April 26, 2012

Jennifer J. Johnson
Secretary
Board of Governors of the Federal Reserve System
20th Street \& Constitution Avenue, N.W.
Washington, D.C. 20551
Docket No. R-1401
RIN 7100-AD61

Office of the Comptroller of the Currency 250 E Street, S.W.
Mail Stop 2-3
Washington, D.C. 20219
Docket ID OCC-2010-0003
RIN 1557-AC99

Robert E. Feldman
Executive Secretary
Federal Deposit Insurance Corporation
550 17th Street, N.W.
Washington, D.C. 20429
Attention: Comments/Legal ESS
RIN 3064-AD70

## Re: Risk-Based Capital Guidelines: Market Risk; Alternatives to Credit Ratings for Debt and Securitization Positions

Ladies and Gentlemen:

The American Securitization Forum ("ASF") is writing to provide additional information relevant to the joint notice of proposed rulemaking" (the "NPR" and, the proposed rule set forth therein, the "Proposed Rule") issued by the Board of Governors of the Federal Reserve System (the "Board"), the Federal Deposit Insurance Corporation (the "FDIC") and the Office of the Comptroller of the Currency (the "OCC," and together with the Board and FDIC, the "Agencies") to incorporate into their proposed market risk capital rules (the "Proposed MRC Rules") ${ }^{2}$ alternative methodologies for calculating specific risk capital requirements for debt and securitization positions that do not rely on credit ratings.

The ASF, The Clearing House Association L.L.C. ("The Clearing House"), The Financial Services Roundtable (the "FSR") and the International Swaps and Derivatives Association, Inc.

[^0][^1]("ISDA" and, together with ASF, The Clearing House and FSR, the "Associations") ${ }^{3}$ submitted an initial comment letter of February 7, 2012 (the "February 7 Letter") ${ }^{4}$ with respect to the Proposed Rule that included proposed modifications to the simplified supervisory formula approach (the "SSFA") for calculating risk-weighting factors for securitization positions under the Proposed Rule. Among other modifications, the February 7 Letter recommended that the capital requirement for a securitization position be calculated using a dynamic Kg based on (a) the weighted-average capital requirement of the performing underlying exposures (using initial Kg amounts provided in the letter), plus (b) the expected losses on seriously delinquent underlying exposures using loss severity data for the underlying exposures.

Appendix A hereto sets forth historical loss severity information for certain asset classes and asset class segments and industry recognized loss severity proxies for additional asset classes for which limited loss severity data is available. In Appendix B, we provide the source data for the RMBS and CMBS historical loss severities.

The ASF appreciates your consideration of the information set forth in this letter. ASF expects to provide the Agencies additional information relating to the modifications recommended in the February 7 Letter shortly. If you have any questions regarding this submission or need further information, please contact Tom Deutsch, ASF Executive Director, at 212.412 .7107 or at tdeutsch@americansecuritization.com.

Sincerely,


Tom Deutsch<br>Executive Director<br>American Securitization Forum

cc: Mr. Michael Gibson
Board of Governors of the Federal Reserve System
Ms. Anna Lee Hewko
Board of Governors of the Federal Reserve System
Mr. Thomas Boemio
Board of Governors of the Federal Reserve System
Mr. Dwight Smith
Board of Governors of the Federal Reserve System

[^2]Mr. Timothy Clark
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Mr. George E. French
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Mr. Robert Bean<br>Federal Deposit Insurance Corporation

Mr. Ryan Billingsley<br>Federal Deposit Insurance Corporation

Mr. Charles Taylor
Office of the Comptroller of the Currency
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Mr. Amrit Sekon
Office of the Comptroller of the Currency
Mr. Mark Ginsberg
Office of the Comptroller of the Currency
Hon. Mary Miller
United States Department of the Treasury
Hon. Cyrus Amir-Mokri
United States Department of the Treasury
Timothy Mohan, Esq.
Chapman and Cutler LLP

## Appendix A

## Severity and Recovery Rates by Asset Class

## Overall RMBS Severities



Source: Morgan Stanley
Observations: Average of 2,112 deals per month from January 2000 through March 2012

## RMBS Severities by Category



Source: Morgan Stanley
Observations: Average of 2,112 deals per month from January 2000 through March 2012

## American SECURIIIZATON <br> CMBS

## CMBS Severities



Source: Wells Fargo
Observations: From March 2001 through March 2012

FORUM. Prime and Subprime Autos

$$
\text { Severity \% = } 1 \text { - Recovery \% }
$$

## Prime and Subprime Auto Recoveries


$\rightarrow$-Prime Recovery $\rightarrow$ Subprime Recovery $\simeq$ Manheim Used Vehicle Value Index

Source: Moody's Weekly Credit Outlook: "Prime and Subprime Auto Loan and Recovery Rates Rebound" (August 24, 2009)

## FORUM. Corporate Loans (CLOs)

$$
\text { Severity \% = } 1 \text { - Recovery \% }
$$

## Corporate Loan Recoveries

Average Recoveries in Three Default Cycles

|  | Average Ultimate <br> Recovery (1987-2011) | Cycle 1 <br> $(1989-1992)$ | Cycle 2 <br> $(1999-2004)$ | Cycle 3 <br> $(2009-2010)$ |
| :--- | :---: | :---: | :---: | :---: |
| Leveraged Loans | $80.40 \%$ | $87.70 \%$ | $75.80 \%$ | $78.50 \%$ |

Corporate Loan Default Rates


Source: Moody's Investors Service: Annual Default Study: Corporate Default and Recovery Rates, 1920-2011 (February 29, 2012) Observations: Data is from Moody's Ultimate Recovery Database which includes robust detailed recovery information for over 4,750 loans and bonds from more than 1,000 North American corporate defaulters since 1987

Forum. Other Categories

| Asset Category | Severity \% |
| :--- | :---: |
| Consumer Unsecured $^{1}$ | $90.0 \%$ |
| Commercial Unsecured $^{2}$ | $51.5 \%$ |
| Other Secured | $50.0 \%$ |

1. With the exception of FFELP Student Loans, which would be assigned a severity of $3 \%$ due to the $97 \%$ government guarantee
2. Based on recovery rates of senior unsecured bonds documented in Moody's Investors Service: Annual Default Study: Corporate Default and Recovery Rates, 1920-2011 (February 29, 2012): Moody's Ultimate Recovery Database
Collateralized Bond Obligations (CBOs) would utilize a severity \% consistent with the commercial unsecured category


| Oct-04 | 16.83\% | 31.91\% | 1145 |
| :---: | :---: | :---: | :---: |
| Nov-04 | 16.45\% | 31.91\% | 1181 |
| Dec-04 | 16.36\% | 31.91\% | 1220 |
| Jan-05 | 15.68\% | 31.91\% | 1262 |
| Feb-05 | 13.91\% | 31.91\% | 1271 |
| Mar-05 | 14.81\% | 31.91\% | 1344 |
| Apr-05 | 15.23\% | 31.91\% | 1366 |
| May-05 | 15.28\% | 31.91\% | 1387 |
| Jun-05 | 13.85\% | 31.91\% | 1438 |
| Jul-05 | 14.54\% | 31.91\% | 1449 |
| Aug-05 | 13.14\% | 31.91\% | 1472 |
| Sep-05 | 13.59\% | 31.91\% | 1533 |
| Oct-05 | 14.07\% | 31.91\% | 1514 |
| Nov-05 | 13.99\% | 31.91\% | 1613 |
| Dec-05 | 14.35\% | 31.91\% | 1610 |
| Jan-06 | 13.01\% | 31.91\% | 1692 |
| Feb-06 | 14.57\% | 31.91\% | 1784 |
| Mar-06 | 14.20\% | 31.91\% | 1813 |
| Apr-06 | 14.07\% | 31.91\% | 1922 |
| May-06 | 14.67\% | 31.91\% | 1908 |
| Jun-06 | 13.64\% | 31.91\% | 2028 |
| Jul-06 | 14.78\% | 31.91\% | 2034 |
| Aug-06 | 15.12\% | 31.91\% | 2059 |
| Sep-06 | 14.09\% | 31.91\% | 2151 |
| Oct-06 | 15.97\% | 31.91\% | 2158 |
| Nov-06 | 15.27\% | 31.91\% | 2233 |
| Dec-06 | 15.23\% | 31.91\% | 2299 |
| Jan-07 | 16.23\% | 31.91\% | 2348 |
| Feb-07 | 15.29\% | 31.91\% | 2431 |
| Mar-07 | 16.03\% | 31.91\% | 2494 |
| Apr-07 | 19.54\% | 31.91\% | 2637 |
| May-07 | 20.44\% | 31.91\% | 2614 |
| Jun-07 | 20.91\% | 31.91\% | 2741 |
| Jul-07 | 22.14\% | 31.91\% | 2802 |
| Aug-07 | 23.50\% | 31.91\% | 2850 |
| Sep-07 | 27.22\% | 31.91\% | 2910 |
| Oct-07 | 30.22\% | 31.91\% | 2851 |
| Nov-07 | 32.42\% | 31.91\% | 2966 |
| Dec-07 | 33.18\% | 31.91\% | 2970 |
| Jan-08 | 36.87\% | 31.91\% | 3083 |
| Feb-08 | 39.23\% | 31.91\% | 3186 |
| Mar-08 | 40.81\% | 31.91\% | 3236 |
| Apr-08 | 42.79\% | 31.91\% | 3351 |
| May-08 | 44.41\% | 31.91\% | 3458 |
| Jun-08 | 46.27\% | 31.91\% | 3507 |
| Jul-08 | 47.33\% | 31.91\% | 3588 |
| Aug-08 | 49.24\% | 31.91\% | 3628 |
| Sep-08 | 51.04\% | 31.91\% | 3673 |
| Oct-08 | 52.60\% | 31.91\% | 3705 |
| Nov-08 | 54.64\% | 31.91\% | 3729 |
| Dec-08 | 56.34\% | 31.91\% | 3670 |
| Jan-09 | 58.65\% | 31.91\% | 3730 |
| Feb-09 | 61.17\% | 31.91\% | 3702 |
| Mar-09 | 61.71\% | 31.91\% | 3696 |
| Apr-09 | 63.36\% | 31.91\% | 3889 |
| May-09 | 64.10\% | 31.91\% | 3836 |
| Jun-09 | 63.48\% | 31.91\% | 3869 |
| Jul-09 | 62.42\% | 31.91\% | 3949 |
| Aug-09 | 62.27\% | 31.91\% | 3954 |
| Sep-09 | 61.56\% | 31.91\% | 3958 |
| Oct-09 | 61.06\% | 31.91\% | 3983 |
| Nov-09 | 60.53\% | 31.91\% | 3986 |
| Dec-09 | 59.52\% | 31.91\% | 3934 |


| Jan-10 | $58.91 \%$ | $31.91 \%$ | 3981 |
| :---: | :---: | :---: | :---: |
| Feb-10 | $59.90 \%$ | $31.91 \%$ | 3875 |
| Mar-10 | $59.38 \%$ | $31.91 \%$ | 3907 |
| Apr-10 | $58.93 \%$ | $31.91 \%$ | 4022 |
| May-10 | $59.07 \%$ | $31.91 \%$ | 4009 |
| Jun-10 | $58.00 \%$ | $31.91 \%$ | 3970 |
| Jul-10 | $58.00 \%$ | $31.91 \%$ | 3999 |
| Aug-10 | $58.45 \%$ | $31.91 \%$ | 3974 |
| Sep-10 | $59.68 \%$ | $31.91 \%$ | 3902 |
| Oct-10 | $60.06 \%$ | $31.91 \%$ | 3899 |
| Nov-10 | $60.18 \%$ | $31.91 \%$ | 3790 |
| Dec-10 | $60.52 \%$ | $31.91 \%$ | 3813 |
| Jan-11 | $62.08 \%$ | $31.91 \%$ | 3968 |
| Feb-11 | $62.43 \%$ | $31.91 \%$ | 3869 |
| Mar-11 | $62.49 \%$ | $31.91 \%$ | 3890 |
| Apr-11 | $61.87 \%$ | $31.91 \%$ | 4019 |
| May-11 | $62.18 \%$ | $31.91 \%$ | 3884 |
| Jun-11 | $61.80 \%$ | $31.91 \%$ | 3925 |
| Jul-11 | $61.91 \%$ | $31.91 \%$ | 3966 |
| Aug-11 | $63.17 \%$ | $31.91 \%$ | 3835 |
| Sep-11 | $64.03 \%$ | $31.91 \%$ | 3938 |
| Oct-11 | $63.85 \%$ | $31.91 \%$ | 3811 |
| Nov-11 | $64.72 \%$ | $31.91 \%$ | 3789 |
| Dec-11 | $63.26 \%$ | $31.91 \%$ | 3844 |
| Jan-12 | $64.85 \%$ | $31.91 \%$ | 3857 |
| Feb-12 | $65.28 \%$ | $31.91 \%$ | 3842 |
| Mar-12 | $65.63 \%$ | $31.91 \%$ | 3902 |



| Date | Prime RMbs | Prime RMBS Avg | Alt-ARMBS | Alt-ARMBS Avg | Subprime RMBS | Subprime RMBS Avg | Number of Deals |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Jan-00 | 11.27\% | 15.93\% | 9.31\% | 23.83\% | 24.78\% | 36.50\% | 367 |
| Feb-00 | 8.03\% | 15.93\% | 17.14\% | 23.83\% | 24.46\% | 36.50\% | 379 |
| Mar-00 | 8.31\% | 15.93\% | 10.58\% | 23.83\% | 23.93\% | 36.50\% | 350 |
| Apr-00 | 5.63\% | 15.93\% | 8.24\% | 23.83\% | 23.29\% | 36.50\% | 419 |
| May-00 | 9.30\% | 15.93\% | 12.89\% | 23.83\% | 21.62\% | 36.50\% | 394 |
| Jun-00 | 8.70\% | 15.93\% | 5.71\% | 23.83\% | 23.54\% | 36.50\% | 412 |
| Jul-00 | 8.64\% | 15.93\% | 12.93\% | 23.83\% | 21.83\% | 36.50\% | 414 |
| Aug-00 | 7.29\% | 15.93\% | 8.60\% | 23.83\% | 22.03\% | 36.50\% | 398 |
| Sep-00 | 6.80\% | 15.93\% | 12.95\% | 23.83\% | 25.54\% | 36.50\% | 422 |
| Oct-00 | 8.44\% | 15.93\% | 8.02\% | 23.83\% | 22.63\% | 36.50\% | 414 |
| Nov-00 | 9.84\% | 15.93\% | 10.68\% | 23.83\% | 23.29\% | 36.50\% | 432 |
| Dec-00 | 8.09\% | 15.93\% | 8.83\% | 23.83\% | 24.63\% | 36.50\% | 441 |
| Jan-01 | 8.48\% | 15.93\% | 9.24\% | 23.83\% | 24.00\% | 36.50\% | 440 |
| Feb-01 | 4.57\% | 15.93\% | 9.80\% | 23.83\% | 20.49\% | 36.50\% | 448 |
| Mar-01 | 8.85\% | 15.93\% | 7.72\% | 23.83\% | 22.33\% | 36.50\% | 450 |
| Apr-01 | 2.13\% | 15.93\% | 4.28\% | 23.83\% | 23.07\% | 36.50\% | 473 |
| May-01 | 5.61\% | 15.93\% | 14.38\% | 23.83\% | 23.52\% | 36.50\% | 460 |
| Jun-01 | 8.55\% | 15.93\% | 10.51\% | 23.83\% | 23.47\% | 36.50\% | 507 |
| Jul-01 | 4.60\% | 15.93\% | 12.76\% | 23.83\% | 21.71\% | 36.50\% | 474 |
| Aug-01 | 8.28\% | 15.93\% | 5.77\% | 23.83\% | 21.40\% | 36.50\% | 505 |
| Sep-01 | 5.59\% | 15.93\% | 9.27\% | 23.83\% | 18.75\% | 36.50\% | 545 |
| Oct-01 | 3.94\% | 15.93\% | 8.93\% | 23.83\% | 24.54\% | 36.50\% | 525 |
| Nov-01 | 6.63\% | 15.93\% | 9.06\% | 23.83\% | 18.94\% | 36.50\% | 548 |
| Dec.01 | 6.04\% | 15.93\% | 7.96\% | 23.83\% | 22.70\% | 36.50\% | 568 |
| Jan-02 | 4.04\% | 15.93\% | 7.77\% | 23.83\% | 21.24\% | 36.50\% | 570 |
| Feb-02 | 3.46\% | 15.93\% | 4.53\% | 23.83\% | 21.60\% | 36.50\% | 593 |
| Mar-02 | 6.12\% | 15.93\% | 8.28\% | 23.83\% | 26.25\% | 36.50\% | 606 |
| Apr-02 | 6.78\% | 15.93\% | 8.40\% | 23.83\% | 22.60\% | 36.50\% | 699 |
| May-02 | 4.11\% | 15.93\% | 6.62\% | 23.83\% | 19.58\% | 36.50\% | 685 |
| Jun-02 | 3.40\% | 15.93\% | 6.50\% | 23.83\% | 21.88\% | 36.50\% | 694 |
| Jul-02 | 3.85\% | 15.93\% | 10.97\% | 23.83\% | 21.87\% | 36.50\% | 680 |
| Aug-02 | 2.78\% | 15.93\% | 9.23\% | 23.83\% | 20.87\% | 36.50\% | 715 |
| Sep-02 | 3.31\% | 15.93\% | 8.44\% | 23.83\% | 20.63\% | 36.50\% | ${ }^{721}$ |
| Oct-02 | 5.06\% | 15.93\% | 6.30\% | 23.83\% | 20.50\% | 36.50\% | 702 |
| Nov-02 | 2.93\% | 15.93\% | 7.47\% | 23.83\% | 23.35\% | 36.50\% | 721 |
| Dec.02 | 2.11\% | 15.93\% | 9.21\% | 23.83\% | 22.78\% | 36.50\% | ${ }^{73}$ |
| Jan-03 | 1.71\% | 15.93\% | 5.89\% | 23.83\% | 20.96\% | 36.50\% | 763 |
| Feb-03 | 3.68\% | 15.93\% | 7.65\% | 23.83\% | 23.83\% | 36.50\% | 819 |
| Mar-03 | 3.53\% | 15.93\% | 8.41\% | 23.83\% | 22.56\% | 36.50\% | 800 |
| Apr-03 | 2.89\% | 15.93\% | 8.81\% | 23.83\% | 22.19\% | 36.50\% | 836 |
| May-03 | 4.01\% | 15.93\% | 7.66\% | 23.83\% | 21.65\% | 36.50\% | 878 |
| Jun-03 | 3.15\% | 15.93\% | 5.58\% | 23.83\% | 22.11\% | 36.50\% | 892 |
| Jul-03 | 3.43\% | 15.93\% | 5.86\% | 23.83\% | 19.42\% | 36.50\% | 933 |
| Aug.03 | 3.53\% | 15.93\% | 5.33\% | 23.83\% | 19.01\% | 36.50\% | 915 |
| Sep-03 | 2.74\% | 15.93\% | 3.42\% | 23.83\% | 21.79\% | 36.50\% | 924 |
| Oct-03 | 1.93\% | 15.93\% | 6.15\% | 23.83\% | 19.01\% | 36.50\% | 963 |
| Nov-03 | 1.55\% | 15.93\% | 7.59\% | 23.83\% | 17.92\% | 36.50\% | 1029 |
| Dec.03 | 4.26\% | 15.93\% | 6.47\% | 23.83\% | 19.30\% | 36.50\% | 975 |
| Jan-04 | 1.71\% | 15.93\% | 7.55\% | 23.83\% | 17.31\% | 36.50\% | 984 |
| Feb-04 | 2.53\% | 15.93\% | 5.81\% | 23.83\% | 18.67\% | 36.50\% | 963 |
| Mar-04 | 1.48\% | 15.93\% | 6.27\% | 23.83\% | 18.36\% | 36.50\% | 1059 |
| Apr-04 | 1.63\% | 15.93\% | 5.69\% | 23.83\% | 18.39\% | 36.50\% | 1047 |
| May-04 | 3.91\% | 15.93\% | 6.72\% | 23.83\% | 18.39\% | 36.50\% | 1089 |
| Jun-04 | 3.20\% | 15.93\% | 6.80\% | 23.83\% | 19.05\% | 36.50\% | 1115 |
| Jul-04 | 1.79\% | 15.93\% | 6.00\% | 23.83\% | 19.47\% | 36.50\% | 1095 |
| Aug-04 | 2.45\% | 15.93\% | 6.02\% | 23.83\% | 18.62\% | 36.50\% | 1084 |
| Sep-04 | 1.59\% | 15.93\% | 5.64\% | 23.83\% | 18.89\% | 36.50\% | 1135 |
| Oct-04 | 5.23\% | 15.93\% | 6.57\% | 23.83\% | 18.44\% | 36.50\% | 1145 |
| Nov-04 | 3.25\% | 15.93\% | 5.58\% | 23.83\% | 18.66\% | 36.50\% | 1181 |
| Dec-04 | 1.45\% | 15.93\% | 6.98\% | 23.83\% | 18.05\% | 36.50\% | 1220 |
| Jan-05 | 2.08\% | 15.93\% | 6.89\% | 23.83\% | 17.25\% | 36.50\% | 1262 |
| Feb-05 | 2.90\% | 15.93\% | 8.13\% | 23.83\% | 14.87\% | 36.50\% | 1271 |
| Mar-05 | 3.42\% | 15.93\% | 7.50\% | 23.83\% | 16.01\% | 36.50\% | 1344 |
| Apr-05 | 8.90\% | 15.93\% | 9.12\% | 23.83\% | 16.16\% | 36.50\% | 1366 |
| May-05 | 2.48\% | 15.93\% | 7.66\% | 23.83\% | 16.66\% | 36.50\% | 1387 |
| Jun-05 | 5.60\% | 15.93\% | 6.26\% | 23.83\% | 15.18\% | 36.50\% | 1438 |
| Jul-05 | 2.87\% | 15.93\% | 8.19\% | 23.83\% | 15.65\% | 36.50\% | 1449 |
| Aug-05 | 4.29\% | 15.93\% | 7.94\% | 23.83\% | 13.94\% | 36.50\% | 1472 |
| Sep-05 | 5.34\% | 15.93\% | 7.17\% | 23.83\% | 14.44\% | 36.50\% | 1533 |
| Oct-05 | 7.49\% | 15.93\% | 8.30\% | 23.83\% | 14.83\% | 36.50\% | 1514 |
| Nov-05 | 3.84\% | 15.93\% | 7.37\% | 23.83\% | 14.90\% | 36.50\% | 1613 |
| Dec.05 | 3.65\% | 15.93\% | 7.54\% | 23.83\% | 15.35\% | 36.50\% | 1610 |
| Jan-06 | 4.65\% | 15.93\% | 6.31\% | 23.83\% | 13.85\% | 36.50\% | 1692 |
| Feb-06 | 5.61\% | 15.93\% | 6.70\% | 23.83\% | 15.67\% | 36.50\% | 1784 |
| Mar-06 | 4.95\% | 15.93\% | 7.04\% | 23.83\% | 15.22\% | 36.50\% | 1813 |
| Apr-06 | 4.00\% | 15.93\% | 6.75\% | 23.83\% | 15.10\% | 36.50\% | 1922 |
| May-06 | 6.18\% | 15.93\% | 6.53\% | 23.83\% | 15.86\% | 36.50\% | 1908 |
| Jun-06 | 3.95\% | 15.93\% | 7.35\% | 23.83\% | 14.61\% | 36.50\% | 2028 |
| Jul-06 | 6.98\% | 15.93\% | 7.29\% | 23.83\% | 15.91\% | 36.50\% | 2034 |
| Aug-06 | 6.69\% | 15.93\% | 7.67\% | 23.83\% | 16.27\% | 36.50\% | 2059 |
| Sep-06 | 8.11\% | 15.93\% | 5.96\% | 23.83\% | 15.23\% | 36.50\% | 2151 |
| Oct-06 | 8.26\% | 15.93\% | 6.80\% | 23.83\% | 17.35\% | 36.50\% | 2158 |
| Nov-06 | 8.90\% | 15.93\% | 9.94\% | 23.83\% | 16.22\% | 36.50\% | 2233 |
| Dec.06 | 6.16\% | 15.93\% | 6.95\% | 23.83\% | 16.70\% | 36.50\% | 2299 |
| Jan-07 | 5.42\% | 15.93\% | 6.05\% | 23.83\% | 18.48\% | 36.50\% | 2348 |
| Feb-07 | 3.85\% | 15.93\% | 7.16\% | 23.83\% | 16.81\% | 36.50\% | 2431 |
| Mar-07 | 6.48\% | 15.93\% | 6.70\% | 23.83\% | 17.91\% | 36.50\% | 2494 |
| Apr-07 | 8.71\% | 15.93\% | 8.16\% | 23.83\% | 22.14\% | 36.50\% | 2637 |
| May-07 | 6.58\% | 15.93\% | 8.69\% | 23.83\% | 23.27\% | 36.50\% | 2614 |
| Jun-07 | 7.17\% | 15.93\% | 8.32\% | 23.83\% | 24.39\% | 36.50\% | 2741 |
|  | 5.55\% | 15.93\% | 10.99\% | 23.83\% | 25.61\% | 36.50\% | 2802 |


| Aug.07 | 6.49\% | 15.93\% | 13.29\% | 23.83\% | 26.13\% | 36.50\% | 2850 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sep-07 | 9.58\% | 15.93\% | 15.99\% | 23.83\% | 30.44\% | 36.50\% | 2910 |
| Oct-07 | 13.51\% | 15.93\% | 17.34\% | 23.83\% | 33.97\% | 36.50\% | 2851 |
| Nov-07 | 9.44\% | 15.93\% | 20.94\% | 23.83\% | 35.83\% | 36.50\% | 2966 |
| Dec-07 | 12.44\% | 15.93\% | 21.19\% | 23.83\% | 37.16\% | 36.50\% | 2970 |
| Jan-08 | 12.82\% | 15.93\% | 26.68\% | 23.83\% | 40.22\% | 36.50\% | 3083 |
| Feb-08 | 17.79\% | 15.93\% | 29.59\% | 23.83\% | 42.98\% | 36.50\% | 3186 |
| Mar-08 | 18.06\% | 15.93\% | 30.08\% | 23.83\% | 44.79\% | 36.50\% | 3236 |
| Apr-08 | 16.92\% | 15.93\% | 33.68\% | 23.83\% | 46.50\% | 36.50\% | 3351 |
| May-08 | 17.37\% | 15.93\% | 35.57\% | 23.83\% | 48.26\% | 36.50\% | 3458 |
| Jun-08 | 22.07\% | 15.93\% | 38.25\% | 23.83\% | 49.98\% | 36.50\% | 3507 |
| Jul-08 | 24.13\% | 15.93\% | 39.68\% | 23.83\% | 51.34\% | 36.50\% | 3588 |
| Aug-08 | 26.65\% | 15.93\% | 41.50\% | 23.83\% | 53.58\% | 36.50\% | 3628 |
| Sep-08 | 26.80\% | 15.93\% | 43.81\% | 23.83\% | 55.33\% | 36.50\% | 3673 |
| Oct-08 | 28.14\% | 15.93\% | 45.29\% | 23.83\% | 57.10\% | 36.50\% | 3705 |
| Nov-08 | 29.21\% | 15.93\% | 47.00\% | 23.83\% | 59.56\% | 36.50\% | 3729 |
| Dec-08 | 31.56\% | 15.93\% | 49.37\% | 23.83\% | 61.19\% | 36.50\% | 3670 |
| Jan-09 | 34.80\% | 15.93\% | 51.43\% | 23.83\% | 63.87\% | 36.50\% | 3730 |
| Feb-09 | 34.74\% | 15.93\% | 53.75\% | 23.83\% | 66.99\% | 36.50\% | 3702 |
| Mar-09 | 38.03\% | 15.93\% | 54.19\% | 23.83\% | 67.98\% | 36.50\% | 3696 |
| Apr-09 | 38.80\% | 15.93\% | 56.16\% | 23.83\% | 69.74\% | 36.50\% | 3889 |
| May-09 | 39.56\% | 15.93\% | 57.71\% | 23.83\% | 70.46\% | 36.50\% | 3836 |
| Jun-09 | 39.94\% | 15.93\% | 57.17\% | 23.83\% | 70.52\% | 36.50\% | 3869 |
| Jul-09 | 38.96\% | 15.93\% | 56.73\% | 23.83\% | 69.61\% | 36.50\% | 3949 |
| Aug-09 | 38.56\% | 15.93\% | 56.95\% | 23.83\% | 69.49\% | 36.50\% | 3954 |
| Sep-09 | 40.57\% | 15.93\% | 56.43\% | 23.83\% | 69.44\% | 36.50\% | 3958 |
| Oct-09 | 40.45\% | 15.93\% | 56.33\% | 23.83\% | 69.31\% | 36.50\% | 3983 |
| Nov-09 | 39.19\% | 15.93\% | 56.29\% | 23.83\% | 68.85\% | 36.50\% | 3986 |
| Dec-09 | 36.54\% | 15.93\% | 55.64\% | 23.83\% | 68.02\% | 36.50\% | 3934 |
| Jan-10 | 37.35\% | 15.93\% | 55.31\% | 23.83\% | 67.33\% | 36.50\% | 3981 |
| Feb-10 | 39.09\% | 15.93\% | 56.05\% | 23.83\% | 69.09\% | 36.50\% | 3875 |
| Mar-10 | 39.67\% | 15.93\% | 55.52\% | 23.83\% | 68.21\% | 36.50\% | 3907 |
| Apr-10 | 37.93\% | 15.93\% | 54.77\% | 23.83\% | 68.55\% | 36.50\% | 4022 |
| May-10 | 38.17\% | 15.93\% | 55.80\% | 23.83\% | 67.81\% | 36.50\% | 4009 |
| Jun-10 | 37.71\% | 15.93\% | 55.33\% | 23.83\% | 67.05\% | 36.50\% | 3970 |
| Jul-10 | 38.21\% | 15.93\% | 54.90\% | 23.83\% | 68.23\% | 36.50\% | 3999 |
| Aug-10 | 37.69\% | 15.93\% | 54.94\% | 23.83\% | 70.28\% | 36.50\% | 3974 |
| Sep-10 | 38.08\% | 15.93\% | 56.27\% | 23.83\% | 70.31\% | 36.50\% | 3902 |
| Oct-10 | 39.14\% | 15.93\% | 56.30\% | 23.83\% | 71.35\% | 36.50\% | 3899 |
| Nov-10 | 40.13\% | 15.93\% | 57.09\% | 23.83\% | 71.68\% | 36.50\% | 3790 |
| Dec-10 | 39.78\% | 15.93\% | 57.21\% | 23.83\% | 72.24\% | 36.50\% | 3813 |
| Jan-11 | 41.29\% | 15.93\% | 58.03\% | 23.83\% | 74.19\% | 36.50\% | 3968 |
| Feb-11 | 42.03\% | 15.93\% | 58.88\% | 23.83\% | 74.34\% | 36.50\% | 3869 |
| Mar-11 | 43.31\% | 15.93\% | 58.71\% | 23.83\% | 74.78\% | 36.50\% | 3890 |
| Apr-11 | 41.29\% | 15.93\% | 58.20\% | 23.83\% | 74.87\% | 36.50\% | 4019 |
| May-11 | 41.71\% | 15.93\% | 58.60\% | 23.83\% | 74.89\% | 36.50\% | 3884 |
| Jun-11 | 41.23\% | 15.93\% | 58.15\% | 23.83\% | 74.63\% | 36.50\% | 3925 |
| Jul-11 | 40.30\% | 15.93\% | 58.65\% | 23.83\% | 74.81\% | 36.50\% | 3966 |
| Aug-11 | 42.91\% | 15.93\% | 59.92\% | 23.83\% | 74.69\% | 36.50\% | 3835 |
| Sep-11 | 41.81\% | 15.93\% | 60.69\% | 23.83\% | 75.97\% | 36.50\% | 3938 |
| Oct-11 | 43.03\% | 15.93\% | 60.44\% | 23.83\% | 75.68\% | 36.50\% | 3811 |
| Nov-11 | 42.62\% | 15.93\% | 61.17\% | 23.83\% | 77.02\% | 36.50\% | 3789 |
| Dec-11 | 42.38\% | 15.93\% | 60.47\% | 23.83\% | 75.55\% | 36.50\% | 3844 |
| Jan-12 | 43.58\% | 15.93\% | 62.06\% | 23.83\% | 75.96\% | 36.50\% | 3857 |
| Feb-12 | 45.30\% | 15.93\% | 61.82\% | 23.83\% | 77.18\% | 36.50\% | 3842 |
| Mar-12 | 43.88\% | 15.93\% | 62.33\% | 23.83\% | 77.34\% | 36.50\% | 3902 |



## CMBS Severity

| Date | 6-Month | Average |
| :---: | :---: | :---: |
| Mar-01 | 32.20\% | 35.94\% |
| Apr-01 | 36.15\% | 35.94\% |
| May-01 | 47.56\% | 35.94\% |
| Jun-01 | 45.93\% | 35.94\% |
| Jul-01 | 45.98\% | 35.94\% |
| Aug-01 | 44.64\% | 35.94\% |
| Sep-01 | 40.60\% | 35.94\% |
| Oct-01 | 44.19\% | 35.94\% |
| Nov-01 | 42.25\% | 35.94\% |
| Dec-01 | 41.91\% | 35.94\% |
| Jan-02 | 37.82\% | 35.94\% |
| Feb-02 | 40.49\% | 35.94\% |
| Mar-02 | 45.12\% | 35.94\% |
| Apr-02 | 42.10\% | 35.94\% |
| May-02 | 46.05\% | 35.94\% |
| Jun-02 | 46.30\% | 35.94\% |
| Jul-02 | 48.36\% | 35.94\% |
| Aug-02 | 48.62\% | 35.94\% |
| Sep-02 | 42.92\% | 35.94\% |
| Oct-02 | 44.82\% | 35.94\% |
| Nov-02 | 43.50\% | 35.94\% |
| Dec-02 | 44.80\% | 35.94\% |
| Jan-03 | 49.32\% | 35.94\% |
| Feb-03 | 50.35\% | 35.94\% |
| Mar-03 | 54.10\% | 35.94\% |
| Apr-03 | 53.69\% | 35.94\% |
| May-03 | 55.75\% | 35.94\% |
| Jun-03 | 53.18\% | 35.94\% |
| Jul-03 | 50.71\% | 35.94\% |
| Aug-03 | 46.79\% | 35.94\% |
| Sep-03 | 45.05\% | 35.94\% |
| Oct-03 | 46.18\% | 35.94\% |
| Nov-03 | 44.37\% | 35.94\% |
| Dec-03 | 46.64\% | 35.94\% |
| Jan-04 | 39.27\% | 35.94\% |
| Feb-04 | 41.79\% | 35.94\% |
| Mar-04 | 41.85\% | 35.94\% |
| Apr-04 | 48.85\% | 35.94\% |
| May-04 | 45.75\% | 35.94\% |
| Jun-04 | 42.64\% | 35.94\% |
| Jul-04 | 40.05\% | 35.94\% |
| Aug-04 | 38.07\% | 35.94\% |
| Sep-04 | 37.09\% | 35.94\% |
| Oct-04 | 30.35\% | 35.94\% |
| Nov-04 | 30.24\% | 35.94\% |
| Dec-04 | 30.26\% | 35.94\% |
| Jan-05 | 33.99\% | 35.94\% |
| Feb-05 | 33.02\% | 35.94\% |
| Mar-05 | 32.06\% | 35.94\% |
| Apr-05 | 31.86\% | 35.94\% |
| May-05 | 32.56\% | 35.94\% |
| Jun-05 | 31.36\% | 35.94\% |
| Jul-05 | 28.87\% | 35.94\% |
| Aug-05 | 27.03\% | 35.94\% |


| Sep-05 | 27.93\% | 35.94\% |
| :---: | :---: | :---: |
| Oct-05 | 27.61\% | 35.94\% |
| Nov-05 | 24.54\% | 35.94\% |
| Dec-05 | 24.50\% | 35.94\% |
| Jan-06 | 26.09\% | 35.94\% |
| Feb-06 | 28.32\% | 35.94\% |
| Mar-06 | 27.54\% | 35.94\% |
| Apr-06 | 27.55\% | 35.94\% |
| May-06 | 30.20\% | 35.94\% |
| Jun-06 | 28.41\% | 35.94\% |
| Jul-06 | 27.71\% | 35.94\% |
| Aug-06 | 23.21\% | 35.94\% |
| Sep-06 | 23.81\% | 35.94\% |
| Oct-06 | 23.11\% | 35.94\% |
| Nov-06 | 23.50\% | 35.94\% |
| Dec-06 | 26.21\% | 35.94\% |
| Jan-07 | 26.24\% | 35.94\% |
| Feb-07 | 30.92\% | 35.94\% |
| Mar-07 | 32.69\% | 35.94\% |
| Apr-07 | 33.45\% | 35.94\% |
| May-07 | 33.14\% | 35.94\% |
| Jun-07 | 33.28\% | 35.94\% |
| Jul-07 | 35.93\% | 35.94\% |
| Aug-07 | 31.62\% | 35.94\% |
| Sep-07 | 28.60\% | 35.94\% |
| Oct-07 | 28.65\% | 35.94\% |
| Nov-07 | 30.55\% | 35.94\% |
| Dec-07 | 27.27\% | 35.94\% |
| Jan-08 | 25.12\% | 35.94\% |
| Feb-08 | 26.33\% | 35.94\% |
| Mar-08 | 25.34\% | 35.94\% |
| Apr-08 | 25.77\% | 35.94\% |
| May-08 | 23.15\% | 35.94\% |
| Jun-08 | 20.76\% | 35.94\% |
| Jul-08 | 21.40\% | 35.94\% |
| Aug-08 | 20.65\% | 35.94\% |
| Sep-08 | 18.43\% | 35.94\% |
| Oct-08 | 16.20\% | 35.94\% |
| Nov-08 | 15.79\% | 35.94\% |
| Dec-08 | 20.28\% | 35.94\% |
| Jan-09 | 19.89\% | 35.94\% |
| Feb-09 | 20.97\% | 35.94\% |
| Mar-09 | 24.60\% | 35.94\% |
| Apr-09 | 27.97\% | 35.94\% |
| May-09 | 32.89\% | 35.94\% |
| Jun-09 | 30.02\% | 35.94\% |
| Jul-09 | 28.95\% | 35.94\% |
| Aug-09 | 28.38\% | 35.94\% |
| Sep-09 | 33.24\% | 35.94\% |
| Oct-09 | 35.78\% | 35.94\% |
| Nov-09 | 37.30\% | 35.94\% |
| Dec-09 | 37.93\% | 35.94\% |
| Jan-10 | 39.46\% | 35.94\% |
| Feb-10 | 37.85\% | 35.94\% |
| Mar-10 | 36.04\% | 35.94\% |
| Apr-10 | 36.77\% | 35.94\% |
| May-10 | 36.62\% | 35.94\% |
| Jun-10 | 40.18\% | 35.94\% |


| Jul-10 | $42.84 \%$ | $35.94 \%$ |
| :---: | :---: | :---: |
| Aug-10 | $46.18 \%$ | $35.94 \%$ |
| Sep-10 | $46.44 \%$ | $35.94 \%$ |
| Oct-10 | $46.53 \%$ | $35.94 \%$ |
| Nov-10 | $46.77 \%$ | $35.94 \%$ |
| Dec-10 | $45.41 \%$ | $35.94 \%$ |
| Jan-11 | $41.87 \%$ | $35.94 \%$ |
| Feb-11 | $39.10 \%$ | $35.94 \%$ |
| Mar-11 | $35.88 \%$ | $35.94 \%$ |
| Apr-11 | $36.11 \%$ | $35.94 \%$ |
| May-11 | $37.10 \%$ | $35.94 \%$ |
| Jun-11 | $36.81 \%$ | $35.94 \%$ |
| Jul-11 | $38.36 \%$ | $35.94 \%$ |
| Aug-11 | $39.96 \%$ | $35.94 \%$ |
| Sep-11 | $43.77 \%$ | $35.94 \%$ |
| Oct-11 | $43.74 \%$ | $35.94 \%$ |
| Nov-11 | $43.61 \%$ | $35.94 \%$ |
| Dec-11 | $44.42 \%$ | $35.94 \%$ |
| Jan-12 | $43.44 \%$ | $35.94 \%$ |
| Feb-12 | $40.10 \%$ | $35.94 \%$ |
| Mar-12 | $39.97 \%$ | $35.94 \%$ |




[^0]:    176 Fed. Reg. 79380 (Dec. 21, 2011).
    276 Fed. Reg. 1890 (Jan. 11, 2011) (proposed revisions to market risk capital rules).

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[^2]:    ${ }^{3}$ The Associations collectively represent financial institutions accounting for a substantial majority of banking and financial assets in the United States.
    ${ }^{4}$ See http://www.americansecuritization.com/uploadedFiles/ASF_Joint_Market_Risk_Comment_Letter_2-7-12.pdf.

