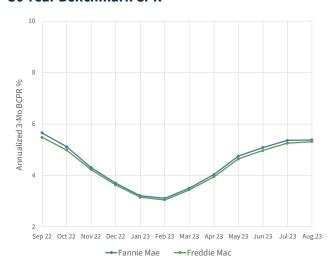


Benchmark CPR® Bulletin – Sep 2023

Monthly Benchmark CPR Results

30 Year Benchmark CPR*



15 Year Benchmark CPR*



Table 1a. Components of Fannie Mae's 30 Year Jul and Aug BCPR Results

30 Yr FNM Cohort		BCPR3 Components								
Reporting Period	BCPR3	May	Jun	Jul	Aug					
Jul 2023	5.4	5.4	5.6	5.1						
Aug 2023	5.4		5.6	5.1	5.5					

Table 1b. Components of Fannie Mae's 15 Year Jul and Aug BCPR Results

15 Yr FNM Cohort		BCPR3 Components								
Reporting Period	BCPR3	May	Jun	Jul	Aug					
Jul 2023	5.6	5.4	5.9	5.3						
Aug 2023	5.7		5.9	5.3	5.7					

Table 2. Top 5 Fastest Sellers/Servicers: Fannie Mae**

Seller Name	Orig OPB (\$MM)	Aug BCPR	JULBUPK	Servicer Name	Orig OPB (\$MM)	Aug BCPR	JULBUPK
REGIONS BANK	2,801	142%	140%	CITIZENS FIRST BANK	1,123	214%	226%
MUTUAL OF OMAHA MORTGAGE, INC	2,059	125%	119%	ROCKET MORTGAGE, LLC	119,734	142%	139%
CANOPY MORTGAGE, LLC	1,508	124%	112%	ALCOVA MORTGAGE, LLC	1,047	136%	132%
ROCKET MORTGAGE, LLC	119,693	123%	121%	BOKF, NA	1,730	135%	124%
FIRSTBANK	2,181	123%	107%	FIRSTBANK	1,674	130%	106%

Table 3. Top 5 Fastest Sellers/Servicers: Freddie Mac**

Seller Name	Orig UPB (\$MM) Aug BCPR		Jul BCPR	Servicer Name	Orig UPB (\$MM)	Aug BCPR	Jul BCPR
AMERICAN FINANCING CORPORATION	1,028	179%	152%	MUTUAL OF OMAHA MORTGAGE, INC	1,745	146%	144%
FBC MORTGAGE LLC	1,487	140%	143%	ROCKET MORTGAGE, LLC	72,402	146%	142%
RUSHMORE LOAN MANAGEMENT SERVICE	1,006	140%	115%	SPECIALIZED LOAN SERVICING, LLC	6,441	146%	138%
REGIONS BANK	1,375	134%	125%	FBC MORTGAGE LLC	1,466	134%	128%
MUTUAL OF OMAHA MORTGAGE, INC	1,763	131%	132%	AMERICAN INTERNET MORTGAGE, INC	667	134%	128%

Report(s) include entire population for the last 24-months of issuance, all coupons, 30-year or 15-year fixed rate, top 100 Servicers by Current UPB. Rolling 24-month lookback for which a 3-month CPR is available.

 $^{^{\}star\star} \, \text{Population includes top 100 sellers/servicers by UPB and reflects Note Rate Adjusted BCPR3 values}.$



Historical Benchmark CPR Data

Table 4. Summary of Fannie Mae 30 Year Historical BCPR Data - Seller view

Metric	Aug-2023	Jul-2023	Jun-2023	Aug-2022
Cohort BCPR1	5.6	5.1	5.6	5.7
Cohort BCPR3	5.4	5.4	5.1	6.3
Cohort BCPR6	4.9	4.5	4.1	8.0
WA BCPR3 of Top 25 Sellers*	5.4	5.4	5.1	6.3
WA NR-Adjusted % of Cohort for Top 25 Sellers*	101.1	101.7	101.9	101.1
BCPR3 Range (Max-Min) for Top 100 Sellers*	4.4	4.8	5.6	3.6
Total Current UPB (\$B)	1,024	1,066	1,126	1,726
% of Cohort UPB w/ NR-Adjusted BCPR3 0-90% of Cohort	16%	17%	30%	29%
% of Cohort UPB w/ NR-Adjusted BCPR3 90-110% of Cohort	61%	62%	48%	50%
% of Cohort UPB w/ NR-Adjusted BCPR3 110-130% of Cohort	20%	18%	19%	19%
% of Cohort UPB w/ NR-Adjusted BCPR3 >130% of Cohort	3%	3%	2%	2%

Table 5. Summary of Freddie Mac 30 Year Historical BCPR Data - Seller view

Metric	Aug-2023	Jul-2023	Jun-2023	Aug-2022
Cohort BCPR1	5.6	5.0	5.6	5.5
Cohort BCPR3	5.3	5.2	5.0	6.2
Cohort BCPR6	4.8	4.4	4.0	7.7
WA BCPR3 of Top 25 Sellers*	5.3	5.2	5.0	6.2
WA NR-Adjusted % of Cohort for Top 25 Sellers*	100.1	99.8	99.7	99.8
BCPR3 Range (Max-Min) for Top 100 Sellers*	6.8	5.3	4.3	4.6
Total Current UPB (\$B)	968	1,002	1,037	1,544
% of Cohort UPB w/ NR-Adjusted BCPR3 0-90% of Cohort	22%	18%	21%	21%
% of Cohort UPB w/ NR-Adjusted BCPR3 90-110% of Cohort	59%	67%	61%	61%
% of Cohort UPB w/ NR-Adjusted BCPR3 110-130% of Cohort	15%	12%	15%	8%
% of Cohort UPB w/ NR-Adjusted BCPR3 >130% of Cohort	3%	3%	2%	10%



Table 6. Summary of Fannie Mae 30 Year Historical BCPR Data - Servicer view

Metric	Aug-2023	Jul-2023	Jun-2023	Aug-2022
Cohort BCPR1	5.6	5.1	5.6	5.7
Cohort BCPR3	5.4	5.4	5.1	6.3
Cohort BCPR6	4.9	4.5	4.1	8.0
WA BCPR3 of Top 25 Servicers*	5.4	5.4	5.1	6.4
WA NR-Adjusted % of Cohort for Top 25 Servicers*	101.2	101.0	101.4	100.4
BCPR3 Range (Max-Min) for Top 100 Servicers*	9.2	10.9	11.5	4.2
Total Current UPB (\$B)	1,024	1,066	1,126	1,726
% of Cohort UPB w/ NR-Adjusted BCPR3 0-90% of Cohort	28%	29%	28%	25%
% of Cohort UPB w/ NR-Adjusted BCPR3 90-110% of Cohort	58%	57%	57%	55%
% of Cohort UPB w/ NR-Adjusted BCPR3 110-130% of Cohort	6%	6%	7%	11%
% of Cohort UPB w/ NR-Adjusted BCPR3 >130% of Cohort	8%	8%	8%	9%

Table 7. Summary of Freddie Mac 30 Year Historical BCPR Data - Servicer view

Metric	Aug-2023	Jul-2023	Jun-2023	Aug-2022
Cohort BCPR1	5.6	5.0	5.6	5.5
Cohort BCPR3	5.3	5.2	5.0	6.2
Cohort BCPR6	4.8	4.4	4.0	7.7
WA BCPR3 of Top 25 Servicers*	5.3	5.2	5.0	6.2
WA NR-Adjusted % of Cohort for Top 25 Servicers*	100.0	99.8	99.9	100.2
BCPR3 Range (Max-Min) for Top 100 Servicers*	5.9	5.6	5.6	5.4
Total Current UPB (\$B)	968	1,002	1,037	1,544
% of Cohort UPB w/ NR-Adjusted BCPR3 0-90% of Cohort	22%	14%	19%	14%
% of Cohort UPB w/ NR-Adjusted BCPR3 90-110% of Cohort	65%	74%	69%	71%
% of Cohort UPB w/ NR-Adjusted BCPR3 110-130% of Cohort	6%	4%	6%	8%
% of Cohort UPB w/ NR-Adjusted BCPR3 >130% of Cohort	7%	7%	7%	7%



BCPR Component Profiles

Table 8. Fannie Mae 30-Year BCPR Component Collateral Profiles

	Orig amt	Beg bal	Beg loan			WA							%	%	%		
	(\$MM)	(\$MM)	count	WAOLS	WA WAC	WALA	WA FICO	WA LTV	WA DTI	% CA	% TPO	% AW	Owner	Investor	Purchase	SMM	CPR
Fannie Mae BCPR																	
a. May component	1,252,338	1,207,057	4,102,230	305,282	3.85	16	749	75	36	18%	39%	25%	92%	5%	56%	0.5	5.4
b. Jun component	1,177,602	1,135,236	3,843,569	306,382	3.97	16	748	75	37	18%	39%	24%	92%	5%	58%	0.5	5.6
c. Jul component	1,114,016	1,074,142	3,622,193	307,553	4.10	16	748	76	37	18%	39%	23%	92%	5%	60%	0.4	5.1
d. Aug component	1,070,459	1,032,269	3,459,752	309,403	4.23	16	748	76	37	17%	39%	23%	92%	5%	62%	0.5	5.5
e. MoM profile change	-43,557	-41,873	-162,441	1,851	0.13	0	0	0	0	0%	0%	-1%	0%	0%	1%	8.1%	7.9%
f. Aug pay-offs	4,497	4,223	15,816	284,505	4.38	16	740	74	37	14%	35%	23%	89%	7%	55%	100.0	100.0
g. Jul pay-offs	4,368	4,107	15,341	284,791	4.24	16	741	75	37	13%	36%	23%	90%	6%	55%	100.0	100.0
h. Jun-23 issuances	31,585	31,318	96,782	326,351	6.32	2	756	78	38	13%	43%	13%	93%	5%	87%	0.7	7.9
i. Jun-22 issuances	71,085	67,256	245,001	290,141	3.15	25	751	75	35	20%	40%	27%	94%	3%	50%	0.5	5.4
Fannie Mae universe																	
j. Aug universe	10,398,363	2,842,001	12,359,350	341,152	3.85	42	752	75	N/A	N/A	39%	23%	90%	6%	50%	0.5	6.0
k. Diff vs. Aug component	9,327,905	1,809,732	8,899,598	31,748	-0.38	26	4	-1	N/A	N/A	0%	0%	-1%	1%	-12%	0.0	0.5

Records a-d: Collateral profiles of BCPR components as of the start of each month. Records b-d comprise the most recent BCPR3, while records a-c comprise the prior BCPR3. Records f-g: Profile of loans that paid off in each respective month.

Records $h \to Profile$ of loans issued in the most recent month added to the BCPR3 population and loans issued in the month that rolled off (aged out) of the BCPR3 population. Record i: Overall Fannie Mae 30-year TBA-eligible universe.

BCPR Heatmap

Table 9. MoM Percentage Changes of Various Spec & Loan Cuts on the BCPR1 Heatmap

Population	Orig Amount (\$ MM)	t Current UPB (\$ MM)	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23
85k	\$6,163	\$5,544	-3%	-7%	-14%	-4%	-12%	10%	29%	-4%	15%	1%	-4%	4%
110k	\$11,935	\$10,766	-16%	-5%	-16%	-1%	-8%	7%	26%	-3%	16%	5%	-9%	9%
125k	\$10,862	\$9,841	-8%	-9%	-14%	-9%	-12%	12%	30%	6%	7%	1%	-7%	9%
150k	\$25,580	\$23,212	-12%	-14%	-13%	-4%	-16%	17%	25%	0%	20%	4%	-10%	10%
175k	\$32,238	\$29,366	-12%	-11%	-19%	-8%	-10%	11%	38%	-8%	16%	5%	-11%	15%
200k	\$42,866	\$39,118	-10%	-20%	-14%	-2%	-16%	13%	42%	-12%	27%	3%	-11%	12%
225k	\$47,018	\$43,046	-12%	-17%	-15%	-8%	-16%	20%	42%	-10%	27%	0%	-8%	10%
NY	\$28,307	\$26,780	-14%	-23%	-2%	-1%	-13%	-2%	25%	-19%	33%	12%	-11%	24%
TX	\$76,811	\$71,114	-14%	-21%	-15%	-7%	-11%	35%	24%	-5%	29%	-3%	-5%	4%
FL	\$64,742	\$59,350	-11%	-12%	-16%	0%	-13%	23%	41%	-5%	24%	1%	-11%	10%
LTV>=95	\$134,660	\$126,683	-14%	-21%	-14%	-9%	-15%	26%	39%	2%	16%	4%	-11%	6%
Investor***	\$32,340	\$29,545	-4%	-25%	-14%	-3%	-12%	27%	37%	0%	25%	-3%	-7%	11%
FICO<700	\$77,885	\$70,921	-10%	-19%	-19%	-5%	-15%	27%	34%	-7%	36%	-2%	-5%	10%
Non-Spec	\$445,511	\$409,139	-13%	-16%	-18%	-4%	-17%	16%	46%	-7%	26%	5%	-11%	10%
Retail	\$635,248	\$582,051	-12%	-16%	-15%	-5%	-16%	19%	39%	-5%	22%	2%	-8%	11%
Correspondent	\$246,690	\$228,295	-12%	-18%	-15%	-5%	-15%	21%	38%	-5%	26%	6%	-12%	6%
Broker	\$155,394	\$144,470	-12%	-18%	-22%	1%	-13%	16%	42%	-10%	36%	0%	-11%	10%
Purchase	\$665,278	\$619,413	-11%	-16%	-13%	-5%	-11%	20%	38%	-5%	22%	1%	-9%	8%
Refi	\$145,613	\$131,348	-13%	-18%	-20%	-3%	-22%	12%	45%	- 9 %	28%	4%	-12%	11%
Cash-out	\$226,441	\$204,054	-12%	-18%	-16%	-5%	-16%	22%	36%	-5%	30%	6%	-10%	12%
Principal	\$944,538	\$870,911	-12%	-17%	-17%	-5%	-15%	19%	39%	-6%	25%	4%	-10%	9%
Second Home	\$31,922	\$28,250	-10%	-16%	-16%	2%	-15%	14%	49%	-17%	32%	-6%	0%	9%
Investment***	\$60,873	\$55,655	-8%	-22%	-11%	-4%	-11%	22%	33%	2%	23%	-5%	-7%	13%
Standard Appraisal	\$812,521	\$751,710	-12%	-17%	-16%	-5%	-15%	19%	39%	-5%	23%	3%	-9%	9%
Appraisal Waiver	\$224,812	\$203,106	-13%	-15%	-18%	-3%	-15%	18%	39%	-8%	32%	1%	-11%	12%

^{***} Note that the Investor cut is listed twice. The first instance is the Investor story as part of a specified pooling waterfall. The second instance is a pure isolation of all investor loans in relation to principal residence and second homes. Note the UPB differences between the two, as several investor loans are pooled in other stories.



Additional Resources

For questions, contact the Fannie Mae Investor Help Line at 1-800-232-6643, Option 3 or by e-mail.

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Benchmark CPR Video Tutorial

MBS Cohort Analyzer Dashboard

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