

ABSPERPETUAL**CONDITIONAL
PREPAYMENT RATE (CPR)****Derivation of the Periodic CPR for publication on
ABSPerpetual**

Periodic Conditional Prepayment Rate (CPR) is the annualised percentage of a mortgage pool's principal balance that will be paid off each period ahead of schedule. A constant rate for prepayment is assumed and is calculated as follows:

$$CPR = 1 - (1 - SMM)^{12}$$

Single Monthly Mortality (SMM) is the prepayment rate of the mortgage pool in a given month calculated by:

$$SMM = \frac{\text{Total Prepayments}}{\text{Scheduled Pool Balance}}$$

Total Prepayments within a reporting period can be determined from the principal collections within the month and the expected scheduled principal payments.

$$\text{Principal Collections} = RT254$$

The reported data does not contain Scheduled principal payments as a data field but this can be derived from the change in Scheduled Balance month to month. Loans with a status for Repurchased by Seller (6 or 7) will be substituted and are excluded from the calculation:

$$\text{Scheduled Principal Payment} = \text{Aggregate previous Scheduled Balance (RL013)}^{\#} \\ - \text{Aggregate current Scheduled Balance (RL013)}$$

Where Account Status RLO49 = 1, 2, 3, 4 or 5 – Performing, Arrears, Default, Foreclosure or Redeemed respectively

Loans that exited the pool^{##} in the previous month are excluded from the aggregation (RLO49 = 5, 6 or 7).

As the principal collections may also include substituted loans, further advances and redraws, the value must be adjusted to determine the true prepayments.

- **Substitutions** can be sourced directly from the transaction data:

$$\text{Inward Substitutions} = RT112$$

$$\text{Outward Substitutions} = RT113$$

- **Further advances** can be determined by tracking the approval amount changes from month to month (substituted loans are excluded)

$$\text{Further Advances} = \text{Aggregate current Most Recent Approval amount (RL011)} \\ - \text{Aggregate previous Most Recent Approval Amount (RL011)}$$

Where RLO49 = 1, 2, 3, 4, or 5

Loans that exited the pool in the previous month are excluded from the aggregation.

- Redraws are also sourced directly from the reported data:

$$\text{Redraws} = \text{RT111}$$

This yields the following formula for total prepayments:

$$\begin{aligned} \text{Total Prepayments} = & \text{Principal Collections} - \text{Scheduled Principal Payment} \\ & - \text{Inward Substitutions} + \text{Outward Substitutions} \\ & - \text{Further Advances} - \text{Redraws} \end{aligned}$$

Scheduled Pool Balance is determined based on the Opening Balance from the reported data and Scheduled Principal Payment from above:

$$\begin{aligned} \text{Scheduled Pool Balance} = & \text{Opening Pool Balance (RT253)} \\ & - \text{Scheduled Principal Payment} \end{aligned}$$

Based on the above, the SMM calculation breaks down to:

$$\text{SMM} = \frac{\text{Total Prepayments}}{\text{Scheduled Pool Balance}}$$

$$= \frac{\text{Principal Collections} - \text{Scheduled Principal Payment} - \text{Inward Substitutions} + \text{Outward Substitutions} - \text{Further Advances} - \text{Redraws}}{\text{Opening Pool Balance} - \text{Scheduled Principal Payment}}$$

$$\begin{aligned} & \text{RT254} - (\text{Previous aggregate RL013} - \text{Current aggregate RL013}) \\ & \quad - \text{RT112} + \text{RT113} \\ = & \frac{-(\text{Current aggregate RL011} - \text{Previous aggregated RL011}) - \text{RT111}}{\text{RT253} - (\text{Previous aggregate RL013} - \text{Current aggregate RL013})} \end{aligned}$$

The value for SMM is then substituted into the formula to determine CPR:

$$\text{CPR} = 1 - (1 - \text{SMM})^{12}$$

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QUESTIONS & FEEDBACK

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