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Where:

$$G_{i,k} = \frac{V_{i,k,t}}{V_{i,k,t-12}} - 1,$$

V is the portfolio amount as reported on the Call Report/TFR and t is the quarter for which the assessment is being determined.

The risk weight for each portfolio reflects relative peak loss rates for banks at the 90th percentile during the 1990–2009 period.[16] These loss rates were converted into equivalent risk weights as shown in Table C.1.

TABLE C.1—90TH PERCENTILE ANNUAL LOSS RATES FOR 1990–2009 PERIOD AND CORRESPONDING RISK WEIGHTS

Portfolio	Loss rates (90th percentile)	Risk weights
First-Lien Mortgages	2.3%	0.5
Second/Junior Lien Mortgages	4.6%	0.9
Commercial and Industrial (C&I) Loans	5.0%	1.0
Construction and Development (C&D) Loans	15.0%	3.0
Commercial Real Estate Loans, excluding C&D	4.3%	0.9
Credit Card Loans	11.8%	2.4
Other Consumer Loans	5.9%	1.2

[77 FR 66017, Oct. 31, 2013, as amended at 78 FR 55594, Sept. 10, 2013]

APPENDIX D TO SUBPART A OF PART 327—DESCRIPTION OF THE LOSS SEVERITY MEASURE

The loss severity measure applies a standardized set of assumptions to an institution's balance sheet to measure possible losses to the FDIC in the event of an institution's failure. To determine an institution's loss severity rate, the FDIC first applies assumptions about uninsured deposit and other unsecured liability runoff, and growth in insured deposits, to adjust the size and composition of the institution's liabilities. Assets are then reduced to match any reduction in liabilities.[1] The institution's asset values are then further reduced so that the Tier 1 leverage ratio reaches 2 percent.[2] In both cases, assets are adjusted pro rata to preserve the institution's asset composition. Assumptions regarding loss rates at failure for a given asset category and the extent of secured liabilities are then applied to estimated assets and liabilities at failure to determine whether the institution has enough unencumbered assets to cover domestic deposits. Any projected shortfall is divided by current domestic deposits to obtain an end-of-period loss severity ratio. The loss severity measure is an average loss severity ratio for the three most recent quarters of data available.

Runoff and Capital Adjustment Assumptions

Table D.1 contains run-off assumptions.

TABLE D.1—RUNOFF RATE ASSUMPTIONS

Liability type	Runoff rate * (percent)
Insured Deposits	(10)
Uninsured Deposits	58
Foreign Deposits	80
Federal Funds Purchased	100
Repurchase Agreements	75

[16] The risk weights are based on loss rates for each portfolio relative to the loss rate for C&I loans, which is given a risk weight of 1. The peak loss rates were derived as follows. The loss rate for each loan category for each bank with over $5 billion in total assets was calculated for each of the last twenty calendar years (1990–2009). The highest value of the 90th percentile of each loan category over the twenty year period was selected as the peak loss rate.

[1] In most cases, the model would yield reductions in liabilities and assets prior to failure. Exceptions may occur for institutions primarily funded through insured deposits, which the model assumes to grow prior to failure.

[2] Of course, in reality, runoff and capital declines occur more or less simultaneously as an institution approaches failure. The loss severity measure assumptions simplify this process for ease of modeling.

TABLE D.1—RUNOFF RATE ASSUMPTIONS—Continued

Liability type	Runoff rate * (percent)
Trading Liabilities	50
Unsecured Borrowings <= 1 Year	75
Secured Borrowings <= 1 Year	25
Subordinated Debt and Limited Liability Preferred Stock	15

* A negative rate implies growth.

Given the resulting total liabilities after runoff, assets are then reduced pro rata to preserve the relative amount of assets in each of the following asset categories and to achieve a Tier 1 leverage ratio of 2 percent:

- Cash and Interest Bearing Balances;
- Trading Account Assets;
- Federal Funds Sold and Repurchase Agreements;
- Treasury and Agency Securities;
- Municipal Securities;
- Other Securities;
- Construction and Development Loans;
- Nonresidential Real Estate Loans;
- Multifamily Real Estate Loans;
- 1–4 Family Closed-End First Liens;
- 1–4 Family Closed-End Junior Liens;
- Revolving Home Equity Loans; and
- Agricultural Real Estate Loans.

Recovery Value of Assets at Failure

Table D.2 shows loss rates applied to each of the asset categories as adjusted above.

TABLE D.2—ASSET LOSS RATE ASSUMPTIONS

Asset category	Loss rate (percent)
Cash and Interest Bearing Balances	0.0
Trading Account Assets	0.0
Federal Funds Sold and Repurchase Agreements	0.0
Treasury and Agency Securities	0.0
Municipal Securities	10.0
Other Securities	15.0
Construction and Development Loans	38.2
Nonresidential Real Estate Loans	17.6
Multifamily Real Estate Loans	10.8
1–4 Family Closed-End First Liens	19.4
1–4 Family Closed-End Junior Liens	41.0
Revolving Home Equity Loans	41.0
Agricultural Real Estate Loans	19.7
Agricultural Loans	11.8
Commercial and Industrial Loans	21.5
Credit Card Loans	18.3
Other Consumer Loans	18.3
All Other Loans	51.0
Other Assets	75.0

Secured Liabilities at Failure

Federal home loan bank advances, secured federal funds purchased and repurchase agreements are assumed to be fully secured. Foreign deposits are treated as fully secured because of the potential for ring fencing.

Loss Severity Ratio Calculation

The FDIC's loss given failure (LGD) is calculated as:

$$LGD = \frac{InsuredDeposits_{Failure}}{DomesticDeposits_{Failure}} \times \left(\text{DomesticDeposits}_{\text{Failure}} - \text{RecoveryValueofAssets}_{\text{Failure}} + \text{SecuredLiabilities}_{\text{Failure}}\right)$$

An end-of-quarter loss severity ratio is LGD divided by total domestic deposits at quarter-end and the loss severity measure for the scorecard is an average of end-of-period loss severity ratios for three most recent quarters.

[76 FR 10724, Feb. 25, 2011]