
sallie mae

# Smart Option Student Loan 

Historical Performance Data

## Forward-Looking Statements and Disclaimer

## Cautionary Note Regarding Forward-Looking Statements

The following information is current as of March 31, 2023 (unless otherwise noted) and should be read in connection with the press release of SLM Corporation (the "Company") announcing its financial results for the quarter that ended March 31, 2023, the Form 10-Q for the quarter ended March 31, 2023 filed with the Securities and Exchange Commission (the "SEC") on April 26, 2023, and subsequent reports filed with the SEC.

 statements regarding future developments surrounding COVID-19 or any other pandemic, including, without limitation, statements regarding the potential impact of COVID-19 or any other

 and other factors, risks, and uncertainties; the Company's 2023 guidance; the Company's three-year horizon outlook; the Company's expectation and ability to execute loan sales and share












 increased capital requirements; increased competition from banks and other consumer lenders; the creditworthiness of our customers; changes in the general interest rate environment,



 forward-looking statements to conform such statements to actual results or changes in our expectations.

The Company reports financial results on a GAAP basis and also provides certain non-GAAP "Core Earnings" performance measures. The difference between the Company's non-GAAP "Core Earnings" and GAAP results for the periods presented were the unrealized, mark-to-fair value gains/losses on derivative contracts (excluding current period accruals on the derivative instruments), net of tax. These are recognized in GAAP, but not in non-GAAP "Core Earnings" results. The Company provides a non-GAAP "Core Earnings" measure because it is one of severa

 Financial Condition and Results of Operations - non-GAAP 'Core Earnings'" in the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2023.

Any data or other information presented in the following charts is for comparative purposes only and is not to be deemed a part of any offering of securities.
Any offering will be made solely through an offering document.

## Important Information Regarding Historical Loan Performance Data






 Mae Bank also sponsored on-balance sheet term securitizations as follows:

| Date | Transaction |  | Date |  | Transaction | Date | Transaction |
| :---: | :--- | :---: | :--- | :---: | :---: | :---: | :---: |
| July 2015 | SMB Private Education Loan Trust 2015-B | March 2018 | SMB Private Education Loan Trust 2018-A | August 2020 | SMB Private Education Loan Trust 2020-B |  |  |
| May 2016 | SMB Private Education Loan Trust 2016-A | June 2018 | SMB Private Education Loan Trust 2018-B | May 2021 | SMB Private Education Loan Trust 2021-B |  |  |
| July 2016 | SMB Private Education Loan Trust 2016-B | September 2018 | SMB Private Education Loan Trust 2018-C | August 2021 | SMB Private Education Loan Trust 2021-D |  |  |
| October 2016 | SMB Private Education Loan Trust 2016-C | March 2019 | SMB Private Education Loan Trust 2019-A | November 2021 | SMB Private Education Loan Trust 2021-E |  |  |
| February 2017 | SMB Private Education Loan Trust 2017-A | June 2019 | SMB Private Education Loan Trust 2019-B | August 2022 | SMB Private Education Loan Trust 2022-C |  |  |
| November 2017 | SMB Private Education Loan Trust 2017-B | February 2020 | SMB Private Education Loan Trust 2020-A | March 2023 | SMB Private Education Loan Trust 2023-A |  |  |

Sallie Mae Bank services the loans in all of the securitizations it has sponsored following the SMB 2014-A transaction.

## Types of Smart Option Student Loan Portfolio Data

## Smart Option Student Loan Portfolio Data for Sallie Mae Bank Serviced Loans.

 held by an ABS trust or another third party. All loans in this category are serviced by Sallie Mae Bank. Data in this category is used in the tables below under the following headings:

- "30-59 Day Delinquencies as a Percentage of Loans in P\&I Repayment;"
- "60-89 Day Delinquencies as a Percentage of Loans in P\&I Repayment;"
- "90-plus Day Delinquencies as a Percentage of Loans in P\&I Repayment;"
- "Forbearance as a Percentage of Loans in P\&I Repayment and Forbearance;"
- "Annualized Gross Defaults as a Percentage of Loans in P\&I Repayment;" and
- "Cumulative Defaults by P\&I Repayment Vintage and Years Since First P\&I Repayment Period"

 Mae Bank currently charges off loans at the end of the month in which they reach 120 days delinquent or otherwise when the loans are classified as a loss by us or our regulator.
 held by an ABS trust or another third party. All loans in this category are serviced by Sallie Mae Bank. Data in this category is used in the tables below under the following headings:
- "Voluntary Constant Prepayment Rates by Disbursement Vintage and Product;" and
- "Total Constant Prepayment Rates by Disbursement Vintage and Product."

This Smart Option Student Loan portfolio data provides insight into historical prepayment rates specifically of the Smart Option Student Loans covered.
Any data or other information presented in the following charts is for comparative purposes only and is not to be deemed a part of any offering of securities.

## Smart Option Serviced Portfolio: 30-59 Day Delinquencies

Smart Option Student Loans - Serviced Portfolio 30-59 Day Delinquencies ${ }^{(4)}$ as a \% of Loans in P\&I Repayment ${ }^{(1)}$ Data for Sallie Mae Bank
Aggregate of P\&l Repayment Vintages 2015-2022 ${ }^{(2) \text { (3) }}$


Smart Option Student Loans - Serviced Portfolio 30-59 Day Delinquencies ${ }^{(4)}$ as a \% of Loans in P\&I Repayment ${ }^{(1)}$ Data for Sallie Mae Bank
P\&l Repayment Vintages 2015-2022 ${ }^{(2),(3)}$


[^0]
## Smart Option Serviced Portfolio: 60-89 Day Delinquencies

Smart Option Student Loans - Serviced Portfolio 60-89 Day Delinquencies ${ }^{(4)}$ as a \% of Loans in P\&I Repayment ${ }^{(1)}$ Data for Sallie Mae Bank
Aggregate of P\&I Repayment Vintages 2015-2022 (2), (3)


Smart Option Student Loans - Serviced Portfolio 60-89 Day Delinquencies ${ }^{(4)}$ as a \% of Loans in P\&I Repayment ${ }^{(1)}$ Data for Sallie Mae Bank
P\&l Repayment Vintages 2015-2022 ${ }^{(2), ~(3)}$

 delinquency bucket period (i.e., 60-89 days) to conform with delinquency bucket periods defined by the FFIEC.

## Smart Option Serviced Portfolio: 90+ Day Delinquencies

Smart Option Student Loans - Serviced Portfolio 90+ Day Delinquencies ${ }^{(4)}$ as a \% of Loans in P\&I Repayment ${ }^{(1)}$ Data for Sallie Mae Bank
Aggregate of P\&I Repayment Vintages 2015-2022 ${ }^{(2), ~(3)}$


Smart Option Student Loans - Serviced Portfolio 90+ Day Delinquencies ${ }^{(4)}$ as a \% of Loans in P\&I Repayment ${ }^{(1)}$ Data for Sallie Mae Bank
P\&I Repayment Vintages 2015-2022 ${ }^{(2), ~(3)}$


## Data as of March 31, 2023

(1) Loans in P\&I Repayment include only those loans for which scheduled principal and interest payments were due at the end of the applicable monthly reporting period.
(2) P\&I Repayment Vintage is defined as the calendar year during which a borrower is first required to make full principal and interest payments on the loan.

 updated delinquency bucket period (i.e., 90 days and greater) to conform with delinquency bucket periods defined by the FFIEC.

## Smart Option Serviced Portfolio: Forbearance

Smart Option Student Loans - Serviced Portfolio
Forbearance as a \% of Loans in P\&I Repayment and Forbearance (1), (2) Data for Sallie Mae Bank
Aggregate of P\&I Repayment Vintages 2015-2022 (3),(4)


Smart Option Student Loans - Serviced Portfolio
Forbearance as a \% of Loans in P\&I Repayment and Forbearance ${ }^{(1),(2)}$ Data for Sallie Mae Bank
P\&I Repayment Vintages 2015-2022 ${ }^{(3),(4)}$


- SLM Bank 2015 Vintage
-SLM Bank 2017 Vintage
_SLM Bank 2019 Vintage
- SLM Bank 2021 Vintage
_SLM Bank 2016 Vintage
— SLM Bank 2018 Vintage
—SLM Bank 2020 Vintage
——SLM Bank 2022 Vintage

Data as of March 31, 2023.
(1) Loans in P\&I Repayment include only those loans for which scheduled principal and interest payments were due at the end of the applicable monthly reporting period.
(2) COVID-related disaster forbearance includes activity of current as well as delinquent accounts.
(3) P\&I Repayment Vintage is defined as the calendar year during which a borrower is first required to make full principal and interest payments on the loan.


## Smart Option Serviced Portfolio: Annualized Gross Defaults

Smart Option Student Loans - Serviced Portfolio Annualized Gross Defaults as a \% of Loans in P\&I Repayment ${ }^{(1)}$ Data for Sallie Mae Bank
Aggregate of P\&I Repayment Vintages 2015-2022 (2), (3)


Smart Option Student Loans - Serviced Portfolio Annualized Gross Defaults as a \% of Loans in P\&I Repayment ${ }^{(1)}$ Data for Sallie Mae Bank
P\&I Repayment Vintages 2015-2022 ${ }^{(2), ~(3)}$


## Data as of March 31, 2023.

(1) Loans in P\&I Repayment include only those loans for which scheduled principal and interest payments were due at the end of the applicable monthly reporting period.
(2) P\&I Repayment Vintage is defined as the calendar year during which a borrower is first required to make full principal and interest payments on the loan.


## Smart Option Vintage Data: Cumulative Gross Default by Loan Type


(1) Please see page 17 for a description and explanation of the data and calculations underlying these charts.
(2) Data as of March 31, 2023. All loans covered are serviced by Sallie Mae Bank, regardless of whether the loans were included in an ABS trust.

Note: Historical trends may not be indicative of future performance.

## Smart Option Vintage Data: Voluntary Prepayments

Smart Option Student Loans - Serviced Portfolio: All Products Voluntary CPR by Disbursement Vintage ${ }^{(1), ~(2), ~(3) ~}$


Smart Option Student Loans - Serviced Portfolio: Interest Only Voluntary CPR by Disbursement Vintage ${ }^{(1), ~(2), ~(3) ~}$


Smart Option Student Loans - Serviced Portfolio: Fixed Pay Voluntary CPR by Disbursement Vintage ${ }^{(1),(2),(3)}$


Smart Option Student Loans - Serviced Portfolio: Deferred Voluntary CPR by Disbursement Vintage ${ }^{(1), ~(2), ~(3) ~}$


## Data as of March 31, 2023

(1) Please see pages 18 \& 19 for a description and explanation of the data and calculations underlying these charts.
(2) Data for all loans from initial disbursement, whether or not scheduled payments are due. Voluntary CPR includes only voluntary prepayments.



 of the month in 2020 during which such loan was disbursed.

## Smart Option Vintage Data: Total Prepayments

- Following the initial few years after disbursement, total prepayments begin to rise more quickly as loans begin to default.

Smart Option Student Loans - Serviced Portfolio: All Products Total CPR by Disbursement Vintage ${ }^{(1),(2),(3)}$


Smart Option Student Loans - Serviced Portfolio: Interest Only Total CPR by Disbursement Vintage ${ }^{(1), ~(2), ~(3) ~}$


Smart Option Student Loans - Serviced Portfolio: Fixed Pay Total CPR by Disbursement Vintage ${ }^{(1), ~(2), ~(3) ~}$


Smart Option Student Loans - Serviced Portfolio: Deferred Total CPR by Disbursement Vintage ${ }^{(1),(2),(3)}$


## Data as of March 31, 2023

(1) Please see pages 18 \& 19 for a description and explanation of the data and calculations underlying these charts.
(2) Data for all loans from initial disbursement, whether or not scheduled payments are due.



 of the month in 2020 during which such loan was disbursed.

Cohort Default Triangles - Smart Option Combined (Interest Only, Fixed Payment \& Deferred)

(1) Please see page 17 for a description and explanation of the data and calculations underlying these charts.
(2) Data as of March 31, 2023 for Sallie Mae Bank serviced loans only.
(3) Numerator is the Periodic Defaults in each P\&I Repayment Vintage. Denominator is the amount of Disbursed Principal for that P\&I Repayment Vintage.
(4) Most recent data point for any P\&I Repayment Vintage is for a partial year.

Note: Historical trends may not be indicative of future performance.

## Cohort Default Triangles - Smart Option Interest Only


(1) Please see page 17 for a description and explanation of the data and calculations underlying these charts.
(2) Data as of March 31, 2023 for Sallie Mae Bank serviced loans only.
(3) Numerator is the Periodic Defaults in each P\&I Repayment Vintage. Denominator is the amount of Disbursed Principal for that P\&I Repayment Vintage.
(4) Most recent data point for any P\&I Repayment Vintage is for a partial year.

Note: Historical trends may not be indicative of future performance.

## Cohort Default Triangles - Smart Option Fixed Payment

| Smart Option Fixed Payment (P\&I Repayment - Total) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P\&I Repayment Vintage | Disbursed Principal Entering P\&I Repayment (\$m) | Periodic Defaults Percentage <br> by Years Since First P\&I Repayment Period ${ }^{(1), ~(2), ~(3), ~(4) ~}$ |  |  |  |  |  |  |  |  |  |  |
|  |  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Total |
| 2015 | 781 | 0.4\% | 1.3\% | 1.4\% | 0.9\% | 0.8\% | 0.6\% | 0.6\% | 0.7\% | 0.2\% |  | 6.8\% |
| 2016 | 1,008 | 0.4\% | 1.0\% | 1.2\% | 0.9\% | 0.7\% | 0.6\% | 0.8\% | 0.3\% |  |  | 5.8\% |
| 2017 | 1,168 | 0.3\% | 0.9\% | 1.2\% | 0.8\% | 0.7\% | 0.9\% | 0.3\% |  |  |  | 5.1\% |
| 2018 | 1,261 | 0.3\% | 0.9\% | 1.0\% | 0.8\% | 0.9\% | 0.3\% |  |  |  |  | 4.2\% |
| 2019 | 1,373 | 0.3\% | 0.8\% | 1.2\% | 1.2\% | 0.3\% |  |  |  |  |  | 3.8\% |
| 2020 | 1,379 | 0.2\% | 0.9\% | 1.3\% | 0.3\% |  |  |  |  |  |  | 2.7\% |
| 2021 | 1,591 | 0.2\% | 1.7\% | 0.6\% |  |  |  |  |  |  |  | 2.5\% |
| 2022 | 1,641 | 0.6\% | 0.2\% |  |  |  |  |  |  |  |  | 0.8\% |
| Smart Option Fixed Payment (P\&/ Repayment - Co-signer) |  |  |  |  |  |  |  |  |  |  |  |  |
| P\&I Repayment Vintage | Disbursed Principal Entering P\&I Repayment (\$m) | Periodic Defaults Percentage <br> by Years Since First P\&I Repayment Period ${ }^{\text {(1), (2), (3), (4) }}$ |  |  |  |  |  |  |  |  |  |  |
|  |  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Total |
| 2015 | 704 | 0.3\% | 1.1\% | 1.2\% | 0.8\% | 0.7\% | 0.5\% | 0.6\% | 0.7\% | 0.2\% |  | 6.1\% |
| 2016 | 907 | 0.3\% | 0.9\% | 1.1\% | 0.8\% | 0.6\% | 0.6\% | 0.8\% | 0.3\% |  |  | 5.4\% |
| 2017 | 1,051 | 0.3\% | 0.8\% | 1.2\% | 0.7\% | 0.7\% | 0.8\% | 0.3\% |  |  |  | 4.8\% |
| 2018 | 1,135 | 0.2\% | 0.8\% | 1.0\% | 0.7\% | 0.9\% | 0.3\% |  |  |  |  | 3.9\% |
| 2019 | 1,234 | 0.3\% | 0.8\% | 1.1\% | 1.1\% | 0.3\% |  |  |  |  |  | 3.5\% |
| 2020 | 1,239 | 0.2\% | 0.8\% | 1.2\% | 0.3\% |  |  |  |  |  |  | 2.4\% |
| 2021 | 1,439 | 0.2\% | 1.5\% | 0.5\% |  |  |  |  |  |  |  | 2.2\% |
| 2022 | 1,477 | 0.4\% | 0.2\% |  |  |  |  |  |  |  |  | 0.6\% |
| Smart Option Fixed Payment (P\&l Repayment - No Co-signer) |  |  |  |  |  |  |  |  |  |  |  |  |
| P\&I Repayment Vintage | Disbursed Principal Entering P\&I Repayment (\$m) | Periodic Defaults Percentage by Years Since First P\&I Repayment Period ${ }^{\text {(1), (2), (3), (4) }}$ |  |  |  |  |  |  |  |  |  |  |
|  |  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Total |
| 2015 | 77 | 1.5\% | 2.9\% | 2.8\% | 1.8\% | 1.1\% | 1.0\% | 0.9\% | 0.6\% | 0.1\% |  | 12.7\% |
| 2016 | 102 | 0.9\% | 2.3\% | 2.1\% | 1.4\% | 1.2\% | 0.5\% | 0.8\% | 0.2\% |  |  | 9.4\% |
| 2017 | 117 | 0.8\% | 2.1\% | 1.6\% | 1.3\% | 0.9\% | 1.0\% | 0.4\% |  |  |  | 8.0\% |
| 2018 | 126 | 0.7\% | 2.0\% | 1.6\% | 1.1\% | 1.1\% | 0.5\% |  |  |  |  | 6.9\% |
| 2019 | 139 | 0.6\% | 1.6\% | 1.8\% | 1.6\% | 0.5\% |  |  |  |  |  | 6.1\% |
| 2020 | 139 | 0.3\% | 1.9\% | 2.7\% | 0.5\% |  |  |  |  |  |  | 5.4\% |
| 2021 | 152 | 0.7\% | 3.4\% | 0.9\% |  |  |  |  |  |  |  | 5.0\% |
| 2022 | 164 | 1.9\% | 0.7\% |  |  |  |  |  |  |  |  | 2.6\% |

[^1](2) Data as of March 31, 2023 for Sallie Mae Bank serviced loans only.
(3) Numerator is the Periodic Defaults in each P\&I Repayment Vintage. Denominator is the amount of Disbursed Principal for that P\&I Repayment Vintage.
(4) Most recent data point for any P\&I Repayment Vintage is for a partial year.

Note: Historical trends may not be indicative of future performance.

Cohort Default Triangles - Smart Option Deferred Payment

| P\&I Repayment | Disbursed Principal Entering P\&I Repayment (\$m) | Periodic Defaults Percentage <br> by Years Since First P\&I Repayment Period ${ }^{(1), ~(2), ~(3), ~(4) ~}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Total |
| 2015 | 1,139 | 0.1\% | 2.8\% | 2.1\% | 1.5\% | 1.1\% | 0.9\% | 0.9\% | 1.2\% | 0.4\% |  | 11.0\% |
| 2016 | 1,422 | 0.1\% | 2.2\% | 2.2\% | 1.3\% | 1.1\% | 1.2\% | 1.4\% | 0.5\% |  |  | 9.9\% |
| 2017 | 1,683 | 0.1\% | 2.1\% | 2.1\% | 1.3\% | 1.3\% | 1.6\% | 0.5\% |  |  |  | 8.9\% |
| 2018 | 1,838 | 0.1\% | 1.9\% | 2.3\% | 1.6\% | 1.9\% | 0.6\% |  |  |  |  | 8.2\% |
| 2019 | 1,943 | 0.1\% | 2.0\% | 2.3\% | 2.3\% | 0.6\% |  |  |  |  |  | 7.2\% |
| 2020 | 1,843 | 0.1\% | 2.2\% | 2.6\% | 0.7\% |  |  |  |  |  |  | 5.5\% |
| 2021 | 2,128 | 0.1\% | 4.3\% | 0.9\% |  |  |  |  |  |  |  | 5.2\% |
| 2022 | 2,070 | 0.1\% | 0.1\% |  |  |  |  |  |  |  |  | 0.2\% |
| Smart Option Deferred (P\&I Repayment - Co-signer) |  |  |  |  |  |  |  |  |  |  |  |  |
| P\&I Repayment Vintage | Disbursed Principal Entering P\&I Repayment (\$m) | Periodic Defaults Percentage <br> by Years Since First P\&I Repayment Period ${ }^{(1), ~(2), ~(3), ~(4) ~}$ |  |  |  |  |  |  |  |  |  |  |
|  |  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Total |
| 2015 | 1,019 | 0.1\% | 2.3\% | 1.9\% | 1.4\% | 1.0\% | 0.9\% | 0.9\% | 1.2\% | 0.4\% |  | 10.1\% |
| 2016 | 1,289 | 0.1\% | 1.9\% | 2.1\% | 1.3\% | 1.0\% | 1.1\% | 1.4\% | 0.4\% |  |  | 9.3\% |
| 2017 | 1,531 | 0.1\% | 1.8\% | 2.0\% | 1.2\% | 1.2\% | 1.6\% | 0.5\% |  |  |  | 8.4\% |
| 2018 | 1,675 | 0.1\% | 1.6\% | 2.2\% | 1.5\% | 1.8\% | 0.6\% |  |  |  |  | 7.9\% |
| 2019 | 1,773 | 0.1\% | 1.8\% | 2.3\% | 2.2\% | 0.6\% |  |  |  |  |  | 6.8\% |
| 2020 | 1,687 | 0.0\% | 2.0\% | 2.5\% | 0.6\% |  |  |  |  |  |  | 5.2\% |
| 2021 | 1,960 | 0.1\% | 4.0\% | 0.8\% |  |  |  |  |  |  |  | 4.9\% |
| 2022 | 1,900 | 0.1\% | 0.1\% |  |  |  |  |  |  |  |  | 0.2\% |
| Smart Option Deferred (P\&I Repayment - No Co-signer) |  |  |  |  |  |  |  |  |  |  |  |  |
| P\&I Repayment Vintage | Disbursed Principal Entering P\&I Repayment (\$m) | Periodic Defaults Percentage by Years Since First P\&I Repayment Period ${ }^{(1),(2),(3),(4)}$ |  |  |  |  |  |  |  |  |  |  |
|  |  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Total |
| 2015 | 120 | 0.6\% | 6.7\% | 3.4\% | 2.4\% | 1.6\% | 1.5\% | 1.0\% | 1.0\% | 0.4\% |  | 18.6\% |
| 2016 | 133 | 0.0\% | 4.8\% | 3.8\% | 2.1\% | 1.5\% | 1.4\% | 1.4\% | 0.5\% |  |  | 15.5\% |
| 2017 | 152 | 0.1\% | 4.8\% | 3.1\% | 1.9\% | 1.4\% | 1.8\% | 0.6\% |  |  |  | 13.8\% |
| 2018 | 162 | 0.0\% | 4.4\% | 2.9\% | 2.0\% | 2.3\% | 0.6\% |  |  |  |  | 12.3\% |
| 2019 | 170 | 0.0\% | 4.0\% | 3.0\% | 3.5\% | 0.7\% |  |  |  |  |  | 11.2\% |
| 2020 | 155 | 0.1\% | 4.0\% | 4.0\% | 1.1\% |  |  |  |  |  |  | 9.2\% |
| 2021 | 169 | 0.1\% | 7.7\% | 1.4\% |  |  |  |  |  |  |  | 9.1\% |
| 2022 | 170 | 0.1\% | 0.1\% |  |  |  |  |  |  |  |  | 0.2\% |

(1) Please see page 17 for a description and explanation of the data and calculations underlying these charts.
(2) Data as of March 31, 2023 for Sallie Mae Bank serviced loans only.
(3) Numerator is the Periodic Defaults in each P\&I Repayment Vintage. Denominator is the amount of Disbursed Principal for that P\&/ Repayment Vintage.
(4) Most recent data point for any P\&I Repayment Vintage is for a partial year.

Note: Historical trends may not be indicative of future performance.

## - Additional Information

## Smart Option Loan Program Cohort Default Triangles

## Terms and calculations used in the cohort default triangles are defined below:

- First P\&I Repayment Period - The first month during which a borrower is required to make a full principal and interest payment on a loan. This date is static. Once a loan enters P\&I repayment, the date is locked in and does not change. This refinement to the methodology was made in 2021 Q2.
- P\&I Repayment Vintage - The calendar year of a loan’s First P\&I Repayment Period.
- Disbursed Principal Entering P\&I Repayment - The total amount of disbursed loan principal in a P\&I Repayment Vintage, excluding any interest capitalization.
- Reported Default Data -
- For loans that default after their First P\&I Repayment Period: Loans enter a particular annual P\&I Repayment Vintage at different times during the P\&l Repayment Vintage year. Default data is not reported for loans in a particular annual P\&I Repayment Vintage until the First P\&I Repayment Period has occurred for all loans in that annual P\&I Repayment Vintage. Once reporting starts, data reflects defaults that occurred in a particular period through the number of months since December 31 of that annual P\&I Repayment Vintage year. For example, in the relevant charts and tables included in this presentation as of March 31, 2023: (i) default data reported for loans in the 2021 P\&I Repayment Vintage represents defaults occurring during the first 15 months after a loan's First P\&I Repayment Period regardless of the month in 2021 during which the first full principal and interest payment for that loan became due; and (ii) default data for loans in the 2020 P\&I Repayment Vintage represents defaults occurring during the first 27 months after a loan's First P\&I Repayment Period regardless of the month in 2020 during which the first full principal and interest payment for that loan became due.
- For loans that default prior to their First P\&I Repayment Period: Loans defaulting prior to their First P\&I Repayment Period are included in the P\&I Repayment Vintage corresponding to the calendar year in which the default occurs, and are aggregated and reported in Year 0 of that P\&l Repayment Vintage in the relevant charts and tables. For example: (a) if a loan's First P\&I Repayment Period was scheduled for 2021, but the loan defaulted in 2020, the default amount is reflected in Year 0 of the 2020 P\&I Repayment Vintage; and (b) if a loan's First P\&I Repayment Period occurred in 2022, but the loan defaulted in 2021 before that First P\&I Repayment Period, the default amount is reflected in Year O of the 2021 P\&I Repayment Vintage.
- For loans that pay off prior to their First P\&I Repayment Period: Loans paid off prior to their First P\&I Repayment Period are included in the Disbursed Principal Entering P\&I Repayment of the P\&I Repayment Vintage corresponding to the calendar year in which the payoff occurs.
- Periodic Defaults - For any loan in a particular P\&I Repayment Vintage, the defaulted principal and interest is reflected in the year corresponding to the number of years since the First P\&I Repayment Period for that loan
- Cumulative Defaults-At any time for a particular P\&I Repayment Vintage, the cumulative sum of Periodic Defaults for that vintage.
- Defaulted principal includes any interest capitalization that occurred prior to default
- Defaulted principal is not reduced by any amounts recovered after the loan defaulted
- Because the numerator includes capitalized interest while the denominator (i.e., Disbursed Principal Entering P\&I Repayment) does not, default rates are higher than they would be if the numerator and denominator both included capitalized interest

[^2]
## Smart Option Loan Program: Prepayment Methodology

The Constant Prepayment Rate (CPR) represents an annualized rate of prepayment speed measuring the reduction in the principal balance of a pool of loans in excess of the scheduled pool amortization. The rate can be positive or negative depending on whether the pool principal balance is less than or greater than the expected principal amount. A CPR greater than zero suggests that the pool is paying down faster than the expected amortization. Conversely, a CPR less than zero suggests that the pool is paying down more slowly than the expected amortization.

- Total CPR - A broad measure of prepayment activity including both voluntary and involuntary prepayments
- Voluntary CPR - The portion of Total CPR attributable to pool principal balance paid down prematurely by borrowers in a given period
- Involuntary CPR - The portion of Total CPR attributable to defaults
- Scheduled Payment (SP) - The monthly payment due on a loan; not impacted by forbearance, deferment, or any concession
- Received Payment (PMT) - The monthly payment received on a loan
- Expected Balance (EXP) - For any month, the prior month's principal balance plus the current month's interest accrued less the Scheduled Payment
- Prepayment - Any payment made during the month exceeding the Scheduled Payment
- Single Month Mortality Rate (SMM) - The percentage of the Expected Balance prepaid in a given month
- Survival Rate (SR) - The percentage of the Expected Balance not prepaid in a given month

| Factors Impacting Prepayments | Total CPR | Voluntary CPR |
| :--- | :---: | :---: |
| Capitalization of accrued interest after <br> school and six-month grace | No impact | No impact |
| Borrower's payment equals the Scheduled <br> Payment | No impact | No impact |
| Borrower makes an extra payment on the <br> loan (i.e., principal curtailment) | + | + |
| Borrower pays off the loan balance prior to <br> loan's scheduled maturity | + | + |
| Loan is paid in full through a loan <br> consolidation | + | + |
| Forbearance, deferment, or any concession | - | - |
| Delinquency | - | - |
| Default | + | No impact |
| Borrower benefit interest rate discounts | No impact | No impact |


| Legend | + | Impact is positive | - | Impact is negative |
| :--- | :--- | :--- | :--- | :--- |

## Smart Option Loan Program: Prepayment Methodology




[^0]:    Data as of March 31, 2023.
    (1) Loans in P\&I Repayment include only those loans for which scheduled principal and interest payments were due at the end of the applicable monthly reporting period.
    (2) P\&I Repayment Vintage is defined as the calendar year during which a borrower is first required to make full principal and interest payments on the loan.
    
     delinquency bucket period (i.e., 30-59 days) to conform with delinquency bucket periods defined by the FFIEC.

[^1]:    (1) Please see page 17 for a description and explanation of the data and calculations underlying these charts.

[^2]:    Note: Historical trends suggested by the cohort default triangles may not be indicative of future performance.

