

### Estimate of Eligible RefiNow™ Population in Outstanding Fannie Mae MBS\*

#### **MBS Issuance Vintage**

	<= 2013	2014	2015	2016	2017	2018	2019	2020	2021	Total
UPB Outstanding (\$B)	557.9	75.8	132.5	219.7	197.3	167.8	272.3	1,134.5	400.3	3,158.1
Est. Eligible UPB Outstanding (excl AMI criteria, \$B)	145.9	38.8	72.6	106.8	108.9	101.8	172.7	141.3	0.4	889.2
Est. Eligible UPB Outstanding (incl AMI criteria, \$B)	29.3	8.5	14.5	20.7	25.5	28.7	42.8	31.1	0.1	201.3
Est. Eligible UPB % of Outstanding	5%	11%	11%	9%	13%	17%	16%	3%	0%	6%
Est. Eligible UPB Outstanding (\$B)										
2.75% refi mortgage rate	33.4	8.8	15.0	23.2	26.8	29.0	45.1	46.5	0.1	227.9
3.00% refi mortgage rate	29.3	8.5	14.5	20.7	25.5	28.7	42.8	31.1	0.1	201.3
3.25% refi mortgage rate	21.1	8.2	13.2	14.5	23.6	28.2	37.2	18.0	0.1	164.1
Est. Eligible Loans (MM)										
2.75% refi mortgage rate	0.3	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.0	1.7
3.00% refi mortgage rate	0.3	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.0	1.5
3.25% refi mortgage rate	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.0	1.3
Loans Outstanding (million)	5.0	0.6	0.9	1.3	1.2	0.9	1.3	4.3	1.4	16.8
Est. Eligible Loans % of Outstanding	6%	15%	15%	13%	18%	23%	22%	4%	0%	9%

\*In FHFA's press release, FHFA stated that 2 million low-income borrowers did not take advantage of the record low mortgage rates by refinancing. This analysis attempts to estimate the size of the potentially eligible loan population, based on various note rates and other assumptions. These assumptions result in a range of outcomes that do not readily align with the 2 million number. Data provided in this analysis is an estimate of loans currently in Fannie Mae MBS pools as of March 31, 2021 that may be potentially eligible for RefiNow based on various assumptions, including the following:

- UPB shown is Investor Balance, not financial statement book data.
- Includes all Fannie Mae pool prefixes. AMI estimates based on FHFA AMI levels at time of acquisition.
- Eligibility will also depend on (among other factors) the borrower(s) current status, including current income which is not publicly available or available to Fannie Mae. For the purposes of this estimate, Fannie Mae based its analysis on income that was used to qualify for the mortgage when it was originated; current income may be materially different from that historic number and therefore, would have a direct impact on potential eligibility.
- Unless stated otherwise, calculations assume that borrowers refinance into a 3.00% 30-year fixed-rate product. Mortgage insurance is not factored into payment reduction calculations.
- Seasoning requirements are applied as of June 1, 2021.



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### **MBS Issuance Vintage**

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Est. Eligible % of Outstanding UPB (3.00% refi mortgage rate)	<= 2013	2014	2015	2016	2017	2018	2019	2020	2021	Total
Max UPB <= 85K	12%	28%	30%	25%	33%	43%	37%	6%	0%	21%
Max UPB <= 110K	13%	26%	29%	29%	34%	41%	40%	7%	0%	21%
Max UPB <= 125K	13%	22%	27%	25%	31%	38%	38%	7%	0%	19%
Max UPB <= 150K	12%	21%	24%	25%	29%	35%	37%	8%	0%	18%
Max UPB <= 175K	12%	17%	19%	19%	24%	31%	32%	8%	0%	15%
Max UPB <= 200K	6%	23%	18%	16%	21%	26%	28%	6%	0%	12%
Max UPB <= 225K	6%	44%	39%	35%	34%	28%	27%	6%	0%	9%
Max UPB <= 250K	6%	35%	37%	34%	36%	49%	48%	5%	0%	10%
100% FL	1%	2%	3%	17%	16%	26%	4%	1%	0%	1%
100% NY	3%	4%	4%	5%	7%	10%	9%	2%	0%	4%
100% TX	1%	1%	2%	10%	38%	51%	22%	1%	0%	1%
Min LTV >= 95	1%	1%	4%	6%	9%	12%	12%	3%	0%	4%
100% Investor	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Max FICO < 700	6%	5%	5%	5%	7%	8%	9%	1%	0%	3%
Non-spec	4%	7%	7%	6%	7%	10%	9%	2%	0%	4%
Total	5%	11%	11%	9%	13%	17%	16%	3%	0%	6%

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## **Estimate of Eligible RefiNow Population in Outstanding Fannie Mae MBS\***

#### **MBS Issuance Vintage**

	Est. Eligible % of Outstanding UPB (3.00% refi mortgage rate)	<= 2013	2014	2015	2016	2017	2018	2019	2020	2021	Total
	2	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	2.5	0%	0%	0%	1%	1%	4%	5%	1%	0%	1%
<del>Q</del>	3	5%	4%	7%	7%	6%	9%	12%	3%	0%	5%
(rounded)	3.5	9%	11%	13%	14%	15%	15%	18%	11%	0%	12%
no O	4	6%	14%	14%	14%	17%	17%	20%	13%	1%	14%
	4.5	4%	13%	12%	10%	13%	21%	20%	10%	2%	13%
od	5	1%	11%	12%	4%	7%	16%	17%	7%	1%	8%
conpon	5.5	0%	18%	4%	0%	0%	12%	11%	5%	2%	3%
MBS	6	0%	0%	1%	0%	0%	8%	11%	1%	47%	1%
Σ	6.5	0%	0%	0%	0%	0%	0%	15%	2%	N/A	0%
	Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Total	5%	11%	11%	9%	13%	17%	16%	3%	0%	6%

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- UPB shown is Investor Balance, not financial statement book data.
- Includes all Fannie Mae pool prefixes. AMI estimates based on FHFA AMI levels at time of acquisition.
- Eligibility will also depend on (among other factors) the borrower(s) current status, including current income which is not publicly available or available to Fannie Mae. For the purposes of this estimate, Fannie Mae based its analysis on income that was used to qualify for the mortgage when it was originated; current income may be materially different from that historic number and therefore, would have a direct impact on potential eligibility.
- Unless stated otherwise, calculations assume that borrowers refinance into a 3.00% 30-year fixed-rate product. Mortgage insurance is not factored into payment reduction calculations.
- Seasoning requirements are applied as of June 1, 2021.



## Estimate of Eligible RefiNow™ Population in Outstanding Fannie Mae Connecticut Avenue Securities® (CAS)\*\*

CAS Vintage	CAS Deal Type	UPB Outstanding (\$B)	Est. Eligible UPB (\$B)	Est. Eligible by UPB	Total Loans (MM)	Est. Eligible Loans (MM)	Est. Eligible by Loan Count
2013	Group 1	7.4	0.9	12%	0.0	0.0	18%
2014	Group 1	54.5	5.3	10%	0.3	0.0	15%
	Group 2	13.9	1.7	12%	0.1	0.0	19%
2015	Group 1	25.9	3.8	15%	0.2	0.0	21%
	Group 2	14.2	2.4	17%	0.1	0.0	25%
2016	Group 1	45.3	5.5	12%	0.2	0.0	18%
	Group 2	29.5	4.2	14%	0.2	0.0	21%
2017	Group 1	69.0	7.2	10%	0.3	0.1	16%
	Group 2	41.4	5.3	13%	0.2	0.0	19%
2018	Group 1	56.7	8.3	15%	0.3	0.1	21%
	Group 2	26.1	4.9	19%	0.1	0.0	26%
2019	Group 1	34.1	5.8	17%	0.2	0.0	23%
	Group 2	33.7	7.3	21%	0.2	0.0	30%
2020	Group 1	13.4	2.0	15%	0.1	0.0	21%
	Group 2	16.8	3.4	20%	0.1	0.0	28%
<b>Grand Total</b>	•	482.1	67.9	14%	2.5	0.5	20%

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- UPB shown is Investor Balance, not financial statement book data.
- Includes all CAS deals with the exception of CAS 2019-HRP1. AMI estimates based on FHFA AMI levels at time of acquisition.
- Eligibility will also depend on (among other factors) the borrower(s) current status, including current income which is not publicly available or available to Fannie Mae. For the purposes of this estimate, Fannie Mae based its analysis on income that was used to qualify for the mortgage when it was originated; current income may be materially different from that historic number and therefore, would have a direct impact on potential eligibility.
- Unless stated otherwise, calculations assume that borrowers refinance into a 3.00% 30-year fixed-rate product. Mortgage insurance is not factored into payment reduction calculations.
- Seasoning requirements are applied as of June 1, 2021.



# Estimate of Eligible RefiNow™ Population in Outstanding Fannie Mae Credit Insurance Risk Transfer™ Transactions (CIRT™)\*\*

CIRT Vintage	CIRT Deal Type	UPB Outstanding (\$B)	Est. Eligible UPB (\$B)	Est. Eligible by UPB	Total Loans (MM)	Est. Eligible Loans (MM)	Est. Eligible by Loan Count
2014	Low LTV	1.2	0.2	16%	0.0	0.0	23%
2015	Low LTV	4.9	0.7	14%	0.0	0.0	21%
	High LTV	2.7	0.4	16%	0.0	0.0	24%
	ARM	1.1	0.1	6%	0.0	0.0	8%
2016	Low LTV	12.3	1.5	12%	0.1	0.0	18%
	High LTV	6.5	1.0	15%	0.0	0.0	22%
	High LTV FE	1.5	0.2	13%	0.0	0.0	19%
	15yr	4.0	0.2	5%	0.0	0.0	9%
2017	Low LTV	18.3	1.9	10%	0.1	0.0	15%
	Low LTV FE	6.1	0.8	14%	0.0	0.0	20%
	High LTV	8.0	1.1	13%	0.0	0.0	20%
	High LTV FE	2.0	0.4	18%	0.0	0.0	25%
	15yr	7.0	0.3	5%	0.0	0.0	8%
2018	Low LTV	16.3	2.4	14%	0.1	0.0	21%
	Low LTV FE	3.9	0.6	16%	0.0	0.0	22%
	High LTV	8.0	1.5	19%	0.0	0.0	26%
	High LTV FE	2.9	0.6	21%	0.0	0.0	29%
	15yr	5.5	0.5	9%	0.0	0.0	14%
2019	Low LTV	9.4	1.6	17%	0.0	0.0	23%
	Low LTV FE	4.4	0.6	13%	0.0	0.0	19%
	High LTV	11.4	2.5	22%	0.1	0.0	30%
	High LTV FE	3.8	0.7	18%	0.0	0.0	24%
	15yr	8.1	0.8	10%	0.1	0.0	16%
	Lender Recourse	0.7	0.4	57%	0.0	0.0	64%
2020	Low LTV	9.5	1.4	14%	0.0	0.0	20%
	Low LTV FE	17.4	1.2	7%	0.1	0.0	10%
	High LTV	7.4	1.5	20%	0.0	0.0	27%
	High LTV FE	13.2	1.1	9%	0.0	0.0	12%
<b>Grand Total</b>		197.7	25.8	13%	1.0	0.2	19%



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- Includes all CIRT transactions. AMI estimates based on FHFA AMI levels at time of acquisition.
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