Quarterly Report to Congress

Financial Status of the Mutual Mortgage Insurance Fund

Fiscal Year 2023, Quarter Two



Office of Risk Management and Regulatory Affairs, Office of Evaluation, Reporting & Analysis Division

Quarterly Report to Congress on FHA Single-Family Mutual Mortgage Insurance Fund Programs

FY 2023 Q2 Data as of March 31, 2023

U.S. Department of Housing and Urban Development Federal Housing Administration

FOREWORD

On behalf of Secretary Marcia L. Fudge and Assistant Secretary for Housing Julia R. Gordon, and pursuant to requirements of Section 202(a)(5) of the National Housing Act as amended by the FHA Modernization Act of 2008 (Public Law 110-289, Page 122 Stat. 2834), I am herewith transmitting the Fiscal Year (FY) 2023 Second Quarter Report. This report covers mortgages that are obligations of the Mutual Mortgage Insurance (MMI) Fund of the Federal Housing Administration (FHA) for the reporting period covering January 1, 2023, through March 31, 2023.

Through the second quarter of FY 2023, FHA served 211,441 first-time homebuyers, representing 82 percent of FHA's forward purchase mortgage endorsements. FHA also served 78,475 households of color with purchase mortgages and 8,447 seniors were able to access their home equity using FHA's Home Equity Conversion Mortgage Program (HECM). During the same period, FHA maintained its strong focus on assisting homeowners facing hardships through the COVID-19 National Emergency. For those homeowners who fell behind on their mortgage payments since the start of the pandemic, FHA continued to deliver expanded flexibilities and forbearance options. The agency continues to engage with mortgage servicers, consumer advocates, and housing counselors to assist in ensuring that homeowners in need are aware of the loss mitigation tools available to them.

A number of FHA borrowers continued to face COVID-19 related hardships in the second quarter of FY 2023. Seriously delinquent mortgages (those past due 90 or more days) are still elevated from the pre-pandemic period, although the portfolio experienced a decline in delinquencies from 11.61 percent at the end of the same quarter of FY 2021 to 4.53 at the end of this quarter. In addition, early payment defaults (defaults within six months of endorsement) declined from a peak of approximately nine percent in early 2020 to 2.43 percent through the current quarter. This is still above average relative to historical results and continues to vacillate at elevated levels. FHA will continue to focus extensive efforts on helping struggling homeowners to obtain financial relief needed to achieve long-term homeownership sustainability.

This quarterly report also provides detailed information on the composition and credit quality of new insurance in force, and on FHA's financial position. In addition to this report to Congress, FHA provides information regarding the status of its Single-Family mortgage insurance portfolio via the publication of other complementary reports, including HUD's Annual Report to Congress on the Financial Status of the Mutual Mortgage Insurance Fund and the annual independent actuarial review of the MMI Fund. All FHA reports can be found in the Office of Housing Reading Room.

The Department is pleased to provide details to members of Congress on how this report was prepared or to answer any questions about the information presented.

Sincerely,

Mia N. Pittman

Mia N. Pittman Deputy Assistant Secretary Office of Risk Management and Regulatory Affairs

3

TABLE of CONTENTS

Endorsement Activity	. 7
Figure 1a. Forward Endorsement Counts by Fiscal Year and Quarter	7
Figure 1b. HECM Endorsement Counts by Fiscal Year and Quarter	8
FHA Loan Credit Characteristics	. 9
Figure 2. Average Credit Scores by Fiscal Year and Quarter	9
Figure 3a. Distribution of Credit Scores by Fiscal Year and Quarter	10
Figure 3b. Distribution of Select Credit Scores by Fiscal Year and Quarter	11
Debt-to-Income (DTI)	12
Figure 4a. Debt-to-Income Ratios on New Purchase Endorsements by FY and Quarter	12
Figure 4b. Debt-to-Income and Payment-to-Income Ratios on New Purchase Endorsemen by Fiscal Year and Quarter	
Average Loan-to-Value (LTV)	14
Figure 5. Average Loan-to-Value Ratios on New Endorsements by FY and Quarter	14
Predicted and Actual Termination and Claim-Loss Rates	15
Figure 6. Termination and Claim Loss Experience Compared to Forecasts	15
Budget Execution Credit Subsidy Rates	16
Figure 7. Budget Execution Credit Subsidy Rates, FY 2023 Q2	16
MMI Fund Cash and Investments	17
Figure 8. MMI Fund Cash and Investments by Quarter, FY 2015 – FY 2023	17
Cash Flows from Business Operations	18
Figure 9. Business Operations Cash Flows, FY 2022 Q3- FY 2023 Q2 (\$ millions)	18
Early-Payment Default Rates	19
Figure 10. Early Payment Default Rates	19
Serious Delinquency Rates	20
Figure 11. Serious Delinquency Rates, All Single-Family Forward Endorsements	20
Figure 12. Status of Borrowers Who Were Delinquent During the COVID-19 Emergency	21
APPENDIX	22
Exhibit A-1. Forward & HECM Endorsement Counts	23
Exhibit A-2. Endorsement Volumes	24
Exhibit A-3. Credit Score Distributions on New Endorsements (%)	25
Exhibit A-4. Average Credit Scores on New Endorsements	26
Exhibit A-5. Loan-to-Value (LTV) Ratio Distribution on New Endorsements	27
Exhibit A-6. Average Loan-to-Value (LTV) Ratios on New Endorsements (%)	28
Exhibit A-7. Termination Claim Type and Loss Severity Rates	29

Exhibit A-8. Forward Share of Endorsements by Loan type	
Exhibit A-9. Debt-to-Income (DTI) Ratio	31
Exhibit A-10. Down Payment Assistance Program (DPA)	32
Exhibit A-11. Reverse Mortgage Program (HECM)	33
Exhibit A-12. Serious Delinqency Rates	34

This report is in fulfillment of the requirement under section 2118 of the Housing and Economic Recovery Act of 2008 (12 USC 1708(a)(5)) that HUD report to the Congress on a quarterly basis respecting mortgages that are an obligation of the Mutual Mortgage Insurance Fund.

Errata:

Note: Figure 9 within the enclosed report has been updated to reflect corrections made to current quarter activities. Specifically, collections data were updated to reflect correct premium revenue received, resulting in a corrected positive net operations cash flow for the quarter of \$1,440 million rather than the previously reported negative \$651 million.

Endorsement Activity

During the second quarter of fiscal year (FY) 2023, FHA endorsed 146,735 forward mortgages for insurance, a decrease of 18.10 percent from the prior quarter (Figure 1a). This decrease is due to a decline in both purchase and refinancing activity primarily driven by interest rates that remain at levels not seen since prior to the Great Recession. During the quarter, the dollar volume of purchase endorsements was down 15.85 percent or \$6.39 billion from the previous quarter while refinance endorsements (Conventional to FHA, FHA to FHA) of \$6.89 billion in the quarter were down \$1.89 billion, or 21.53 percent, from the previous quarter. The dollar volume of all forward mortgage endorsements of \$40.79 billion decreased 16.87 percent (Exhibit A-2).

FHA purchase activity by loan count was down 17.28 percent from the previous quarter, from 140,890 mortgages to 116,549 mortgages. FHA-to-FHA refinance endorsements decreased by 25.29 percent from the previous quarter, from 18,492 to 13,815, mostly due to the persistently higher interest rates in recent quarters. Conventional to FHA refinance mortgages also decreased but to a lesser extent, down 17.21 percent, from 19,773 to 16,371 mortgages. Cash out refinance mortgages made up 94 percent of all refinance mortgage endorsements for the quarter, up from 61 percent in FY 2022 and 19 percent in FY 2021.

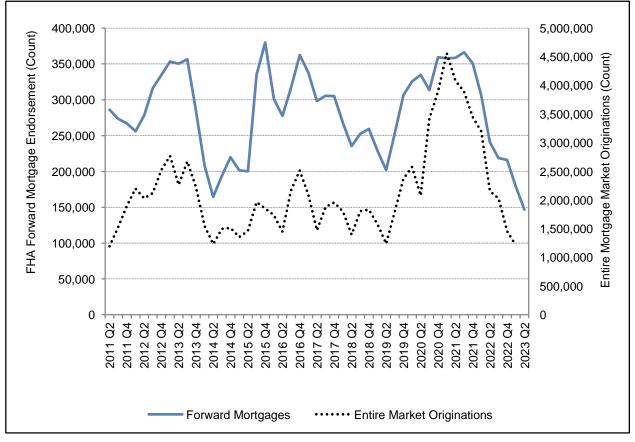
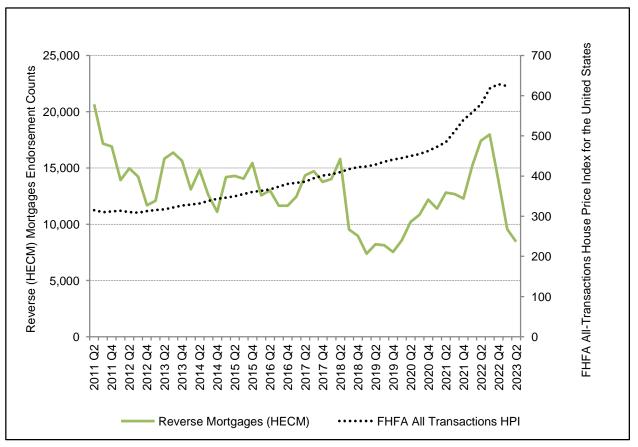


Figure 1a. Forward Endorsement Counts by Fiscal Year and Quarter

SOURCE: U.S. Department of HUD/FHA, April 2023.

7

HECM endorsement volume was \$4.01 billion for the second quarter of FY 2023, a decrease of 15.63 percent from the previous quarter. The decline in HECM endorsements is likely attributable to higher interest rates, which reduced the amount of equity a homeowner could draw via a HECM loan. HECM endorsement counts during the second quarter of 8,447 were a decrease of 11.59 percent from the prior quarter. Figure 1b shows FHA HECM endorsements relative to the Federal Housing Finance Agency (FHFA) Quarterly United States House Price Index.



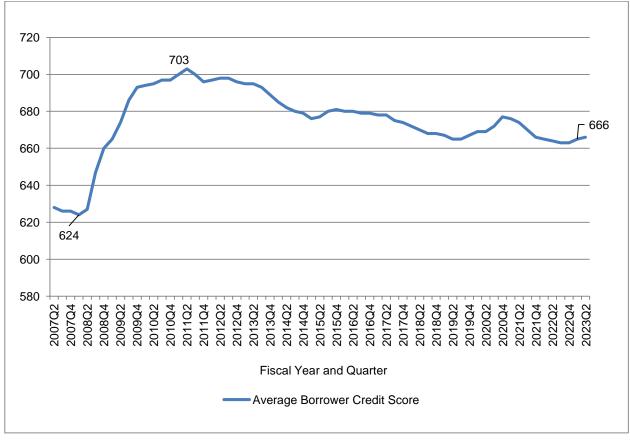


SOURCE: U.S. Department of HUD/FHA, April 2023, U.S. Federal Housing Finance Agency, All-Transactions House Price Index for the United States [USSTHPI], retrieved from FRED, Federal Reserve Bank of St. Louis; https://fred.stlouisfed.org/series/USSTHPI, April 25, 2023.

8

FHA Loan Credit Characteristics

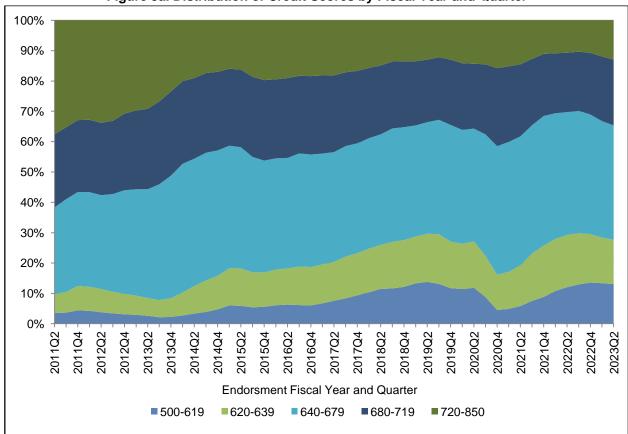
Average credit scores increased slightly from 665 to 666 in the second quarter of FY 2023. While this average is lower than the peak of 703 in the second quarter of FY 2011, it remains well above the low of 624 during the first quarter of FY 2008 (Figure 2, Exhibit A-4).





NOTE: Excludes streamline refinance and HECM endorsements. SOURCE: U.S. Department of HUD/FHA, April 2023

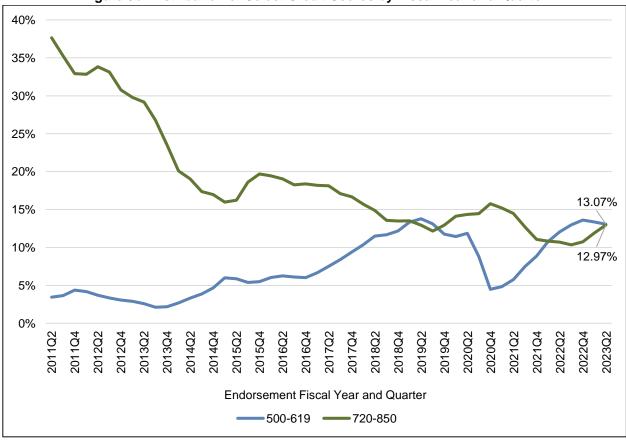
As shown in Figure 3a, the distribution of credit scores for FHA loans has gradually shifted over the past few years. The core of the distribution continues to be in the 640–679 range (37.65 percent). In the second quarter of FY 2023, the share of 720+ credit scores increased by 1.06 percentage points from the quarter prior. (Figure 3a, Exhibit A-3).





NOTE: Excludes streamline refinance and HECM activity. SOURCE: U.S. Department of HUD/FHA, April 2023.

Figure 3b shows another perspective of the shift in FHA's credit profile, with loans endorsed with greater than 720 credit scores increasing to 11.91 percent in the second quarter of FY 2023 from 10.75 percent in the prior quarter. Loans endorsed with less than 620 credit scores declined from 13.62 percent in the fourth quarter of FY 2022 to 13.37 percent this quarter.





NOTE: Excludes streamline refinance and HECM activity. SOURCE: U.S. Department of HUD/FHA, April 2023.

Debt-to-Income (DTI)

Approximately 31 percent of all FHA-insured forward mortgage purchase endorsements in the second quarter of FY 2023 were for mortgages with DTI ratios of 50 percent or greater. This is down slightly from approximately 32 percent last quarter, but higher by nearly 5 percentage points than the level seen prior to the pandemic. The average DTI for all endorsements during this quarter decreased to 45.17 percent, compared with 45.34 percent the previous quarter. The distribution changes and historical average DTI are shown in Figure 4a below. In addition, Figure 4b reflects the mean DTI, mean payment-to-income ratio (PTI) as well as the spread between those two ratios for endorsed FHA forward mortgages. The decrease in the spread between ratios suggests that borrowers are spending a larger percentage of their incomes on housing expenses, likely due at least in part to declining affordability resulting from rising home prices seen in recent years, along with recent increases in market interest rates.

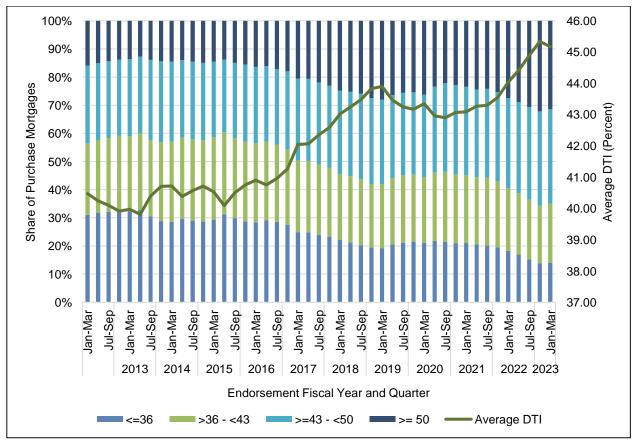
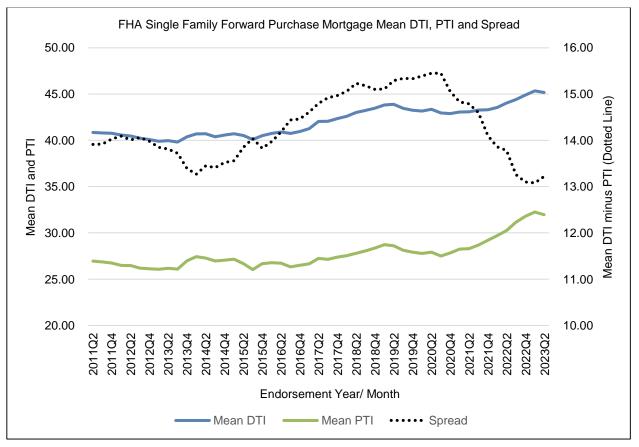
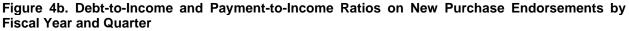


Figure 4a. Debt-to-Income Ratios on New Purchase Endorsements by Fiscal Year and Quarter

NOTE: FHA Single Family purchase mortgages only. SOURCE: U.S. Department of HUD/FHA, April 2023.

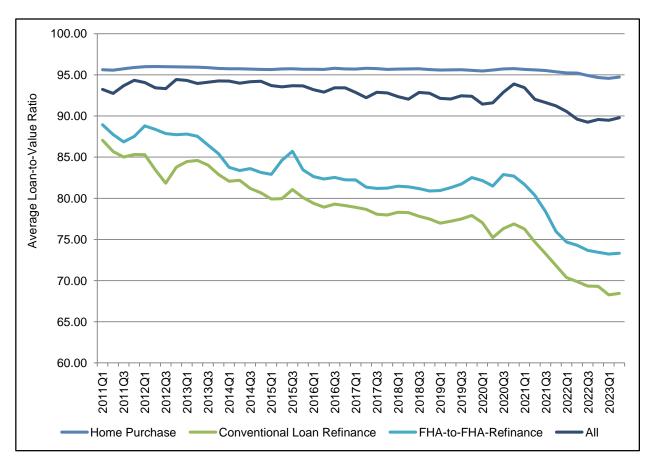




NOTE: FHA Single Family purchase mortgages only. SOURCE: U.S. Department of HUD/FHA, April 2023.

Average Loan-to-Value (LTV)

The average overall LTV ratio for purchase and refinance loans increased from 89.48 percent to 89.79 percent for all FHA mortgages combined. LTV ratios increased across all endorsement types for the second quarter of fiscal year 2023. Typically, LTV ratios of refinance mortgages are lower than home purchase mortgages. (Figure 5, Exhibit A-5, Exhibit A-6).¹





NOTE: Excludes streamline refinance and HECM activity. SOURCE: U.S. Department of HUD/FHA, April 2023.

¹ For a typical purchase mortgage endorsement, FHA charges an upfront mortgage insurance premium (UFMIP) of 1.75 percent of the loan balance. FHA permits borrowers to finance the UFMIP by having it added to the loan balance, and nearly all FHA borrowers do so. However, despite the increase in the loan balance, FHA reporting conventions have been, and remain, to report the LTV ratio on the loan balance without inclusion of the UFMIP. In the conventional market, custom would be to include a financed premium into the loan balance, and therefore the calculation of the LTV ratio. Additionally, in the conventional market for a low-down payment mortgage, an Interested Party Contribution (IPC) in excess of 3 percent of the value of the home is treated as a reduction in the value of the home, resulting in an increase in the reported LTV ratio of the transaction. For FHA-insured mortgages, no downward adjustment is made to the value of the property unless an IPC exceeds 6 percent of the value of the home.

Predicted and Actual Termination and Claim-Loss Rates

The predicted-versus-actual comparisons through the second quarter of FY 2023 are presented in Figure 6. Claims were still below predicted levels due to prior year policy decisions regarding eviction moratoria, forbearance, and loss mitigation options. Through the second quarter of FY 2023, the number of actual claims was 7,118 or 65.54 percent less than the predicted 20,656. While there were significantly fewer claims than predicted, those loans that resulted in claims had typically been delinquent longer, had more missed payments, and were in worse condition at foreclosure, thus resulting in a 6.74 percentage point deviation between predicted and actual loss rates.

As of March 2023	Year to Date Predicted ¹	Year to Date Actual	Deviation (Actual Minus Predicted)	Percentage Deviation (Actual Versus Predicted)
Prepayments (number)	346,279	224,036	(122,243)	(35.30)
Claims (number) ²	20,656	7,118	(13,538)	(65.54)
Claims (\$ millions) ³	1,577	483	(1,095)	(69.40)
Net Loss on Claims (%) ⁴	25.14	31.88	6.74	26.82

Figure 6. Termination and Claim Loss Experience Compared to Forecasts¹

na = not applicable.

Note: Due to differences in timing and data sources, the cash flow amounts may not reconcile fully with other tables in this report. Excludes HECM endorsements.

¹ Deviations in this quarter's predicted versus actual prepayments, claims and loss rates have resulted from persistent and unexpected economic and policy conditions which were not in existence during the original modeled estimates. It is expected as budgetary and forecast models become more aligned with policy and economic realities, deviations in predicted and actual values should tighten.

² Projections of prepayment counts, claim counts, and claim dollars are modeled for the FY 2022 and FY 2023 FHA financial statements. All projections shown here use quarterly forecasts and thus reflect cyclical trends throughout the year.

³ Claim payments and counts reported here include those for conveyance (foreclosure) claims, pre-foreclosure (short) sales, and claims paid in connection with sales of delinquent mortgages. They do not include payments for loss mitigation mortgage-workout actions.

⁴ These rates are losses as a percentage of the defaulted mortgage balance, for both conveyance and pre-foreclosure-sale claims. Includes only mortgages in the MMI Fund.

Budget Execution Credit Subsidy Rates

The budget execution subsidy rate for forward mortgages for FY 2023 is -3.05 percent. The subsidy rate for HECM mortgages is -4.19 percent for FY 2023 (Figure 7).

Type of Mortgage	Rate (%) ¹
Forward Mortgages	-3.05
Reverse Mortgages (HECM)	-4.19
¹ Budget execution credit subsidy rates are the expected net present value, per dollar of new ins	urance

Figure 7. Budget Execution Credit Subsidy Rates, FY 2023 Q2

¹ Budget execution credit subsidy rates are the expected net present value, per dollar of new insurance endorsements, of all cash flows from insurance operations over the life of the mortgage insurance as of the year of the insurance commitments. A negative rate means that the present value of premium revenues is expected to be greater than the present value of net claim expenses over the life of the insurance, i.e., a negative subsidy. Mortgages with negative credit subsidies are expected to produce receipts for the federal budget. These initial budget-execution rates are those approved by the Office of Management and Budget for budget accounting. The rates are updated on an annual basis, once the insurance cash flows. For a historical breakdown of credit subsidy rates and re-estimates, see <a href="https://www.govinfo.gov/content/pkg/BUDGET-2023-BUD/pdf/BUDGET-2023-BUD/

MMI Fund Cash and Investments

As Figure 8 shows, the total cash and investments of the MMI Fund increased to \$135.98 billion in the second quarter of FY 2023, with \$10.38 billion held in the Financing account and \$125.60 billion held in the Capital Reserve account. MMIF Total Capital Resources is derived from netting other assets and liabilities from total cash and investments.

Fiscal Year	Quarter	Capital Reserve Account ¹ (\$ billions)	Financing Account ² (\$ billions)	Total ^{3,4} (\$ billions)
	Oct–Dec	10.43	35.76	46.20
0045	Jan–Mar	12.87	33.46	46.33
2015	Apr-Jun	11.97	34.52	46.49
	Jul-Sep	15.99	29.64	45.63
	Oct–Dec	18.17	27.34	45.51
2016	Jan–Mar	20.21	25.33	45.55
2010	Apr–Jun	34.44	16.55	50.99
	Jul–Sep	37.24	12.59	49.83
	Oct-Dec	40.32	9.58	49.90
2017	Jan–Mar	43.05	7.42	50.46
2017	Apr–Jun	28.82	22.83	51.65
	Jul–Sep	31.64	18.47	50.11
	Oct–Dec	33.49	17.34	50.83
2018	Jan–Mar	35.14	16.47	51.61
2010	Apr–Jun	25.35	27.08	52.42
	Jul–Sep	27.22	23.00	50.22
	Oct–Dec	28.89	20.63	49.52
2019	Jan–Mar	30.41	19.47	49.87
2010	Apr–Jun	48.41	10.43	58.84
	Jul-Sep	51.01	4.28	55.29
	Oct-Dec	52.90	3.76	56.66
2020	Jan–Mar	54.90	17.51	72.41
2020	Apr–Jun	67.63	6.68	74.31
	Jul–Sep	69.57	10.28	79.86
	Oct–Dec	72.65	9.62	82.27
2021	Jan–Mar	77.03	7.76	84.79
	Apr–Jun	82.41	4.95	87.36
	Jul–Sep	97.79	4.56	102.34
	Oct–Dec	97.25	7.59	104.83
2022	Jan–Mar	98.83	6.00	104.83
2022	Apr–Jun	119.55	18.46	138.01
	Jul-Sep	121.61	10.03	131.65
2023	Oct-Dec	123.24	10.23	133.47
	Jan–Mar vear balances represe	125.60	10.38	135.98

Figure 8. MMI Fund Cash and Investments by Quarter, FY 2015 - FY 2023

NOTE: Only end-of-year balances represent audited figures.

¹ This is an on-budget account that records net receipts provided by FHA to the federal budget over time. Balances are held in cash and Treasury securities. The securities earn interest for FHA. Periods in which irregular changes to the balance are seen represent times when HUD transfers funds to/from the Financing account for the rebalancing required by annual budget re-estimates. The MMI Fund Cash and Investments includes a \$1.7 billion mandatory appropriation taken in FY 2013.

² This is a series of off-budget cash accounts used to manage insurance operation collections and disbursements.

³ Total is the sum of cash and investments in the Capital Reserve and Financing accounts. It excludes other assets and liabilities.

⁴ Capital Reserve Account and Financing Account may not always add to total because of rounding.

Cash Flows from Business Operations

Second quarter FY 2023 net cash flow decreased to \$1,440 million compared to first quarter FY 2023 net cash flow of \$1,889 million, due to lower premiums as a result of decreased volumes compared to the prior quarter. In addition to lower premium collections, claims cost increased by 16 percent this quarter (Figure 9). HUD has been proactive in reducing average losses per claim through a more diversified asset disposition strategy, which includes the promotion of third-party sales at foreclosure auctions through its Claims Without Conveyance of Title (CWCOT) program and expanded use of pre-foreclosure (short) and note sales. Overall, claim costs (as measured by loss rates) have decreased from a high of 55 percent in 2014 to around 31 percent over the last four quarters (see Exhibit A-7).

	FY 2022 Q3	FY 2022 Q4	FY 2023 Q1	FY 2023 Q2	Past 4 Quarters
Collections:					
Premiums	3,297	3,290	3,153	3,072	12,812
Property Sale Receipts	148	119	128	139	534
Note Sale Proceeds ¹	32	111	0	0	143
Notes Collections ²	1,682	1,309	888	842	4,721
Other (includes Settlements & Debt collections)	12	11	10	45	78
Total	5,171	4,840	4,179	4,098	18,288
Disbursements:					
Claims ³	(4,020)	(2,714)	(2,247)	(2,611)	(11,592)
Property Maintenance	(15)	(13)	(12)	(13)	(53)
Note Disbursements	(29)	(29)	(28)	(29)	(115)
Other	(2)	2	(3)	(5)	(8)
Total	(4,066)	(2,754)	(2,290)	(2,658)	(11,768)
Net Operations Cash Flow	1,105	2,086	1,889	1,440	6,520

Figure 9. Business Operations Cash Flows, FY 2022 Q3 – FY 2023 Q2 (\$ millions)

NOTE: Unaudited figures; details may not sum to total due to rounding. Due to differences in timing and data sources, the cash flow amounts may not reconcile fully with other tables in this report.

¹ Note Sale Proceeds are the Cash Receipts from Note Sales.

² Note Collections, include Principal and Interest collections on HUD-held defaulted notes (Partial Claims)

³ Claims payments shown here include conveyance, pre-foreclosure sale, note sales, loss mitigation (home retention) actions, and all HECM claims (assignment and shortfall claims).

Early-Payment Default Rates

The overall Early-Payment Default (EPD) rate remains elevated compared to pre-pandemic levels. FHA saw a large jump in EPD rates at the beginning of the pandemic which continued through mid-2020. The EPD rate increased in the second quarter of FY 2023 to 2.43 percent compared to the previous quarter's rate of 2.26 percent.

Fiscal Year	Origination	Mor	tgage Type/Purp	oose
i iscai i cai	Quarter	Purchase	Refinance	All ¹
	Oct-Dec	0.32	0.29	0.31
0014	Jan-Mar	0.37	0.33	0.36
2014	Apr-Jun	0.46	0.37	0.44
	Jul-Sep	0.45	0.34	0.43
	Oct-Dec	0.36	0.27	0.34
0045	Jan-Mar	0.42	0.24	0.35
2015	Apr-Jun	0.43	0.28	0.37
	Jul-Sep	0.42	0.34	0.40
	Oct-Dec	0.31	0.27	0.30
0010	Jan-Mar	0.37	0.23	0.32
2016	Apr-Jun	0.46	0.34	0.42
	Jul-Sep	0.45	0.32	0.41
	Oct-Dec	0.31	0.22	0.28
2017	Jan-Mar	0.41	0.24	0.35
	Apr-Jun	1.14	0.65	1.02
	Jul-Sep	1.44	1.17	1.38
	Oct-Dec	0.48	0.35	0.44
2018	Jan-Mar	0.57	0.30	0.49
2018	Apr-Jun	0.85	0.45	0.77
	Jul-Sep	0.96	0.47	0.87
	Oct-Dec	0.79	0.47	0.72
2019	Jan-Mar	0.77	0.42	0.68
2019	Apr-Jun	1.00	0.46	0.87
	Jul-Sep	0.85	0.41	0.72
	Oct-Dec	2.61	2.35	2.51
2020	Jan-Mar	8.71	9.17	8.91
2020	Apr-Jun	4.68	5.98	5.18
	Jul-Sep	2.57	2.55	2.57
	Oct-Dec	1.93	1.36	1.73
2021	Jan-Mar	1.43	0.76	1.11
2021	Apr-Jun	1.87	0.89	1.43
	Jul-Sep	2.38	1.22	1.96
	Oct-Dec	2.20	1.08	1.81
2022	Jan-Mar	2.04	0.99	1.69
	Apr-Jun	2.68	1.14	2.26
	Jul-Sep*	2.70	1.43	2.43

Figure 10. Early Payment Default Rates

¹ Percent of mortgages originated in each quarter for FHA insurance that experience a three-month delinquency in the first six payment cycle.

*Data for July and August only. There is a 7-month lag. Due to late reporting by a large servicer,

the EPD rates in FY 2020 Q4 are likely understated. SOURCE: U.S. Department of HUD/FHA, April 2023.

Serious Delinquency Rates

The pandemic and its impact to the health and economic condition of citizens has been a major factor for the increase in serious delinquency (SDQ) rates compared to FHA's pre-pandemic rate. Starting in April 2020, a significant number of FHA borrowers requested approval to pause their monthly mortgage payments under the forbearance provisions of the CARES Act. As forbearance requests transitioned into payment delinquencies starting in the summer of 2020, the SDQ rate quickly rose from 4.04 percent in April 2020 to 11.90 percent by November FY 2020, as seen in Figure 11 below. However, the SDQ rate has since significantly improved, and the portfolio experienced a decline to 4.53 percent at the end of the second quarter of FY 2023.

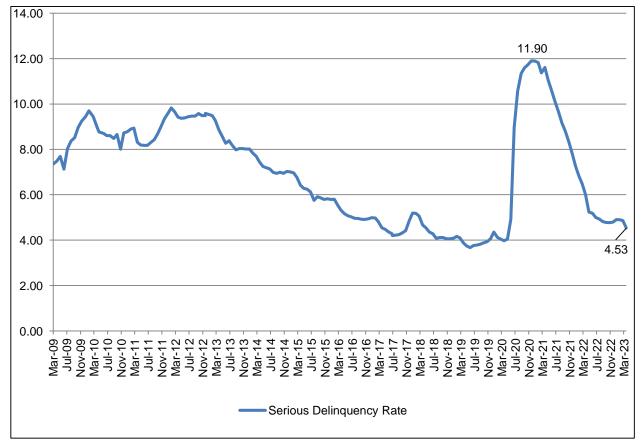


Figure 11. Serious Delinquency Rates, All Single-Family Forward Endorsements

SOURCE: U.S. Department of HUD/FHA, April 2023.

Since the start of the pandemic, FHA has helped more than 2 million borrowers with FHA-insured mortgages through COVID-19 forbearance and COVID-19 loss mitigation home retention options. Of those 2 million borrowers, as of March 31, 2023, over 1.8 million FHA borrowers received a forbearance due to a hardship created or exacerbated by COVID-19. Over 1 million of these borrowers have subsequently transitioned into a loss mitigation plan that would enable the borrower to remain in the home through a home retention option or are in process of doing so.

Another 759,000 have cured or paid off their mortgage without need of a loss mitigation plan. Of those that successfully transitioned into a loss mitigation plan, the vast majority remained current or had paid off their loans while approximately 180,000 had become delinquent again.

While 110,000 of the total SDQ population remains in forbearance, another 240,000 households with FHA-insured mortgages who have not sought assistance from their mortgage servicer or have not completed a loss mitigation home retention option remain behind on their mortgage payments. It is this remaining population in particular that FHA will continue to focus on reaching and assisting through FHA loss-mitigation home retention options.

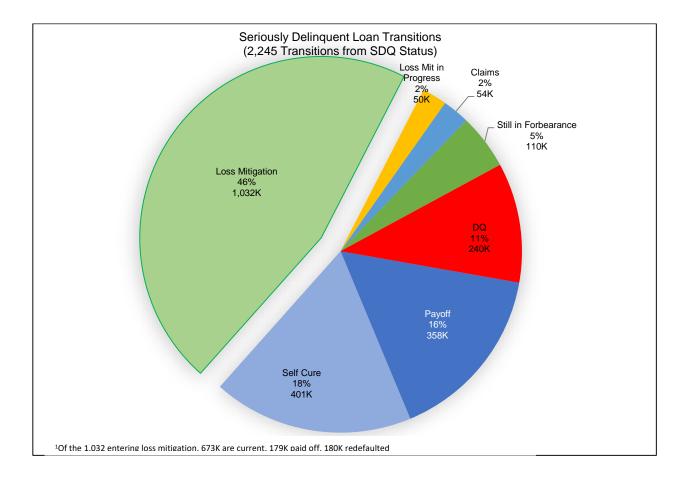


Figure 12. Status of Borrowers Who Were Delinquent During the COVID-19 Emergency

APPENDIX

	Forward Mortgages Conventional					
	Home Purchase	Loan Refinance	FHA-to-FHA Refinance	All Forward Loans	(HECM) ¹	
Fiscal Year						
2010	1,109,582	305,530	252,498	1,667,610	79,058	
2011	777,426	195,559	224,824	1,197,809	73,112	
2012	733,864	129,221	321,655	1,184,740	54,812	
2012	702,415	91,500	550,931	1,344,846	59,924	
2014	594,998	55,354	136,000	786,352	51,616	
2015	753,387	80,014	282,829	1,116,230	57,990	
2015	879,512	107,464	271,072	1,258,048	48,868	
	882,077	126,877	237,480	1,246,434	55,290	
2017						
2018	776,275	109,455	128,871	1,014,601	48,329	
2019	743,278	103,949	143,198	990,425	31,272	
2020	817,833	94,554	420,763	1,333,150	41,835	
2021	846,243	84,573	502,048	1,432,864	49,195	
2022	692,842	90,796	198,558	982,196	64,457	
2023	257,439	36,144	32,307	325,890	18,001	
Fiscal Year a	nd Quarter					
2016 Q1	210,550	27,164	63,471	301,185	12,578	
2016 Q2	187,069	26,110	64,246	277,425	13,002	
2016 Q3	225,132	26,059	65,903	317,094	11,643	
2016 Q4	256,761	28,131	77,452	362,344	11,645	
2017 Q1	220,353	30,153	87,011	337,517	12,453	
2017 Q2	195,485	35,489	67,318	298,292	14,351	
2017 Q3	230,475	31,055	44,003	305,533	14,720	
2017 Q4	235,764	30,180	39,148	305,092	13,766	
2018 Q1 2018 Q2	195,513 166,640	30,093 28,814	42,032 40,000	267,638	14,024 15,802	
2018 Q2 2018 Q3	202,746	25,313	24,270	235,454 252,329	9,529	
2018 Q3 2018 Q4	202,746 211,376	25,235	24,270 22,569	252,329	9,529 8,974	
2010 Q4 2019 Q1	179,590	26,195	22,932	228,717	7,386	
2019 Q2	153,566	23,759	24,631	201,956	8,222	
2019 Q3	192,032	25,430	35,872	253,334	8,139	
2019 Q4	218,090	28,565	59,763	306,418	7,525	
2020 Q1	197,376	32,834	95,300	325,510	8,587	
2020 Q2	194,069	28,596	112,157	334,822	10,208	
2020 Q3	191,924	18,979	102,696	313,599	10,843	
2020 Q4	234,464	14,145	110,610	359,219	12,197	
2021 Q1	228,155	15,761	113,691	357,607	11,398	
2021 Q2	193,522	22,014	142,844	358,380	12,814	
2021 Q3	203,986	23,173	138,953	366,112	12,694	
2021 Q4	220,580	23,625	106,560	350,765	12,289	
2022 Q1	201,819	23,235	81,422	306,476	15,195	
2022 Q2	161,697	22,186	57,082	240,965	17,422	
2022 Q3	161,078	23,250	34,391	218,719	17,967	
2022 Q4	168,248	22,125	25,663	216,036	13,873	
2023 Q1	140,890	19,773	18,492	179,155	9,554	
2023 Q2	116,549	16,371	13,815	146,735	8,447	

Exhibit A-1. Forward & HECM Endorsement Counts

¹ The FHA reverse-mortgage insurance program is called the Home Equity Conversion Mortgage (HECM) program. Starting in FY 2009 (2008 Q4), all new HECM endorsements are included in the Mutual Mortgage Insurance Fund. Previous endorsements, by law, remain in the General and Special Risk Insurance Fund.

	Volumes (\$ Millions)				
		Reverse			
	Home	Conventional	rd Mortgages FHA-to-FHA	All Forward	Mortgages
	Purchase	Loan Refinance	Refinance	Loans	(HECM) ¹
Fiscal Year				·	
2010	191,658	56,470	49,475	297,603	21,074
2011	134,397	36,963	46,449	217,809	18,215
2012	124,475	23,478	65,352	213,304	13,162
2013	124,934	16,932	98,250	240,116	14,681
2014	105,721	9,410	20,085	135,216	13,521
2015	140,262	14,428	58,431	213,121	16,130
2016	171,632	20,550	53,223	245,405	14,660
2017	178,621	25,303	47,031	250,955	17,691
2018	160,894	21,678	26,477	209,050	16,190
2019	159,367	21,281	33,973	214,621	10,859
2020	188,214	20,591	101,516	310,321	16,290
2021	209,986	18,274	114,563	342,823	21,350
2022	189,524	20,165	45,816	255,505	32,113
2023	74,190	8,010	7,655	89,855	8,753
Fiscal Year and Quarter					
2016 Q1	40,563	5,038	12,480	58,081	3,625
2016 Q2	36,486	5,035	12,008	53,529	3,906
2016 Q3	43,525	4,975	13,038	61,538	3,527
2016 Q4	51,059	5,502	15,696	72,257	3,603
2017 Q1	44,120	6,027	18,149	68,296	3,892
2017 Q2	39,558	7,137	13,048	59,742	4,548
2017 Q3	46,441	6,146	8,251	60,838	4,801
2017 Q4	48,502	5,992	7,583	62,077	4,450
2018 Q1	40,239	5,939	8,508	54,686	4,584
2018 Q2	34,803	5,782	8,374	48,959	5,388
2018 Q3	41,677	5,007	4,915	51,599	3,183
2018 Q4	44,176	4,949	4,681	53,806	3,034
2019 Q1	37,651	5,106	4,790	47,548	2,481
2019 Q2	32,423	4,722	5,420	42,565	2,801
2019 Q3	40,947	5,263	8,573	54,783	2,884
2019 Q4	48,346	6,190	15,189	69,725	2,693
2020 Q1	44,462	7,133	23,762	75,357	3,135
2020 Q2	44,412	6,117	27,286	77,815	3,870
2020 Q3	44,232	4,234	24,724	73,190	4,228
2020 Q4	55,108	3,108	25,744	83,960	5,057
2021 Q1	55,010	3,421	26,246	84,676	4,715
2021 Q2	47,586	4,730	33,222	85,538	5,319
2021 Q3	50,647	4,981	31,331	86,958	5,603
2021 Q4	56,744	5,142	23,764	85,650	5,713
2022 Q1	52,893	5,014	17,972	75,880	7,193
2022 Q2	43,595	4,934	13,179	61,708	8,397
2022 Q3	44,873	5,242	8,354	58,469	9,324
2022 Q4	48,162	4,974	6,311	59,448	7,200
2023 Q1	40,288	4,368	4,409	49,066	4,747
2023 Q2	33,902	3,641	3,246	40,789	4,006

Exhibit A-2.	Endorsement	Volumes
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¹ The FHA reverse-mortgage insurance program is called Home Equity Conversion Mortgage (HECM). Starting in FY 2009 (2008 Q4), all new HECM endorsements are now in the Mutual Mortgage Insurance Fund. Previous endorsements, by law, remain in the General and Special Risk Insurance Fund. SOURCE: U.S. Department of HUD/FHA, April 2023.

				Credit Score Ra		,
Fiscal Year	Quarter	500–619	620–639	640–679	680–719	720–850
	Oct-Dec	2.69	7.66	42.34	27.22	20.10
2014	Jan–Mar	3.33	9.10	41.94	26.60	19.03
	Apr–Jun	3.87	10.42	42.02	26.31	17.37
	Jul–Sep	4.67	11.15	41.30	25.92	16.96
	Oct-Dec	6.00	12.29	40.37	25.37	15.97
2015	Jan–Mar	5.87	12.34	39.95	25.62	16.23
2015	Apr–Jun	5.39	11.56	38.00	26.44	18.62
	Jul–Sep	5.51	11.38	36.84	26.59	19.68
	Oct–Dec	6.04	11.83	36.62	26.06	19.44
2016	Jan–Mar	6.26	11.97	36.40	26.33	19.04
2010	Apr–Jun	6.11	12.78	37.21	25.64	18.26
	Jul–Sep	6.03	12.69	37.00	25.90	18.37
	Oct–Dec	6.67	12.86	36.55	25.74	18.18
2017	Jan–Mar	7.53	12.84	36.18	25.33	18.12
2017	Apr–Jun	8.40	13.71	36.44	24.35	17.10
	Jul–Sep	9.39	13.88	36.14	23.92	16.67
	Oct-Dec	10.36	14.41	36.34	23.20	15.70
2018	Jan–Mar	11.51	14.49	36.38	22.75	14.87
2016	Apr–Jun	11.67	15.29	37.36	22.12	13.57
	Jul–Sep	12.18	15.36	37.23	21.73	13.49
	Oct-Dec	13.34	15.41	36.61	21.13	13.51
2019	Jan–Mar	13.79	15.87	36.74	20.66	12.94
2019	Apr–Jun	13.10	16.38	37.68	20.66	12.17
	Jul–Sep	11.76	15.34	38.38	21.57	12.95
	Oct-Dec	11.45	14.89	37.51	22.03	14.12
2020	Jan–Mar	11.86	15.29	37.16	21.35	14.35
2020	Apr–Jun	8.81	13.57	40.03	23.13	14.46
	Jul–Sep	4.48	11.68	42.35	25.72	15.77
	Oct–Dec	4.84	12.27	42.78	24.91	15.19
2021	Jan–Mar	5.78	13.47	42.44	23.84	14.48
2021	Apr–Jun	7.50	15.64	42.26	21.93	12.68
	Jul–Sep	8.87	16.88	42.72	20.47	11.06
	Oct–Dec	10.80	17.19	41.36	19.82	10.84
2022	Jan–Mar	12.06	17.17	40.46	19.60	10.71
	Apr–Jun	12.98	16.90	40.25	19.53	10.34
	Jul–Sep	13.62	15.87	39.41	20.36	10.75
2023	Oct–Dec	13.37	15.03	38.39	21.31	11.91
2020	Jan–Mar	13.07	14.63	37.65	21.68	12.97

Exhibit A-3. Credit Score Distributions on New Endorsements (%)

NOTE: Shares are based on loan counts. Excludes streamline refinances. Credit scores are cobranded between the three major credit repositories (Equifax, Experian, TransUnion) and Fair Isaac Corporation (FICO). Values can range from 300 to 850. FHA policy permits credit scores of 580 and above, except for loans with equity positions of 10 percent or more which may have credit scores as low as 500. Streamline refinance loans do not require full underwriting; therefore, they are not represented here SOURCE: U.S. Department of HUD/FHA, April 2023.

		Mortgage Purpose				
Fiscal Year	Quarter	Home Purchase	Conventional Loan Refinance	FHA-to-FHA Refinance	All	
	Oct–Dec	685	677	679	685	
	Jan–Mar	684	674	675	682	
2014	Apr–Jun	681	672	673	680	
	Jul–Sep	680	671	671	679	
	Oct-Dec	677	669	669	676	
0045	Jan–Mar	678	673	675	677	
2015	Apr–Jun	681	678	679	680	
	Jul–Sep	682	677	674	681	
	Oct-Dec	682	676	673	680	
0040	Jan–Mar	681	676	672	680	
2016	Apr–Jun	679	677	673	679	
	Jul–Sep	680	677	672	679	
	Oct–Dec	679	677	673	678	
0047	Jan–Mar	679	675	669	678	
2017	Apr–Jun	676	672	666	675	
	Jul–Sep	676	669	664	674	
	Oct-Dec	674	668	663	672	
2010	Jan–Mar	672	666	661	670	
2018	Apr–Jun	669	664	660	668	
	Jul–Sep	669	663	658	668	
	Oct-Dec	668	662	657	667	
2019	Jan–Mar	667	660	656	665	
2019	Apr–Jun	666	663	659	665	
	Jul–Sep	668	667	663	667	
	Oct-Dec	670	667	666	669	
2020	Jan–Mar	671	661	662	669	
2020	Apr–Jun	673	664	667	672	
	Jul–Sep	677	674	674	677	
	Oct–Dec	676	673	672	676	
2021	Jan-Mar	675	671	670	674	
2021	Apr–Jun	671	665	663	670	
	Jul-Sep	669	659	656	666	
	Oct–Dec	668	654	651	665	
2022	Jan-Mar	668 667	652 650	649 646	664 663	
	Apr–Jun Jul–Sep	667 669	646	646 642	663	
	Oct-Dec	670	647	642	665	
2023	Jan-Mar	671	649	643	666	

Exhibit A-4. Average Credit Scores on New Endorsements

NOTE: Credit scores are cobranded between the three major credit repositories (Equifax, Experian, TransUnion) and Fair Isaac Corporation (FICO). Values can range from 300 to 850. FHA policy permits credit scores of 580 and above, except for loans with equity positions of 10 percent or more, which may have credit scores as low as 500. Streamline refinance loans do not require full underwriting; therefore, they are not represented here. SOURCE: U.S. Department of HUD/FHA, April 2023.

		lue (LTV) Ratio ¹ D	istribution on New E	Endorsements	
			LTV Cat		
Fiscal Year	Quarter		(Shares in each ro	w add up to 100%)	
		Up to 80	81-90	91-95	96-98
	Oct–Dec	5.59	9.94	9.00	75.47
2014	Jan–Mar	6.09	10.91	9.41	73.59
2011	Apr–Jun	5.63	9.61	9.04	75.72
	Jul–Sep	5.46	9.46	9.14	75.95
	Oct–Dec	6.71	10.79	8.93	73.57
2015	Jan–Mar	7.10	11.65	8.97	72.28
2013	Apr–Jun	6.14	11.58	8.76	73.52
	Jul–Sep	6.44	11.13	8.35	74.08
	Oct-Dec	7.55	12.57	8.26	71.62
2016	Jan–Mar	8.13	13.31	8.26	70.30
2016	Apr–Jun	6.84	11.76	7.72	73.69
	Jul–Sep	6.86	12.02	7.80	73.32
	Oct-Dec	8.06	13.98	7.73	70.23
0017	Jan-Mar	9.67	16.02	7.66	66.64
2017	Apr–Jun	8.03	13.82	7.57	70.58
	Jul–Sep	7.99	14.45	7.50	70.06
	Oct–Dec	8.84	16.41	7.42	67.34
	Jan-Mar	9.57	17.64	7.04	65.75
2018	Apr–Jun	7.88	14.44	6.88	70.81
	Jul–Sep	8.00	14.88	7.13	70.00
	Oct–Dec	9.31	16.79	7.06	66.83
	Jan-Mar	9.30	17.60	6.84	66.26
2019	Apr–Jun	8.34	16.28	6.80	68.59
	Jul–Sep	8.43	16.81	7.10	67.67
	Oct–Dec	13.88	14.76	7.54	63.82
	Jan–Mar	17.57	8.13	8.06	66.24
2020	Apr–Jun	12.61	6.87	7.90	72.61
	Jul-Sep	8.57	6.02	7.51	77.91
	Oct-Dec	10.16	6.60	7.85	75.39
	Jan-Mar	15.11	7.64	7.85	69.40
2021	Apr–Jun	16.38	7.37	7.35	68.90
	Jul–Sep	18.51	6.65	7.17	67.66
	Oct–Dec	21.13	6.22	6.97	65.68
	Jan-Mar	25.10	5.91	6.75	62.24
2022	Apr–Jun	26.30	5.87	6.94	60.89
	Jul-Sep	24.81	6.37	8.03	60.80
	Oct-Dec	24.29	6.82	8.38	60.52
2023	Jan-Mar	23.19	6.46	8.33	62.02

NOTE: Shares are based on loan counts. Excludes streamline refinances. ¹In accordance with statutory requirements for determining eligibility of loans for FHA insurance, HUD measures loan-to- values (LTV) ratio without including any financed insurance premium in the loan balance. SOURCE: U.S. Department of HUD/FHA, April 2023.

			()		
Fiscal Year	Quarter	Home Purchase	Conventional Mortgage Refinance	FHA-to-FHA Refinance ¹	All ¹
	Oct–Dec	95.74	82.08	83.77	94.24
2014	Jan-Mar	95.73	82.19	83.37	93.98
2014	Apr–Jun	95.70	81.21	83.60	94.15
	Jul–Sep	95.66	80.68	83.15	94.21
	Oct–Dec	95.63	79.91	82.91	93.70
2015	Jan–Mar	95.72	79.96	84.61	93.53
2013	Apr–Jun	95.73	81.06	85.71	93.68
	Jul–Sep	95.67	80.10	83.45	93.66
	Oct-Dec	95.68	79.39	82.64	93.18
2016	Jan–Mar	95.65	78.93	82.34	92.90
2010	Apr–Jun	95.79	79.29	82.54	93.42
	Jul–Sep	95.72	79.12	82.25	93.42
	Oct-Dec	95.70	78.91	82.23	92.86
2017	Jan–Mar	95.78	78.65	81.35	92.21
2017	Apr–Jun	95.75	78.07	81.21	92.87
	Jul–Sep	95.65	77.98	81.24	92.80
	Oct–Dec	95.70	78.31	81.48	92.36
2018	Jan–Mar	95.72	78.26	81.40	92.04
2010	Apr–Jun	95.73	77.82	81.19	92.86
	Jul–Sep	95.64	77.50	80.89	92.76
	Oct–Dec	95.57	76.98	80.94	92.13
2019	Jan–Mar	95.60	77.21	81.30	92.05
2019	Apr–Jun	95.61	77.50	81.72	92.44
	Jul–Sep	95.54	77.92	82.52	92.39
	Oct-Dec	95.46	77.05	82.16	91.44
2020	Jan–Mar	95.57	75.24	81.49	91.60
2020	Apr–Jun	95.71	76.33	82.90	92.87
	Jul–Sep	95.76	76.89	82.69	93.89
	Oct-Dec	95.66	76.29	81.69	93.43
2021	Jan–Mar	95.60	74.69	80.36	92.02
2021	Apr–Jun	95.52	73.29	78.42	91.64
	Jul–Sep	95.36	71.84	75.98	91.22
	Oct–Dec	95.23	70.37	74.69	90.55
2022	Jan-Mar	95.20	69.88	74.30	89.62
	Apr–Jun	94.92	69.33	73.68	89.25
	Jul–Sep	94.66	69.29	73.45	89.57
2023	Oct–Dec	94.57	68.27	73.22	89.48
2020	Jan-Mar	94.73	68.44	73.34	89.79

Exhibit A-6. Average Loan-to-Value (LTV) Ratios on New Endorsements (%)

NOTE: In accordance with statutory requirements for determining eligibility of loans for FHA insurance, HUD measures loanto-value (LTV) without including any mortgage insurance premium financed in the loan balance.

¹ These include only fully underwritten loans and exclude streamline refinancing.

Fiscal		Loss Rates (% Unpaid Principal Balance)				Disposition Counts			
Year	Quarter	REO Loss Rate	REO Alternatives Loss Rate	Overall Loss Rate	REO Dispositions	REO Alternatives Dispositions ²	Total Dispositions	Alternatives Share of Dispositions	
	Oct-Dec	59.63	44.25	49.58	13,269	20,026	33,295	60.15	
2045	Jan-Mar	61.37	43.25	52.64	14,199	10,372	24,571	42.21	
2015	Apr-June	59.72	41.00	51.68	16,185	10,010	26,195	38.21	
	Jul-Sep	60.62	46.40	52.85	17,105	15,587	32,692	47.68	
	Oct-Dec	62.92	47.41	54.68	16,704	15,121	31,825	47.51	
0040	Jan-Mar	63.35	45.97	54.31	15,134	13,323	28,457	46.82	
2016	Apr-Jun	60.35	47.15	53.09	13,421	13,213	26,634	49.61	
	Jul-Sep	59.97	50.29	54.02	13,031	16,428	29,459	55.77	
	Oct-Dec	60.99	49.87	53.96	13,085	18,311	31,396	58.32	
0047	Jan-Mar	62.21	40.15	51.10	12,024	10,877	22,901	47.50	
2017	Apr-Jun	59.41	40.77	48.41	10,923	14,168	25,091	56.47	
	Jul-Sep	59.13	40.24	46.33	8,125	15,766	23,891	65.99	
	Oct-Dec	58.71	38.63	45.00	7,072	14,405	21,477	67.07	
0040	Jan-Mar	59.25	41.93	47.63	7,332	13,313	20,645	64.49	
2018	Apr-Jun	57.28	40.44	45.33	6,561	14,289	20,850	68.53	
	Jul-Sep	56.47	38.37	43.39	5,351	12,442	17,793	69.93	
	Oct-Dec	57.22	41.61	45.43	4,691	12,648	17,339	72.95	
0040	Jan-Mar	57.41	37.34	42.34	4,391	12,040	16,431	73.28	
2019	Apr-Jun	54.45	34.25	39.08	3,908	10,886	14,794	73.58	
	Jul-Sep	52.56	31.62	36.69	3,579	9,765	13,344	73.18	
	Oct-Dec	54.05	32.76	38.34	3,814	9,128	12,942	70.53	
0000	Jan-Mar	55.33	31.06	38.45	4,493	8,547	13,040	65.54	
2020	Apr-Jun	52.77	31.71	39.90	4,595	6,178	10,773	57.35	
	Jul-Sep	50.51	30.95	39.25	3,814	4,472	8,286	53.97	
	Oct-Dec	49.37	33.48	38.99	2,366	4,092	6,458	63.36	
2021	Jan-Mar	48.71	36.14	39.63	1,725	4,165	5,890	70.71	
2021	Apr-Jun	41.88	35.28	36.82	1,199	3,709	4,908	75.57	
	Jul-Sep	37.29	34.17	34.53	402	3,121	3,523	88.59	
	Oct-Dec Jan-Mar	37.19	35.11	35.55	591 802	2,669 3,075	3,260 3,877	81.87 79.31	
2022	Apr-Jun	30.26 25.97	33.16 32.63	32.48 31.37	802 784	3,075 4,306	3,877 5,090	79.31 84.60	
	Jul-Sep	30.56	31.79	31.58	648	4,252	4,900	86.78	
2023	Oct-Dec	30.57	32.80	32.28	756	3,497	4,253	82.22	
	Jan-Mar ¹	29.41	30.56	30.31	761	3,510	4,271	82.18	

Exhibit A-7. Termination Claim Type and Loss Severity Rates

NOTE: Real Estate Owned (REO) refers to properties that HUD has assumed ownership of through the conveyance of title.

¹ January and February 2023 only

² REO alternatives comprise short sales, claims without conveyance of title (CWCOT), and note sales. Short sales refer to the sale of property where the defaulted borrower sells his/her home and uses the net sale proceeds to satisfy the mortgage debt even though the proceeds are less that the amount owed. In the FHA single family program, short sales are referred to as pre-foreclosure sale (PFS). CWCOT is a program approved under Section 426 of the Housing and Urban-Rural Recovery Act of 1983. It is designed to reduce the number of single-family mortgages owned by HUD by authorizing the payment of claims to mortgagees without conveying (transferring) the title to the property to HUD. Note Sale refers to the sale of defaulted mortgage notes. Note Sales are conducted through the Single-Family Asset Sales program.

Fiscal Year		-						
i eai	Quarter	Conventional Cash-Out	FHA Cash-Out	Conventional No Cash-Out	FHA No Cash-Out	Streamline	Purchase	Total
(Oct-Dec	3.08	1.27	3.93	1.13	17.22	73.37	208,486
2014	Jan-Mar	3.44	1.66	4.74	1.26	16.05	72.85	164,491
2014	Apr-Jun	3.10	1.51	3.91	1.15	13.88	76.44	193,633
	Jul-Sep	3.01	1.66	3.23	1.07	11.76	79.27	219,742
(Oct-Dec	3.87	2.22	3.98	1.47	11.67	76.79	201,598
2015	Jan-Mar	3.75	2.16	3.96	2.42	21.49	66.22	200,138
2015	Apr-Jun	3.03	2.02	3.39	3.06	29.09	59.41	334,655
	Jul-Sep	3.69	2.30	3.49	2.01	18.15	70.36	379,839
(Oct-Dec	4.93	2.83	4.08	1.91	16.33	69.91	301,185
	Jan-Mar	5.42	3.07	4.00	2.04	18.05	67.43	277,425
2016	Apr-Jun	4.83	2.80	3.38	1.97	16.01	71.00	317,094
	Jul-Sep	4.75	2.92	3.01	1.73	16.72	70.86	362,344
	Oct-Dec	5.64	3.64	3.29	2.05	20.09	65.29	337,517
	Jan-Mar	7.74	4.85	4.15	1.80	15.91	65.53	298,292
2017	Apr-Jun	6.94	4.54	3.23	1.20	8.67	75.43	305,533
	Jul-Sep	7.16	5.27	2.73	1.15	6.42	77.28	305,092
	Oct-Dec	8.30	6.60	2.94	1.29	7.81	73.05	267,638
	Jan-Mar	9.21	7.32	3.03	1.33	8.33	70.77	235,454
2010	Apr-Jun	7.69	6.07	2.34	0.79	2.76	80.35	252,329
	Jul-Sep	7.80	6.61	1.93	0.65	1.45	81.56	259,180
	Oct-Dec	9.42	7.84	2.03	0.78	1.41	78.52	228,717
	Jan-Mar	9.71	7.99	2.05	0.88	3.33	76.04	201,956
2019	Apr-Jun	8.27	7.19	1.77	1.23	5.74	75.80	253,334
	Jul-Sep	7.76	7.08	1.56	2.01	10.42	71.17	306,418
	Oct-Dec	8.01	7.01	2.08	3.58	18.69	60.64	325,510
	Jan-Mar	6.15	4.80	2.39	4.09	24.60	57.96	334,822
2020	Apr-Jun	3.96	3.19	2.10	4.21	25.35	61.20	313,599
	Jul-Sep	2.45	2.03	1.48	2.91	25.85	65.27	359,219
	Oct-Dec	2.82	2.51	1.58	3.14	26.14	63.80	357,607
	Jan-Mar	3.97	3.42	2.17	4.06	32.38	54.00	358,380
2021	Apr-Jun	4.22	4.11	2.11	3.44	30.41	55.72	366,112
	Jul-Sep	4.92	5.83	1.82	2.67	21.87	62.89	350,765
	Oct-Dec	5.96	7.68	1.63	2.11	16.78	65.85	306,476
	Jan-Mar	7.58	10.69	1.63	1.86	11.14	67.10	240,965
2022	Apr-Jun	9.26	12.32	1.37	0.91	2.49	73.65	218,719
	Jul-Sep	9.35	11.40	0.89	0.35	0.13	77.88	216,036
(Oct-Dec	10.17	9.98	0.87	0.26	0.08	78.64	179,155
2023	Jan-Mar	10.30	9.13	0.85	0.26	0.03	79.43	146,735

Exhibit A-8. Forward Share of Endorsements by Loan type

r								
Endorsement	Quarter	Share of FHA Endorsed Purchase Mortgages						
Fiscal Year	Quartor	<=36	>36 - <43	>=43 - <50	>= 50	Average DTI		
	Oct-Dec	28.80	28.06	28.72	14.42	40.70		
2014	Jan-Mar	28.59	28.53	28.39	14.49	40.72		
2014	Apr-Jun	29.57	28.96	27.48	13.99	40.38		
	Jul-Sep	28.97	28.86	27.61	14.56	40.57		
	Oct-Dec	28.63	28.87	27.53	14.96	40.71		
2015	Jan-Mar	29.22	29.34	26.91	14.53	40.53		
2010	Apr-Jun	31.28	29.05	25.86	13.81	40.09		
	Jul-Sep	29.90	28.35	26.79	14.95	40.50		
	Oct-Dec	28.74	28.31	27.41	15.54	40.75		
2016	Jan-Mar	28.44	27.96	27.25	16.36	40.90		
_0.0	Apr-Jun	29.05	27.97	26.80	16.18	40.75		
	Jul-Sep	28.55	27.50	26.86	17.10	40.96		
	Oct-Dec	27.45	26.80	27.75	18.00	41.26		
2017	Jan-Mar	24.87	25.42	29.16	20.55	42.04		
	Apr-Jun	24.85	25.32	29.17	20.66	42.06		
	Jul-Sep	23.99	24.90	29.20	21.91	42.35		
	Oct-Dec	23.32	24.38	29.26	23.05	42.59		
2018	Jan-Mar	22.12	23.44	29.58	24.87	43.02		
	Apr-Jun	21.21	23.55	29.99	25.25	43.24		
	Jul-Sep	20.30	23.43	30.31	25.95	43.48		
	Oct-Dec	19.47	22.52	30.56	27.45	43.83		
2019	Jan-Mar	19.23	22.67	30.13	27.98	43.90		
	Apr-Jun	20.50	23.60	29.54	26.35	43.46		
	Jul-Sep	21.17	23.98	29.25	25.60	43.25		
	Oct-Dec	21.57	23.79	29.24	25.40	43.17		
2020	Jan-Mar	21.11	23.35	29.33	26.21	43.35		
	Apr-Jun	21.79	24.34	30.48	23.39	42.96		
	Jul-Sep	21.43	24.93	31.46	22.17	42.90		
	Oct-Dec	20.87	24.49	31.76	22.87	43.07		
2021	Jan-Mar	21.04	24.12	31.40	23.44	43.09		
	Apr-Jun	20.54	23.82	31.19	24.45	43.27		
	Jul-Sep	20.20	24.00	31.65	24.15	43.30		
	Oct-Dec	19.48	23.45	31.68	25.38	43.55		
2022	Jan-Mar	18.26	22.23	32.05	27.46	44.03		
	Apr-Jun	16.93	21.73	32.47	28.87	44.42		
	Jul-Sep	15.20	21.29	32.90	30.61	44.89		
2023	Oct-Dec	13.85	20.44	33.56	32.15	45.34		
	Jan-Mar	14.05	21.01	33.55	31.38	45.17		

Exhibit A-9. Debt-to-Income (DTI) Ratio

Exhibit A-10. Down Payment Assistance Program (DPA) Source of Down Payment Assistance (DPA)									
						Non-Government/ Non-Relative			
Endorsement	Quarter	Governr		Relative				No D	
Fiscal Year		Share	SDQ	Share	SDQ	Share	SDQ	Share	SDQ
	Oct-Dec	7.19	9.25	26.24	6.56	0.40	5.74	66.17	5.20
2014	Jan-Mar	8.60	9.11	26.47	6.56	0.51	6.25	64.43	5.17
	Apr-Jun	8.77	8.49	23.96	6.57	0.70	5.35	66.58	5.33
	Jul-Sept	8.90	8.79	25.73	6.75	0.96	7.70	64.41	5.29
	Oct-Dec	9.61	8.82	27.51	7.24	1.13	6.01	61.75	5.41
2015	Jan-Mar	10.34	8.75	27.09	7.30	1.33	5.56	61.23	5.68
	Apr-Jun	9.62	8.66	24.34	7.18	1.60	6.31	64.44	5.66
	Jul-Sept	10.00	7.79	25.57	6.97	1.82	6.16	62.61	5.17
	Oct-Dec	10.94	7.58	27.26	6.72	2.15	5.69	59.65	4.97
2016	Jan-Mar	10.58	7.36	26.62	6.80	2.18	5.41	60.61	4.95
	Apr-Jun	9.86	7.39	25.10	7.02	1.63	6.49	63.42	5.46
	Jul-Sept	9.85	7.40	26.43	7.29	1.58	6.84	62.14 61.03	5.27
0047	Oct-Dec	10.34	7.20	26.86	7.05	1.77	7.05		5.18
2017	Jan-Mar	10.52 10.38	7.21 7.80	26.88 24.76	7.08 7.04	2.01 1.64	6.32 7.32	60.59 63.22	5.08 5.14
	Apr-Jun	10.38	7.85	24.76 26.06	7.04	1.64	7.32 7.44	61.54	5.41
	Jul-Sept	11.77	8.49	26.45	7.30	1.44	7.44	60.52	5.46
	Oct-Dec	11.34	8.64	20.45 26.79	7.53	1.20	7.42	60.67	5.56
2018	Jan-Mar								
	Apr-Jun	10.77	9.02	25.29	7.54	1.25	8.32	62.69	5.79
	Jul-Sept	11.71 12.25	8.90	26.23	7.35	1.24	8.16	60.83	5.43
	Oct-Dec		9.14	26.74	7.05	1.08	8.01	59.94	5.20 4.96
2019	Jan-Mar	13.18 13.05	8.42 8.26	26.27 24.03	6.58 6.73	1.04 1.04	6.78 7.39	59.51 61.88	4.96 5.01
	Apr-Jun	13.16	7.70	24.03 24.92	6.30	0.94	7.39	60.98	4.59
	Jul-Sept	14.47	7.05	24.92	5.96	0.88	5.98	59.50	4.45
2020	Oct-Dec	15.49	6.53	23.15	5.67	0.88	5.65	59.50 59.16	4.43
2020	Jan-Mar	15.96	5.77	24.42	5.12	0.93	5.01	61.23	3.91
	Apr-Jun Jul-Sept	15.77	5.30	22.43	4.95	0.99	4.57	60.81	3.86
	Oct-Dec	16.12	5.15	23.73	5.37	0.88	5.23	59.28	3.97
2021	Jan-Mar	15.39	4.93	23.58	5.47	0.91	5.22	60.12	4.08
2021	Apr-Jun	14.31	5.16	22.01	6.01	1.07	6.44	62.62	4.55
	Jul-Sept	14.50	5.68	23.80	6.43	1.03	6.37	60.67	4.67
	Oct-Dec	15.43	5.52	23.95	6.74	1.14	7.59	59.48	4.69
	Jan-Mar	15.14	4.85	24.84	5.85	1.16	7.23	58.86	4.21
2022	Apr-Jun	12.07	4.06	26.40	5.04	1.09	5.58	60.44	3.55
	Jul-Sept	11.58	2.71	26.55	3.23	1.10	3.51	60.77	2.08
	Oct-Dec	13.33	0.72	25.44	0.96	1.09	1.57	60.14	0.62
2023	Jan-Mar	13.80	0.01	23.71	0.03	1.09	0.08	61.40	0.02

					se Mortgage Pro		-		
	1		Reverse	Mortgage L	oans (HECM) Clai	ims ¹ by Typ	е	1	
Fiscal		Claim	n Type 1	Cla	aim Type 2	Supplemental		Total ²	
Year	()llarter	Number	Total Claims Paid \$	Number	Total Claims Paid \$	Number	Total Claims Paid \$	Number	Total Claims Paid \$
	Oct-Dec	5,366	447,345,205	3,923	986,113,498	8,886	23,146,161	18,175	1,456,604,864
2016	Jan-Mar	5,854	455,189,374	3,874	972,917,814	11,526	24,824,881	21,254	1,452,932,070
2010	Apr-Jun	6,602	515,946,786	4,810	1,196,548,865	12,081	32,022,466	23,493	1,744,518,117
	July-Sep	6,021	467,520,045	5,941	1,450,894,509	18,517	76,463,822	30,479	1,994,878,376
2016 T	otal	23,843	1,886,001,410	18,548	4,606,474,686	51,010	156,457,331	93,401	6,648,933,427
	Oct-Dec	6,144	477,712,116	6,204	1,504,458,822	7,823	29,702,312	20,171	2,011,873,250
0047	Jan-Mar	7,203	581,198,659	5,783	1,401,927,594	6,623	18,908,074	19,609	2,002,034,327
2017	Apr-Jun	6,006	456,986,742	4,640	1,096,454,023	6,348	20,055,437	16,994	1,573,496,202
	July-Sep	4,739	361,379,418	5,653	1,309,239,889	5,811	14,970,627	16,203	1,685,589,934
2017 T		24,092	1,877,276,936	22,280	5,312,080,328	26,605	83,636,449	72,977	7,272,993,713
	Oct-Dec	4,918	364,732,308	6,375	1,466,323,543	5,644	15,300,518	16,937	1,846,356,370
	Jan-Mar	4,702	365,552,817	5,424	1,241,859,664	5,496	18,069,817	15,622	1,625,482,298
2018	Apr-Jun	3,918	299,989,422	7,985	1,864,583,912	4,464	24,670,362	16,367	2,189,243,697
	July-Sep	4,076	312,957,811	8,110	1,866,905,224	3,910	21,055,093	16,096	2,200,918,128
2018 T		17,614	1,343,232,358	27,894	6,439,672,343	19,514	79,095,791	65,022	7,862,000,491
201010	Oct-Dec	3,598	276,743,900	15,734	3,584,137,917	4,389	20,085,976	23,721	3,880,967,793
	Jan-Mar	3,864	298,948,014	10,105	2,339,723,175	4,268	18,247,891	18,237	2,656,919,079
2019	Apr-Jun	4,246	328,961,241	10,529	2,413,434,227	3,555	15,980,017	18,330	2,758,375,485
	July-Sep	4,222	344,916,187	10,605	2,475,623,023	3,681	14,470,082	18,508	2,835,009,291
2019 T		15,930	1,249,569,341	46,973	10,812,918,342	15,893	68,783,965	78,796	12,131,271,647
20101	Oct-Dec	3,674	295,971,269	9,380	2,198,948,676	3,709	12,817,402	16,763	2,507,737,348
	Jan-Mar	3,920	319,079,247	9,130	2,108,615,349	3,625	15,549,381	16,675	2,443,243,977
2020	Apr-Jun	2,799	228,369,975	7,665	1,817,705,062	3,205	11,785,928	13,669	2,057,860,965
	July-Sep	1,986	163,464,606	6,744	1,608,636,339	3,142	11,939,726	11,872	1,784,040,671
2020 T		12,379	1,006,885,098	32,919	7,733,905,427	13,681	52,092,437	58,979	8,792,882,961
2020 1	Oct-Dec	1,551	120,001,165	5,637	1,352,031,861	2,084	7,782,229	9,272	1,479,815,255
2021	Jan-Mar	1,433	104,303,451	4,187	1,014,074,174	1,375	5,973,238	6,995	1,124,350,864
2021	Apr-Jun	1,501	110,839,731	4,743	1,122,296,618	1,437	5,554,638	7,681	1,238,690,987
0004 T	July-Sep	1,140	78,084,893	3,598	888,122,611	1,414	5,400,947	6,152	971,608,451
2021 T		5,625 955	413,229,240	18,165 3,099	4,376,525,265 740,497,719	6,310	24,711,052 4,770,139	30,100 5,228	4,814,465,556 812,739,279
	Oct-Dec Jan-Mar	1,144	67,471,421 81,957,770	2,525	589,585,783	1,174 878	4,104,791	4,547	675,648,344
2022	Apr-Jun	1,381	92,512,978	3,554	854,674,190	677	3,831,818	5,612	951,018,987
	July-Sep	1,574	104,148,615	3,032	741,426,578	960	5,541,210	5,566	851,116,403
2022 T		5,054	346,090,784	12,210	2,926,184,271	3,689	18,247,957	20,953	3,290,523,012
2023	Oct-Dec	1,627	117,415,592	3,678	908,497,929	1,095	6,173,660	6,400	1,032,087,181
2023 T	Jan-Mar	2,054	160,383,700	8,308	2,014,282,960	1,500	11,085,314	11,862	2,185,751,974
2023 I	Uldi	3,681	277,799,292	11,986	2,922,780,889	2,595	17,258,974	18,262	3,217,839,155

 1 Claims comprise of Foreclosure, Deed in Lieu of Foreclosure, and Mortgagor's Short Sale. 2 Details may not sum to total due to rounding.

NOTE: The Claim Type 1 category represents the dollar volume of claims generated when the borrower no longer occupies the home, and the property is sold at a loss, with the mortgage never being assigned to the HUD Secretary D. The Claim Type 2 category represents the dollar volume of claims resulting from the assignment of the mortgage to the HUD Secretary when the mortgage reaches 98 percent of the MCA. Supplemental claims are those claims submitted by lenders for other eligible expenses not included on original claims, such as property preservation expenses.

	Serious
Month Year	Delinquency
	Rate ¹
Feb-12	9.66
Mar-12	9.42
Apr-12	9.37
May-12	9.39
Jun-12	9.44
Jul-12	9.47
Aug-12	9.47
Sep-12	9.58
Oct-12	9.49
Nov-12	9.49
Dec-12	9.59
Jan-13	9.49
Feb-13	9.28
Mar-13	8.87
Apr-13	8.58
May-13	8.27
Jun-13	8.38
Jul-13	8.17
Aug-13	7.98
Sep-13	8.04
Oct-13	8.04
Nov-13	8.02
Dec-13	8.02
Jan-14	7.83
Feb-14	7.71
Mar-14	7.44
Apr-14	7.25
May-14	7.19
Jun-14	7.14
Jul-14	6.98
Aug-14	6.94
Sep-14	6.99
Oct-14	6.94
Nov-14	7.02
Dec-14	7.00
Jan-15	6.96
Feb-15	6.76
Mar-15	6.42
Apr-15	6.28
May-15	6.24
Jun-15	6.12
Jul-15	5.75
Aug-15	5.91
Sep-15	5.86

Exhibit A-12. Serious	Delinquency	y Rates
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Oct-15	5.79
Nov-15	5.82
Dec-15	5.79
Jan-16	5.80
Feb-16	5.55
Mar-16	5.31
Apr-16	5.16
May-16	5.07
Jun-16	5.02
Jul-16	4.96
Aug-16	4.95
Sep-16	4.92
Oct-16	4.91
Nov-16	4.94
Dec-16	4.69
Jan-17	4.97
Feb-17	4.81
Mar-17	4.54
Apr-17	4.47
May-17	4.36
Jun-17	4.28
Jul-17	4.20
Aug-17	4.24
Sep-17	4.32
Oct-17	4.42
Nov-17	4.83
Dec-17	5.19
Jan-18	5.18
Feb-18	5.06
Mar-18	4.66
Apr-18	4.54
May-18	4.35
Jun-18	4.28
Jul-18	4.08
Aug-18	4.11
Sep-18	4.11
Oct-18	4.06
Nov-18	4.06
Dec-18	4.08
Jan-19	4.16
Feb-19	4.10
Mar-19	3.88
Apr-19	3.74
May-19	3.67
Jun-19	3.76
Jul-19	3.78
Jul-19	3.10

-	
Aug-19	3.82
Sep-19	3.88
Oct-19	3.93
Nov-19	4.06
Dec-19	4.35
Jan-20	4.12
Feb-20	4.04
Mar-20	3.97
Apr-20	4.04
May-20	4.91
Jun-20	8.96
Jul-20	10.58
Aug-20	11.35
Sep-20	11.59
Oct-20	11.73
Nov-20	11.90
Dec-20	11.89
Jan-21	11.83
Feb-21	11.37
Mar-21	11.61
Apr-21	11.06
May-21	10.59
Jun-21	10.11
Jul-21	9.66
Aug-21	9.17
Sep-21	8.81
Oct-21	8.35
Nov-21	7.83
Dec-21	7.28
Jan-22	6.81
Feb-22	6.48
Mar-22	6.00
Apr-22	5.23
May-22	5.19
Jun-22	5.00
Jul-22	4.93
Aug-22	4.82
Sep-22	4.77
Oct-22	4.77
Nov-22	4.79
Dec-22	4.91
Jan-23	4.90
Feb-23	4.86
Mar-23	4.53
- Mai 20	1.00

¹ Serious delinquency rates are the sum of 90-day delinquencies, plus in-foreclosures and in-bankruptcies. Due to late reporting by a large servicer, the delinquency rates for February 2021 and February 2022 are likely understated. SOURCE: US Department of HUD/FHA, April 2023.