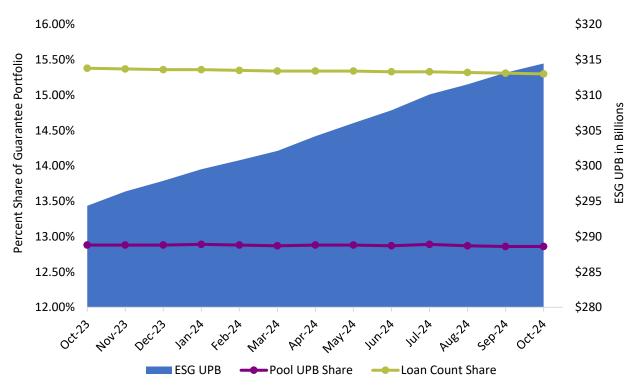


Figure 71. ESG Share of the Outstanding SF Portfolio

The UPB of pools that are made up of 20% or more LMI loans make up over 9% of total pool UPB. These pools have slightly higher LTV, marginally lower FICO scores, and substantially lower loan sizes than pools made up of less than 20% LMI loans. The UPB of pools that are made up of less than 20% LMI loans make up roughly 91% of total UPB.

Metric	LMI Pool Share >50%	LMI Pool Share 20% - 50%	LMI Share < 20%	All Pools
Total UPB (\$ billions)	\$9.22	\$215.6	\$2,162.9	\$2,387.7
Average Original Loan Size	\$190,376	\$203,116	\$349,033	\$335,246
Credit Score (Median)	674	675	680	677
DTI (Median)	41%	41%	41%	41%
LTV (Median)	97%	96%	95%	96%
Interest Rate (WA)	4.99%	4.87%	4.16%	4.23%

Table 31. Percent LMI by Pool Share
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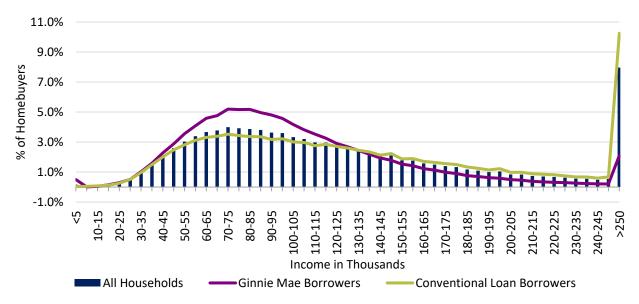
Source: Ginnie Mae Disclosures as of October 2024

Source: Ginnie Mae Disclosures as of October 2024



### 15.3.2 Purchase and Refinance Origination by Income Bracket

Over 36.6% of all purchase and refinance loan originations guaranteed by Ginnie Mae are to households with income less than \$80,000 compared to 27.6% of the GSE's Single-Family guarantee portfolio. Additionally, around 73.8% of these loan originations guaranteed by Ginnie Mae are to households with income less than \$125,000 compared to 55.0% at the GSEs.





Source: Home Mortgage Disclosure Act (HMDA) data as of 2023

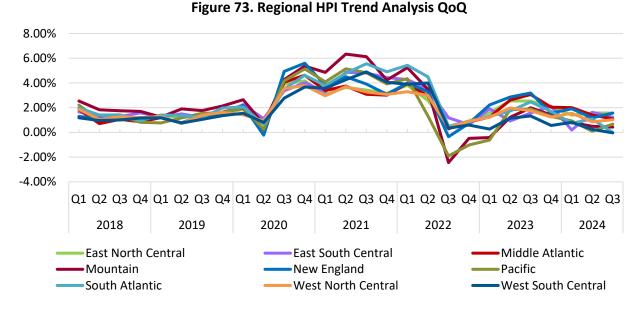


# **U.S. HOUSING MARKET**

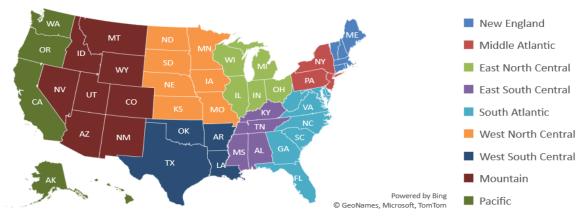
## 16 HOUSING AFFORDABILITY

# 16.1 Housing Affordability – Home Price Appreciation

Quarterly home prices increased in seven of the nine regions in Q3 2024. The East North Central and New England regions both saw the largest quarterly appreciation in the home price index (HPI) of 1.56% each from Q2 to Q3 2024. The South Atlantic and West South Central regions saw QoQ decreases in HPI of around 0.02% and 0.04%, respectively. The East North Central region has appreciated more than any other region over the past year, increasing 6.77% from Q3 2023 to Q3 2024. The United States collectively saw a 4.34% increase of YoY HPI from 2023 Q3 to 2024 Q3; down from a 5.88% increase of YoY HPI in Q2 2023.



### Figure 74. FHFA U.S. Census Subregions as defined by the U.S. Census Bureau



Source: HPI data from FHFA and is seasonally adjusted. U.S. Census Subregions as defined by the U.S. Census Bureau.

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# 16.2 Housing Affordability – Inflation, Wages, and the Price of Real Estate

**Ginnie**Mae

As of month-end October 2024, YoY CPI inflation was 2.6%, increasing from 2.4% in the month prior. Nationally, rents are up 0.2% YoY as of month-end October 2024 while the MoM change in median rents decreased by 0.6%. YoY change in wage growth in October increased 4.6%, following a 4.7% YoY increase in the month prior. Month-end August 2024 adjusted reporting data shows home price appreciation increased 4.3% YoY.

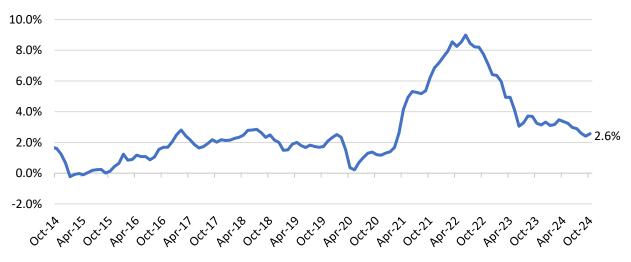




Figure 76. Asset Price Appreciation vs. Wage Increases



Sources: Bureau of Labor Statistics – Consumer Price Index; Federal Reserve Bank of Atlanta, Research and Data - Wage-Growth Data (currently undergoing maintenance); Redfin.com - Rental Price Appreciation; S&P/Case-Schiller U.S. National Home Price Index – Home Price Appreciation.



# 16.2.1 HOUSING AFFORDABILITY – AFFORDABILITY INDEX

As of month-end October 2024, the Homebuyer Affordability Fixed Mortgage Index (HAFM) was 98.6 and the First-Time Homebuyer Monthly Payment (FTMP), which represents the median payment for first-time homebuyers, was \$2,218. The HAFM Index increased 7.52% YoY and monthly payments for first-time homebuyers increased approximately 3.36% YoY. HAFM has decreased 47.5% and FTMP has increased 116.2% since January 2021.

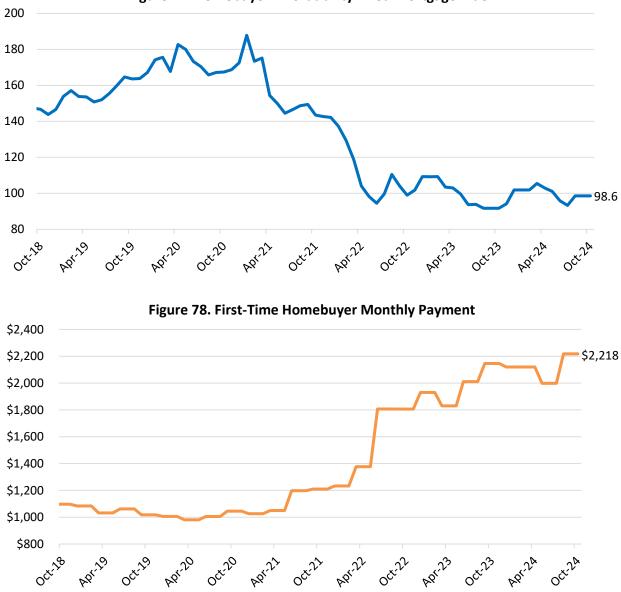


Figure 77. Homebuyer Affordability Fixed Mortgage Index

Source: Bloomberg as of October 2024. Note: Housing Affordability Index: Value of 100 means that a family with the median income has exactly enough income to qualify for a mortgage on a median-priced home. An index above 100 signifies that a family earning the median income has more than enough income to qualify for a mortgage loan on a median-priced home, assuming a 20 percent down payment. This index is calculated for fixed rate mortgages.



# 16.2.2 HOUSING AFFORDABILITY - MORTGAGE RATE TRENDS

The Fed lowered the Federal Funds target rate on November 7, 2024, to a range of 4.5% and 4.75% per the FOMC<sup>7</sup>. As of November 21, 2024, the average 30-year and 15-year fixed rate mortgage rates were 6.84% and 6.02%, respectively. The average 30-year fixed rate mortgage rate increased 30 bps and the average 15-year fixed rate mortgage rate increased 31 bps from October 24, 2024.



### Figure 79. Average Fixed Rate Mortgage Rates

Source: FRED data as of November 2024

<sup>&</sup>lt;sup>7</sup>FOMC Statement - Nov 2024

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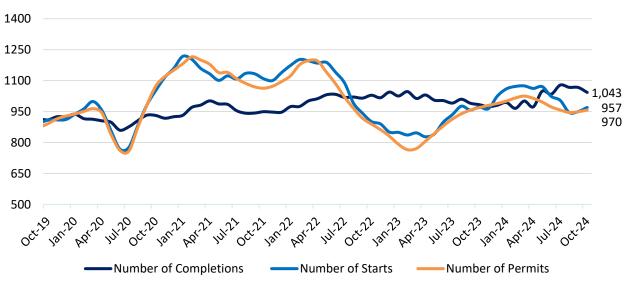


# 16.3 Housing Inventory

As of October 2024, there were 9.5 months of new housing inventory on the market, increasing 25.0% MoM from an adjusted 7.6 months in September 2024. **Figures 81 and 82** show Single-Family and Multifamily annualized housing metrics, including the number of permits, starts, and completions. From October 2023 to October 2024, the number of Single-Family completions rose approximately 6.0% while the number of starts and permits declined 0.2% and 1.2%, respectively. Multifamily metrics show that from October 2023 to October 2024, the number of completions rose 60.2%, while the number of starts and permits decreased 15.3% and 15.2%, respectively.



Figure 80. Single-Family Housing Inventory





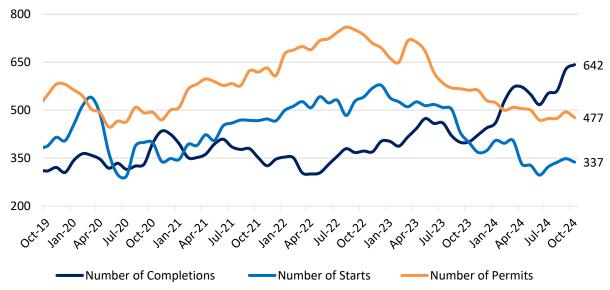


Figure 82. Multifamily Constructions Metrics: Permits, Starts, Completions

Source: Figure 80 FRED as of October 2024. Figures 81 & 82: New Residential Construction, U.S. Census Bureau data as of October 2024. Note: Figures 81 & 82 are calculated using a 3-month moving average to identify underlying trends in construction metrics, in thousands of units.



# 16.4 Size and Value of the U.S. Housing Market

The total value of the Single-Family housing market increased from \$46.4 trillion in Q1 2024 to \$48.2 trillion in Q2 2024. The total value of the US housing market is up approximately 153% from its low in 2011. From Q2 2023 to Q2 2024 mortgage debt outstanding increased from approximately \$12.9 trillion to \$13.1 trillion and household equity increased from \$31.6 trillion to \$35.1 trillion. Agency Single-Family MBS continues to account for a growing percentage of the total mortgage debt, up from just 52% in 2011.

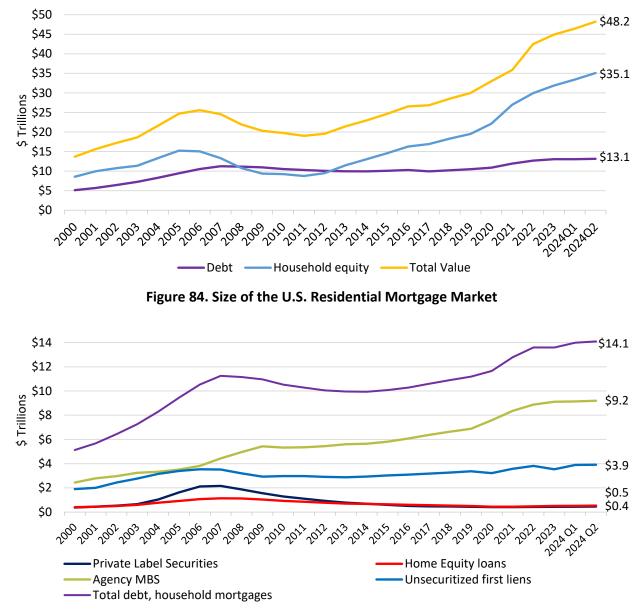


Figure 83. Value of the U.S. Housing Market

Source: Federal Reserve Flow of Funds Data as of Q2 2024. Total debt in figure 84 includes additional Nonfinancial corporate/noncorporate business mortgages which is not included in the calculation for "debt" for figure 83. Figures are rounded to nearest hundred billion.



# 17 DISCLOSURE

"The data provided in the Global Markets Analysis Report (hereinafter, the "report") should be considered as general information only and is current only as of its specified date, unless otherwise noted. No information contained herein is, and should not be construed to be, investment advice. Nor does any information contained herein constitute an offer to sell, or is a solicitation of an offer to buy, securities.

The information contained herein is based upon information generally available to the public from sources believed to be reliable as of the specified date. The accuracy of the information contained herein is based on the corresponding accuracy of the issuer data as reported to the Government National Mortgage Association (hereinafter, "Ginnie Mae").

Therefore, if there is insufficient or inaccurate data to support calculations of any specific disclosure information, Ginnie Mae disclaims any and all liability relating to that information, including, without limitation, any express or implied representations or warranties for statements or errors contained in, or omissions from, the report.

The forward-looking statements, and underlying assumptions, speak only as of the date of October 31, 2024. Ginnie Mae expressly disclaims any obligation or undertaking to update or revise any forward-looking statement or underlying assumption contained in the report to reflect any change in its expectations or any change in circumstances upon which such statement is based.

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