## Small Balance Loan Prepayments

## As of June 2023

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- This report presents a summary of Freddie Mac Multifamily Small Balance Loan (SBL or SB) voluntary prepayment activity over the past 12 months ending June 2023 (July 2022 through June 2023).
- We summarize prepayment speeds in aggregate and by product type, vintage, prepayment type, prepayment phase and FRESB deal.
- The 12-month average constant prepayment rate (CPR) is 9.9\% as of June 2023 - down 650 bps from the December 2022 CPR of $16.4 \%$.
- Based on historical performance to date, we find that prepayment speeds increase with loan seasoning and declining prepayment premiums all else equal. As loans season and a growing population of loans move into periods with lower prepayment premiums, we expect prepayment activity to pick up. However, higher interest rates are slowing prepayment activity and may continue to do so going forward.
- The focus of this report is on voluntary prepayments. There have been very few defaults in the SBL program - only $\$ 43.3$ million (11 basis points) losses in aggregate on a total securitized balance of $\$ 40.1$ billion in the program's history from October 2014 through June 2023.
- See our SB-Deal ${ }^{\circledR}$ Investor Presentation for background information on the program's history, mortgage products, the Freddie Mac Optigo ${ }^{\circledR}$ network and FRESB bond structure.

Freddie Mac Multifamily formally added the SBL line of business to its lending platform in October 2014. This program targets loans between $\$ 1$ million and $\$ 7.5$ million and offers prepayment flexibility to borrowers.

Through June $2023^{1}$, Freddie Mac has funded and securitized nearly 15,000 SB loans totaling over $\$ 40$ billion of original unpaid principal balance (UPB), of which approximately $\$ 13.7$ billion have prepaid.

## Prepayment Options Background

SB loan products include both hybrid ARMs and fixed-rate products across multiple loan terms, all with an array of prepayment options. SB loans generally offer more prepayment flexibility than our conventional loans, where the standard K-Deal ${ }^{\circledR}$ fixed-rate loan has a lockout period followed by defeasance or yield maintenance.

Exhibit 1 shows the mix of SBL products and available prepayment types, along with the percentage of total origination volume across product types and prepayment options since the inception of the SBL program in 2014. The 5 -year hybrid and 10-year fixed-rate products make up $65 \%$ of our business. The most popular prepayment option is yield maintenance, particularly for 10-year fixedrate loans. These loans make up $47 \%$ of total business. The second most popular prepayment option starts with a $5 \%$ prepayment premium and then steps down, or declines, over the term of the loan Option 1.

Exhibit 1: Loan Products \& Available Prepayment Options
The Freddie Mac
SBL program
offers borrowers
prepayment
options along
with a number of
different
products.

|  | Hybrids |  |  | Fixed-Rate |  |  | Total \% Business |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Option | 5H | 7H | 10H | 5F | 7F | 10F |  |
| 1 | 54321, 1\% | 5544321, 1\% | $\begin{gathered} 5544332211, \\ 1 \% \end{gathered}$ | 54321 | 5544321 | 5544332211 | 41\% |
| 2 | 321(3), 1\% | $\begin{gathered} 3(2) 2(2) 1(3), \\ 1 \% \end{gathered}$ | $\begin{gathered} 3(3) 2(3) 1(4), \\ 1 \% \end{gathered}$ | 321(3) | 3(2)2(2)1(3) | 3(3)2(3)1(4) | 7\% |
| 3 | $\left\lvert\, \begin{gathered} (\mathrm{YM} \text { or } 1 \%)+ \\ 1 \%, 1 \% \end{gathered}\right.$ | $\begin{gathered} (\mathrm{YM} \text { or } 1 \%)+ \\ 1 \%, 1 \% \end{gathered}$ | $\begin{gathered} (\mathrm{YM} \text { or } 1 \%)+ \\ 1 \%, 1 \% \end{gathered}$ | YM or 1\% | YM or 1\% | YM or 1\% | 47\% |
| 4 | 310(3), 0\% | N/A | N/A | 310(3) | N/A | N/A | 5\% |
| Total \% Business | 33\% | 8\% | 14\% | 6\% | 8\% | 32\% | 100\% |

Source: Freddie Mac. We frequently use shorthand above to define the products; for example, we refer to the 5-year Hybrid as " 5 H " and the 10 -year Fixed Balloon as "10F." Option 3 refers to Yield Maintenance (YM) but includes legacy YM or $1 \%,+1 \%$, $1 \%$ loans. See the SBL Product page for more details. May not sum to $100 \%$ due to rounding.

[^0]The share of borrowers choosing yield maintenance remains high, especially in our 7- and 10-year products, as shown below in Exhibit 2. We see a dip in the share electing yield maintenance in 2020 and 2021, but a rebound in 2022 especially among the long-term vintages.

Exhibit 2: Percentage of Active Loans with Yield Maintenance by Vintage and Product Type


## Source: Freddie Mac

Several factors drive prepayment behavior, including an incentive to prepay when interest rates fall or when property values rise. However, the existence of a prepayment premium can mitigate both of those factors. Currently, most of our outstanding loans are still subject to prepayment premiums, primarily in the form of either yield maintenance or a fixed percentage prepayment premium, as shown in Exhibit 3.

Exhibit 3: Outstanding Loan Balance by Prepayment Phase


Source: Freddie Mac

## Prepayment Speeds by Loan Characteristics

For the 12 months ending in June 2023, 1,030 loans prepaid which decreased $41 \%$ in comparison with the prior report, representing the 12 months ending December 2022. ${ }^{2}$ The total number of loans that have prepaid since the program's inception is about 5,200 . Exhibit 4 is a summary of the payoffs across different prepayment options (shown in Exhibit 1), prepayment phase, vintage and product type during the 12-month period ending in June 2023. ${ }^{3}$ While the number of paid off loans with the most flexible prepayment terms (1\% or open) decreased 33\% from December 2022 through June 2023.

Exhibit 4: Payoff Summary by Loan Count in the Past 12 Months

Loan prepayments decreased in first half of 2023.

| Prepayment Option | 1 | 2 | 3 | 4 |  |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 469 | 44 | 471 | 46 |  |  | 1,030 |  |
| Prepayment Phase | YM | $5 \%$ | $4 \%$ | $3 \%$ | $2 \%$ | $1 \%$ | Open |  |
|  | 351 | 23 | 71 | 73 | 91 | 359 | 62 | 1,030 |
| Vintage | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |  |
|  | 3 | 37 | 109 | 283 | 281 | 156 | 101 | 1,030 |
| Product | 5 H | 7 H | 10 H | 5 F | 7 F | 10 F |  |  |
|  | 475 | 53 | 94 | 54 | 68 | 286 |  | 1,030 |

${ }^{2}$ The report with data for the 12 months ending in December 2022 was released in June 2023.
${ }^{3}$ For additional details on prepays since inception of the SBL line of business, please see the May 2019, the November 2019, November 2020, October 2021, May 2022, November 2022, and June 2023 SBL Prepay Reports. For additional details around FRESB loan payoffs, please reference our SB-Deal Performance Presentation.

Source: Freddie Mac

The 12-month average CPR is $9.9 \%$ as of June 2023, down sharply from $16.4 \%$ in the December 2022 report. Interest rates were relatively low to start 2022 but increased quickly, while property values grew for part of year before flattening and then declining toward the end of year. Both trends have continued into the first half of 2023, which has continued to slow prepayment speeds. In Exhibit 5 , we see a significant slowdown in CPRs starting in October of 2022 and through June of 2023 given higher interest rates and lower property prices.

Exhibit 5: Annualized and 12-Month Average CPR


Source: Freddie Mac
In the following exhibits, we present prepayment speed across various characteristics over the 12 months ending June 2023. We have continued to observe the vast majority of prepayments utilizing Options 3 and 1, at 471 and 469 loans respectively of the 1,030 loans that have prepaid. As shown in Exhibit 6, Options 2, 4 and 1 have experienced the highest prepayment rates of 10\%, 12\% and almost $14 \%$ respectively, while Option 3 is lower at about $8 \%$. This is a similar pattern to what we saw in the last report, with elevated prepayment rates for Options 1, 2 and 4 and a lower rate for Option 3. However, in the December 2022 report Options 1, 2, and 4 were all at similar 12-month CPR levels. The reason Option 3 has the lowest prepayment rate is due to the greater prepayment flexibility Options 1, 2 and 4 provide compared with yield maintenance in Option 3, although prepayment rates are down across all option types.

Loans with option 1 had the highest CPR, while loans with option 3 saw the most prepays over the past 12 months.

As loans season, the CPR generally increases.

Exhibit 6: CPR by Prepayment Option in the Past 12 Months


Source: Freddie Mac
The largest number of loans that have prepaid come from the 2017 and 2018 vintages, as loans in those years have had time to season, shown in Exhibit 7. The highest 12-month average CPRs come from 2016 and 2017 vintages, which have already experienced many loans pay off and have a lower remaining origination volumes. Therefore, we do not experience high payoff activity by loan count but see elevated CPR rates in those years. Generally, the less seasoned a loan, the slower the CPR, with originations from 2021 down to $3 \%$.

Exhibit 7: CPR by Origination Vintage and Payoff Loan Counts in the Past 12 Months


[^1]Exhibit 8 below shows that CPRs are fastest for the 5 -year hybrid loans with speeds of $16 \%$. By loan count, the greatest number of prepaid loans are among the 5-year hybrid and 10-year fixed-rate products, with 475 and 286 prepays, respectively, as they are the most common loan types chosen by borrowers.

Exhibit 8: CPR by Product Type and Payoff Loan Counts in the Past 12 Months


Source: Freddie Mac

Among the 5-year hybrid loans that were originated prior to May 2018, a total of 2,381 loans converted to floating-rate by the June 2023 data cut-off of this report, as shown in Exhibit 8. Once converted, the standard prepayment premium is $1 \%$ (unless refinanced with Freddie Mac, in which case the prepayment is contractually not due ${ }^{4}$ ). Of those 2,381 loans, 1,224 either paid off or were refinanced prior to converting, while the remaining 1,157 converted, for an overall conversion rate of $49 \%$. Of those loans that converted, $38 \%$, or 439 loans paid off after they flipped.

Exhibit 9: Analysis of 5-Year Hybrid Loan Conversion Rates

| Origination <br> Month | Originated <br> 5H Loans | Loans Paid <br> Off/ <br> Refinanced | Loans <br> Converted | First <br> Interest <br> Adjustment <br> Date | Conversion <br> Rate | Floating Loans <br> as of June 2023 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Oct 2014 | 1 | 1 | 0 | -- | -- | - -- |
| Nov 2014 | 1 | 1 | 0 | -- | -- | -- |
| Dec 2014 | 6 | 1 | 5 | Jan 2020 | $63 \%$ | 3 |
| Jan 2015 | 5 | 5 | 0 | Feb 2020 | $38 \%$ | -- |
| Feb 2015 | 9 | 6 | 3 | Mar 2020 | $36 \%$ | 0 |
| Mar 2015 | 14 | 10 | 4 | Apr 2020 | $33 \%$ | 3 |

[^2]| Origination Month | Originated 5H Loans | Loans Paid Offl <br> Refinanced | Loans Converted | First Interest Adjustment Date | Conversion Rate | Floating Loans as of June 2023 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Apr 2015 | 9 | 5 | 4 | May 2020 | 36\% | 1 |
| May 2015 | 9 | 6 | 3 | Jun 2020 | 35\% | 1 |
| Jun 2015 | 28 | 14 | 14 | Jul 2020 | 40\% | 5 |
| Jul 2015 | 31 | 14 | 17 | Aug 2020 | 44\% | 6 |
| Aug 2015 | 50 | 18 | 32 | Sep 2020 | 50\% | 16 |
| Sep 2015 | 68 | 32 | 36 | Oct 2020 | 51\% | 20 |
| Oct 2015 | 50 | 26 | 24 | Nov 2020 | 51\% | 8 |
| Nov 2015 | 42 | 18 | 24 | Dec 2020 | 51\% | 9 |
| Dec 2015 | 71 | 34 | 37 | Jan 2021 | 52\% | 16 |
| Jan 2016 | 53 | 26 | 27 | Feb 2021 | 51\% | 9 |
| Feb 2016 | 56 | 27 | 29 | Mar 2021 | 51\% | 10 |
| Mar 2016 | 70 | 42 | 28 | Apr 2021 | 50\% | 6 |
| Apr 2016 | 56 | 31 | 25 | May 2021 | 50\% | 12 |
| May 2016 | 53 | 18 | 35 | Jun 2021 | 51\% | 22 |
| Jun 2016 | 67 | 40 | 27 | Jul 2021 | 50\% | 16 |
| Jul 2016 | 26 | 12 | 14 | Aug 2021 | 50\% | 5 |
| Aug 2016 | 28 | 15 | 13 | Sep 2021 | 50\% | 10 |
| Sep 2016 | 30 | 18 | 12 | Oct 2021 | 50\% | 7 |
| Oct 2016 | 46 | 23 | 23 | Nov 2021 | 50\% | 11 |
| Nov 2016 | 42 | 22 | 20 | Dec 2021 | 50\% | 9 |
| Dec 2016 | 99 | 34 | 65 | Jan 2022 | 51\% | 37 |
| Jan 2017 | 80 | 43 | 37 | Feb 2022 | 51\% | 13 |
| Feb 2017 | 60 | 28 | 32 | Mar 2022 | 51\% | 18 |
| Mar 2017 | 86 | 42 | 44 | Apr 2022 | 51\% | 30 |
| Apr 2017 | 45 | 20 | 25 | May 2022 | 51\% | 13 |
| May 2017 | 88 | 34 | 54 | Jun 2022 | 52\% | 36 |
| Jun 2017 | 96 | 63 | 33 | Jul 2022 | 51\% | 23 |
| Jul 2017 | 69 | 38 | 31 | Aug 2022 | 50\% | 13 |
| Aug 2017 | 148 | 99 | 49 | Sep 2022 | 49\% | 25 |
| Sep 2017 | 103 | 43 | 60 | Oct 2022 | 49\% | 55 |
| Oct 2017 | 57 | 28 | 29 | Nov 2022 | 49\% | 25 |
| Nov 2017 | 78 | 38 | 40 | Dec 2022 | 49\% | 37 |
| Dec 2017 | 80 | 33 | 47 | Jan 2023 | 50\% | 44 |
| Jan 2018 | 50 | 24 | 26 | Feb 2023 | 50\% | 24 |
| Feb 2018 | 72 | 34 | 38 | Mar 2023 | 50\% | 36 |
| Mar 2018 | 92 | 58 | 34 | Apr 2023 | 49\% | 30 |
| Apr 2018 | 103 | 68 | 35 | May 2023 | 49\% | 32 |
| May 2018 | 54 | 32 | 22 | Jun 2023 | 49\% | 22 |
| Total | 2,381 | 1,224 | 1,157 |  | 49\% | 718 |

Source: Freddie Mac
Among the 7-year hybrid loans that were originated prior to May 2016, a total of 93 loans converted to floating-rate by the June 2023 data cut-off of this report, as shown in Exhibit 9. Once converted, the standard prepayment penalty is $1 \%$ (unless refinanced with Freddie Mac, in which case the prepayment is contractually not due). Of those 93 loans, 76 either paid off or were refinanced prior to converting, while the remaining 17 converted, for an overall conversion rate of $18 \%$. Of those loans that converted, $24 \%$, or 4 loans paid off after they extended.

Exhibit 10: Analysis of 7-Year Hybrid Loan Conversion Rates

| Origination Month | Originated 7H Loans | Loans Paid Offl Refinanced | Loans Converted | First Interest Adjustment Date | Conversion Rate | Floating Loans as of December 2022 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nov 2014 | 1 | 1 | 0 | Dec 2021 | 0\% | -- |
| Dec 2014 | 0 | 0 | 0 | Jan 2022 | 0\% | -- |
| Jan 2015 | 0 | 0 | 0 | Feb 2022 | 0\% | -- |
| Feb 2015 | 1 | 1 | 0 | Mar 2022 | 0\% |  |
| Mar 2015 | 0 | 0 | 0 | Apr 2022 | 0\% |  |
| Apr 2015 | 4 | 3 | 1 | May 2022 | 17\% | 1 |
| May 2015 | 2 | 2 | 0 | Jun 2022 | 13\% |  |
| Jun 2015 | 6 | 5 | 1 | Jul 2022 | 14\% | 1 |
| Jul 2015 | 13 | 10 | 3 | Aug 2022 | 19\% | 2 |
| Aug 2015 | 6 | 3 | 3 | Sep 2022 | 24\% | 3 |
| Sep 2015 | 4 | 4 | 0 | Oct 2022 | 22\% |  |
| Oct 2015 | 6 | 5 | 1 | Nov 2022 | 21\% | 1 |
| Nov 2015 | 3 | 2 | 1 | Dec 2022 | 22\% | 0 |
| Dec 2015 | 7 | 4 | 3 | Jan 2023 | 25\% | 1 |
| Jan 2016 | 1 | 1 | 0 | Feb 2023 | 24\% | 0 |
| Feb 2016 | 7 | 7 | 0 | Mar 2023 | 21\% | 0 |
| Mar 2016 | 12 | 10 | 2 | Apr 2023 | 21\% | 2 |
| Apr 2016 | 8 | 7 | 1 | May 2023 | 20\% | 1 |
| May 2016 | 12 | 11 | 1 | Jun 2023 | 18\% | 1 |
| Total | 93 | 76 | 17 |  | 18\% | 13 |

Historically, as loans season and enter lower prepayment premium periods, we expect loans to prepay more quickly and for CPRs to increase. This is illustrated below in Exhibit 11, where the prepayment speed increases as the seasoning increases and prepayment premium decreases.

Exhibit 11: CPR by Loan Prepayment Phase, Year and Payoff Counts in the Past 12 Months


Source: Freddie Mac
Exhibit 12 shows CPRs and prepayment count by Freddie Mac SB-Deal (see Appendix for additional chart). Because the history is short and SB-Deals are more heterogenous compared with K-Deals, we observe an uneven, albeit generally downward trending prepayment history over time, but the most seasoned deals are slowing. Some of the unevenness can be attributed to large pools of loans in deals paying off, inflating an individual deal's CPR. However, in general, the longer the deal has been outstanding, the higher the prepayment rate.

Exhibit 12: CPR, Initial UPB and Loan Count of Payoffs by FRESB Deal

| Deal | Initial <br> UPB, <br> \$M | CPR | Paid off Loan <br> count in the <br> past 12 <br> months | Deal | Initial <br> UPB, <br> \$M | CPR | Paid off Loan <br> count in the <br> past 12 <br> months |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SB001 | 121 | $7 \%$ | 2 | SB053 | 568 | $24 \%$ | 46 |
| SB002 | 122 | $8 \%$ | 3 | SB054 | 539 | $12 \%$ | 14 |
| SB004 | 192 | $11 \%$ | 5 | SB055 | 608 | $16 \%$ | 29 |
| SB005 | 145 | $5 \%$ | 1 | SB056 | 565 | $10 \%$ | 18 |
| SB006 | 202 | $10 \%$ | 3 | SB057 | 578 | $14 \%$ | 26 |
| SB007 | 101 | $0 \%$ | 0 | SB058 | 624 | $11 \%$ | 16 |
| SB009 | 445 | $11 \%$ | 9 | SB059 | 626 | $10 \%$ | 17 |
| SB010 | 148 | $16 \%$ | 5 | SB060 | 625 | $9 \%$ | 19 |
| SB011 | 110 | $9 \%$ | 2 | SB061 | 616 | $12 \%$ | 16 |
| SB012 | 167 | $6 \%$ | 2 | SB062 | 625 | $13 \%$ | 24 |
| SB013 | 401 | $17 \%$ | 8 | SB063 | 531 | $12 \%$ | 21 |
| SB014 | 310 | $21 \%$ | 8 | SB064 | 443 | $5 \%$ | 10 |
| SB015 | 302 | $18 \%$ | 9 | SB065 | 615 | $7 \%$ | 12 |


| Deal | $\begin{gathered} \text { Initial } \\ \text { UPB, M } \\ \$ \end{gathered}$ | CPR | Paid off Loan count in the past 12 months | Deal | Initial UPB, M \$ | CPR | Paid off Loan count in the past 12 months |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SB016 | 350 | 24\% | 11 | SB066 | 575 | 6\% | 12 |
| SB017 | 387 | 19\% | 9 | SB067 | 605 | 10\% | 16 |
| SB018 | 118 | 14\% | 2 | SB068 | 537 | 5\% | 9 |
| SB020 | 293 | 8\% | 9 | SB069 | 460 | 8\% | 13 |
| SB021 | 94 | 11\% | 2 | SB070 | 414 | 10\% | 15 |
| SB022 | 255 | 17\% | 9 | SB071 | 423 | 10\% | 12 |
| SB023 | 342 | 23\% | 8 | SB072 | 381 | 6\% | 10 |
| SB024 | 259 | 10\% | 6 | SB073 | 333 | 11\% | 11 |
| SB025 | 233 | 21\% | 10 | SB074 | 419 | 8\% | 13 |
| SB026 | 221 | 14\% | 5 | SB075 | 494 | 2\% | 6 |
| SB027 | 246 | 18\% | 7 | SB076 | 432 | 4\% | 8 |
| SB028 | 323 | 8\% | 9 | SB077 | 426 | 5\% | 5 |
| SB029 | 217 | 9\% | 5 | SB078 | 411 | 5\% | 7 |
| SB030 | 307 | 3\% | 2 | SB079 | 410 | 3\% | 4 |
| SB031 | 264 | 13\% | 9 | SB080 | 405 | 5\% | 10 |
| SB032 | 322 | 10\% | 9 | SB081 | 323 | 8\% | 9 |
| SB033 | 221 | 16\% | 6 | SB082 | 450 | 10\% | 18 |
| SB034 | 328 | 14\% | 7 | SB083 | 401 | 2\% | 3 |
| SB035 | 317 | 17\% | 9 | SB084 | 403 | 7\% | 9 |
| SB036 | 351 | 20\% | 16 | SB085 | 428 | 5\% | 7 |
| SB037 | 317 | 18\% | 21 | SB086 | 414 | 5\% | 6 |
| SB038 | 259 | 18\% | 16 | SB087 | 430 | 5\% | 8 |
| SB039 | 264 | 12\% | 4 | SB088 | 426 | 5\% | 7 |
| SB040 | 294 | 24\% | 23 | SB089 | 426 | 5\% | 6 |
| SB041 | 312 | 11\% | 7 | SB090 | 450 | 1\% | 1 |
| SB042 | 288 | 24\% | 23 | SB092 | 425 | 2\% | 4 |
| SB043 | 326 | 24\% | 19 | SB093 | 390 | 4\% | 6 |
| SB044 | 321 | 10\% | 7 | SB099 | 422 | 1\% | 3 |
| SB045 | 403 | 22\% | 24 | SB100 | 446 | 1\% | 4 |
| SB046 | 495 | 16\% | 22 | SB101 | 417 | 2\% | 5 |
| SB047 | 553 | 23\% | 34 | SB102 | 476 | 0\% | 1 |
| SB048 | 561 | 15\% | 20 | SB103 | 440 | 0\% | 1 |
| SB049 | 569 | 12\% | 12 | SB104 | 381 | 0\% | 0 |
| SB050 | 506 | 20\% | 32 | SB105 | 417 | 0\% | 0 |
| SB051 | 509 | 8\% | 13 | SB106 | 455 | 0\% | 0 |
| SB052 | 564 | 15\% | 28 |  |  |  |  |

Source: Freddie Mac

## Summary

There are many factors that drive prepayment behavior, some of which are idiosyncratic. Typically, as loans season and property values increase, the prepayment rates increase. Additionally, 5- and 7year hybrid loans started to convert in 2020 and 2022, respectively, which could lead to a higher level of prepayment activity. This is because most prepayments were made on seasoned loans, while recently originated loans are still unable to prepay. However, the higher interest rates and lower property values slowed down prepayment activity, which was observed in the last few months of 2022 and has slowed prepayments markedly into 2023.

Appendix: CPR by FRESB Deal in the Past 12 Months



[^0]:    ${ }^{1}$ All data points in this report are as of June 2023 unless otherwise stated. This analysis excludes third-party seasoned loans not typical of the program.

[^1]:    Source: Freddie Mac

[^2]:    ${ }^{4}$ See the SB-Deal $®$ X1 Bond Handout for the full list of scenarios where the $1 \%$ may not be due.

