

# Bank of America



## **Pillar 3 Regulatory Capital Disclosures** **Advanced Approaches**

For the quarter ended September 30, 2016

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### **Important Presentation Information**

These disclosures are required by regulatory capital rules set out by the Office of the Comptroller of the Currency, the Board of Governors of the Federal Reserve System (Federal Reserve), and the Federal Deposit Insurance Corporation (FDIC) (collectively, U.S. banking regulators) in alignment with the Basel 3 regulatory capital framework. These disclosures provide qualitative and quantitative information about regulatory capital and risk-weighted assets (RWA) on a transition basis for the Advanced approaches, and should be read in conjunction with our Form 10-Q for the period ended September 30, 2016, the Corporation’s Current Report on Form 8-K filed on November 1, 2016 (November 1, 2016 8-K), the Consolidated Financial Statements for Bank Holding Companies – FR Y-9C for the period ended September 30, 2016, the Market Risk Regulatory Report for Institutions Subject to the Market Risk Capital Rule – FFIEC 102 for the period ended September 30, 2016 and the Regulatory Reporting for Institutions Subject to the Advanced Capital Adequacy Framework – FFIEC 101 for the period ended September 30, 2016.

The Corporation’s Pillar 3 disclosures may include some financial information that has not been prepared under generally accepted accounting principles in the United States of America (GAAP). Certain information contained in the Pillar 3 disclosures is prepared pursuant to instructions in the U.S. Basel 3 Final Rule (Basel 3).

Bank of America – Pillar 3 Regulatory Capital Disclosures

U.S. banking regulators permit certain Pillar 3 disclosure requirements to be addressed by their inclusion in the Consolidated Financial Statements of the Corporation. In such instances, incorporation into this report is made by reference to the relevant section(s) of the most recent Forms 10-Q and November 1, 2016 8-K filed with the Securities and Exchange Commission (SEC) of the United States. This Pillar 3 report should be read in conjunction with the aforementioned reports as information regarding regulatory capital and risk management is largely contained in those filings. The table below indicates the location of such disclosures.

**DISCLOSURE MAP**

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## SCOPE OF APPLICATION

### Corporate Overview

Bank of America Corporation (together, with its consolidated subsidiaries, Bank of America, we or us) is a Delaware corporation, a bank holding company (BHC) and a financial holding company. When used in this report, “the Corporation” may refer to Bank of America Corporation individually, Bank of America Corporation and its subsidiaries or certain of Bank of America Corporation’s subsidiaries or affiliates. Bank of America is one of the world’s largest financial institutions, serving individual consumers, small- and middle-market businesses, institutional investors, large corporations and governments with a full range of banking, investing, asset management and other financial and risk management products and services. Our principal executive offices are located in the Bank of America Corporate Center, 100 North Tryon Street, Charlotte, North Carolina 28255.

### Principles of Consolidation and Basis of Presentation

The Consolidated Financial Statements include the accounts of the Corporation and its majority-owned subsidiaries, and those variable interest entities (VIEs) where the Corporation is the primary beneficiary. Intercompany accounts and transactions have been eliminated. Results of operations of acquired companies are included from the dates of acquisition and for VIEs, from the dates that the Corporation became the primary beneficiary. Assets held in an agency or fiduciary capacity are not included in the Consolidated Financial Statements. The Corporation accounts for investments in companies for which it owns a voting interest and for which it has the ability to exercise significant influence over operating and financing decisions using the equity method of accounting. These investments are included in other assets. Equity method investments are subject to impairment testing and the Corporation’s proportionate share of income or loss is included in other income.

The preparation of the Consolidated Financial Statements in conformity with GAAP requires management to make estimates and assumptions that affect reported amounts and disclosures. Realized results could differ from those estimates and assumptions. For additional information, refer to *Note 1 – Summary of Significant Accounting Principles* in the September 30, 2016 Form 10-Q and November 1, 2016 8-K.

### Basel 3 Regulatory Capital Standards and Disclosures

Basel 3 is a global regulatory capital framework developed by the Basel Committee on Banking Supervision. Basel 3 is composed of three parts, or pillars. Pillar 1 addresses capital adequacy and provides minimum capital requirements. Pillar 2 requires supervisory review of capital adequacy assessments and strategies. Pillar 3 promotes market discipline through prescribed regulatory public disclosures on capital structure, capital adequacy and RWA.

On January 1, 2014, the Corporation and its affiliates became subject to Basel 3, which includes certain transition provisions through January 1, 2019. The Corporation and its primary affiliated banking entity, Bank of America, National Association (BANA), are Advanced approaches institutions under Basel 3. Basel 3 updated the composition of capital and established a Common equity tier 1 capital ratio. Common equity tier 1 capital primarily includes common stock, retained earnings and accumulated other comprehensive income (AOCI). Basel 3 revised minimum capital ratios and buffer requirements, added a supplementary leverage ratio (SLR) and addressed the adequately capitalized minimum requirements under the Prompt Corrective Action (PCA) framework. Finally, Basel 3 established two methods of calculating RWA, the Standardized approach and the Advanced approaches. The composition of regulatory capital under Basel 3 is subject to transition rules described in *Capital Management* within the Management Discussion & Analysis (MD&A) section in the November 1, 2016 8-K.

Basel 3 also requires Advanced approaches institutions to disclose a SLR. The numerator of the SLR is quarter-end Basel 3 Tier 1 capital reflective of Basel 3 numerator transition provisions. The denominator is total leverage exposure based on the daily average of the sum of on-balance sheet exposures less permitted Tier 1 deductions, as well as the simple average of certain off-balance sheet exposures, as of the end of each month in a quarter.

As an Advanced approaches institution, the Corporation is required to report regulatory risk-based capital ratios and RWA under both the Standardized and Advanced approaches. The approach that yields the lower ratio is used to assess capital adequacy including under the PCA framework.

Information contained in this report is presented in accordance with the Basel 3 rules for RWA and capital measurement under the Advanced approaches (Basel 3 Advanced – Transition), and follows the Pillar 3 disclosure requirements for the quantitative and qualitative presentation of data. Information presented herein may differ from similar information presented in the Consolidated Financial Statements and other publicly available disclosures. Unless specified otherwise, all amounts and information are presented in conformity with the definitions, rules and requirements of Basel 3. For additional information on Basel 3 and management of the

Corporation's regulatory capital, refer to *Capital Management* within the MD&A section in the September 30, 2016 Form 10-Q and November 1, 2016 8-K and *Note 16 – Regulatory Requirements and Restrictions* in the November 1, 2016 8-K.

## CAPITAL STRUCTURE

Under Basel 3, Total capital consists of two tiers of capital, Tier 1 and Tier 2. Tier 1 capital is further composed of Common equity tier 1 capital and additional tier 1 capital. Common equity tier 1 capital primarily includes common stock, retained earnings and AOCI. Goodwill, disallowed intangible assets, and certain deferred tax assets are excluded from Common equity tier 1 capital. Additional tier 1 capital primarily includes qualifying non-cumulative preferred stock. Certain deferred tax assets are also excluded from additional Tier 1. Tier 2 capital primarily consists of qualifying subordinated debt, a limited portion of eligible credit reserves, and trust preferred securities (Trust Securities) subject to phase-out. The Corporation's Total capital is the sum of Tier 1 capital and Tier 2 capital. For additional information on the composition of regulatory capital, including regulatory adjustments and deductions, refer to *Capital Management* within the MD&A section in the September 30, 2016 Form 10-Q and the November 1, 2016 8-K.

The following table presents the capital composition as measured under Basel 3 Advanced – Transition as of September 30, 2016.

<b>Table 1 - Capital Composition under Basel 3 Advanced – Transition</b>	September 30, 2016
<i>(Dollars in millions)</i>	
Total common shareholders' equity	\$ 244,863
Goodwill	(69,192)
Deferred tax assets arising from net operating loss and tax credit carryforwards	(4,715)
Unamortized net periodic benefit costs recorded in accumulated OCI, net-of-tax	1,171
Net unrealized (gains) losses on debt and equity securities and net (gains) losses on derivatives recorded in accumulated OCI, net-of-tax	(560)
Intangibles, other than mortgage servicing rights and goodwill	(1,279)
DVA related to liabilities and derivatives	252
Other	(615)
<b>Common equity tier 1 capital</b>	<b>169,925</b>
Qualifying preferred stock, net of issuance cost	25,220
Deferred tax assets arising from net operating loss and tax credit carryforwards	(3,143)
Defined benefit pension fund assets	(375)
DVA related to liabilities and derivatives under transition	168
Other	(360)
<b>Total Tier 1 capital</b>	<b>191,435</b>
Long-term debt qualifying as Tier 2 capital	22,985
Eligible credit reserves included in Tier 2 capital	3,205
Nonqualifying capital instruments subject to phase out from Tier 2 capital	2,271
Other	(18)
<b>Total Basel 3 Advanced capital</b>	<b>\$ 219,878</b>

For additional information on the components of common shareholders' equity, refer to *Schedule A – Advanced Approaches Regulatory Capital* in Bank of America's September 30, 2016 Regulatory Capital Reporting for Institutions Subject to the Advanced Capital Adequacy Framework — FFIEC 101. For terms and conditions of common stock and preferred stock, refer to *Note 11 – Shareholders' Equity* in the September 30, 2016 Form 10-Q and *Capital Management* in the November 1, 2016 8-K. For the related breakdown of AOCI, refer to *Note 12 – Accumulated Other Comprehensive Income (Loss)* in the September 30, 2016 Form 10-Q. For additional information on goodwill and intangibles, refer to *Note 8 – Goodwill and Intangible Assets* in the September 30, 2016 Form 10-Q. For additional information on Trust Securities, refer to *Note 11 – Long-term Debt* in the November 1, 2016 8-K.

## CAPITAL ADEQUACY

The Corporation manages its capital position to ensure capital is more than adequate to support its business activities and to maintain capital, risk and risk appetite commensurate with one another. Additionally, we seek to maintain safety and soundness at all times, even under adverse scenarios, take advantage of organic growth opportunities, ensure obligations to creditors and counterparties are met, maintain ready access to financial markets, continue to serve as a credit intermediary, remain a source of strength for our subsidiaries and satisfy current and future regulatory capital requirements. Capital management is integrated into our risk and governance processes, as capital is a key consideration in the development of our strategic plan, risk appetite and risk limits. We conduct an Internal Capital Adequacy Assessment Process (ICAAP) on a periodic basis. The ICAAP is a forward-looking assessment of our projected capital needs and resources, incorporating earnings, balance sheet and risk forecasts under baseline and adverse economic and market conditions. We utilize periodic stress tests to assess the potential impacts to our balance sheet, earnings, regulatory capital and liquidity under a variety of stress scenarios. We perform qualitative risk assessments to identify and assess material risks not adequately captured in our forecasts or stress tests. We assess the potential capital impacts of proposed changes to regulatory capital requirements. Management evaluates ICAAP results and provides documented quarterly assessments of the adequacy of our capital guidelines and capital position to the Corporation's Board of Directors (the Board) or its committees.

The Federal Reserve requires BHCs to submit a capital plan and requests for capital actions on an annual basis, consistent with the rules governing the Comprehensive Capital Analysis and Review (CCAR) capital plan. The CCAR capital plan is the central element of the Federal Reserve's approach to ensure that large BHCs have adequate capital and robust processes for managing their capital. For additional information on CCAR and Capital Planning, refer to *Capital Management* within the MD&A section in the September 30, 2016 Form 10-Q and the November 1 2016 8-K.

### Regulatory Capital Ratios

The following table presents risk-based capital ratios and related information as well as the regulatory minimum and "well-capitalized" ratio requirements under Basel 3 Advanced – Transition and Basel 3 Standardized – Transition for the Corporation and its major national bank subsidiaries: BANA and Bank of America California, National Association as of September 30, 2016.

	Bank of America Corporation		Bank of America, N.A.		Bank of America California, N.A.	
	Basel 3	Basel 3	Basel 3	Basel 3	Basel 3	Basel 3
	Standardized	Advanced	Standardized	Advanced	Standardized	Advanced
	Transition	Transition	Transition	Transition	Transition	Transition
<i>(Dollars in millions)</i>						
<b>Regulatory Capital</b>						
Common equity tier 1 capital	\$ 169,925	\$ 169,925	\$ 152,976	\$ 152,976	\$ 3,155	\$ 3,155
Tier 1 capital	191,435	191,435	152,976	152,976	3,155	3,155
Total capital	229,132	219,878	167,037	158,345	3,250	3,184
<b>Assets</b>						
Risk-weighted assets	\$ 1,395,541	\$ 1,547,221	\$ 1,171,834	\$ 1,051,393	\$ 8,143	\$ 5,550
Adjusted quarterly average assets <sup>1</sup>	2,111,234	2,111,234	1,596,914	1,596,914	22,737	22,737
<b>Capital Ratios</b>						
Common equity tier 1 capital	12.2%	11.0%	13.1%	14.5%	38.7%	56.8%
Tier 1 capital	13.7	12.4	13.1	14.5	38.7	56.8
Total capital	16.4	14.2	14.3	15.1	39.9	57.4
Tier 1 leverage	9.1	9.1	9.6	9.6	13.9	13.9

	Bank Holding Company	Insured Depository Institutions
	Regulatory Minimum <sup>2, 3</sup>	Regulatory Minimum <sup>2, 3</sup>
<b>Capital Ratios</b>		
Common equity tier 1 capital	5.875%	5.125%
Tier 1 capital	7.375	6.625
Total capital	9.375	8.625
Tier 1 leverage	4.000	4.000

<sup>1</sup> Reflects adjusted average assets for the three months ended September 30, 2016.

<sup>2</sup> The regulatory minimum amount for September 30, 2016 includes a transition capital conservation buffer of 0.625 percent and a transition global systemically important bank (G-SIB) surcharge of 0.750 percent for the bank holding company only. The 2016 countercyclical capital buffer is zero.

<sup>3</sup> To be "well-capitalized" under the current U.S. banking regulatory agency definitions, a Bank Holding Company must maintain a Tier 1 capital ratio equal to or greater than 6 percent and a Total capital ratio equal to or greater than 10 percent. An Insured Depository Institution must maintain a CET1 ratio equal to or greater than 6.5 percent, a Tier 1 capital ratio equal to or greater than 8 percent, a Total capital ratio equal to or greater than 10 percent, and a Tier 1 leverage ratio equal to or greater than 5 percent.

As of September 30, 2016, Bank of America, all of its U.S. banking subsidiaries and other regulated subsidiaries were "well-capitalized" and exceeded all capital requirements to which each was subject, including applicable capital buffers. As of September 30, 2016, Bank of America's capital conservation buffer was 6.21 percent, in excess of its required transition capital conservation buffer (including the G-SIB surcharge) of 1.375 percent. As a result, Bank of America is not subject to payout ratio limitations on distributions or discretionary bonus payments under Basel 3 requirements. The aggregate amount of surplus capital of subsidiaries engaged in the insurance business was \$112 million. For additional information on regulatory capital and capital ratios for the Corporation, refer to *Capital Management* within the MD&A section in the September 30, 2016 Form 10-Q.

For additional information on the capital conservation and countercyclical capital buffers, refer to *Capital Management* within the MD&A section in the September 30, 2016 Form 10-Q and November 1, 2016 8-K, *Schedule A – Advanced Approaches Regulatory Capital* in Bank of America's September 30, 2016 Regulatory Capital Reporting for Institutions Subject to the Advanced Capital Adequacy Framework – FFIEC 101 and *Schedule HC-R "Regulatory Capital"* in Bank of America's September 30, 2016 Consolidated Financial Statements for Bank Holding Companies – FR Y-9C. For information on retained income, refer to *Schedule HI "Consolidated Report of Income"* in the September 30, 2015, December 31, 2015, March 31, 2016, and June 30, 2016 Consolidated Financial Statements for Bank Holding

Companies – FR Y-9C and Schedule HC-R “Regulatory Capital” in Bank of America’s September 30, 2016 Consolidated Financial Statements for Bank Holding Companies – FR Y-9C.

### Risk-Weighted Assets

Basel 3 Advanced approaches include measures of credit risk, market risk, operational risk and risks related to the credit valuation adjustment (CVA) for over-the-counter (OTC) derivative exposures. The Advanced approaches rely on internal analytical models to measure risk weights for credit risk exposures and allow the use of models to estimate the exposure at default (EAD) for certain exposure types. Market risk applies to covered positions which include trading assets and liabilities, foreign exchange exposures and commodity exposures. Market risk capital is modeled for general market risk as well as specific risk for products where specific risk regulatory approval has been granted; in the absence of specific risk model approval, standard specific risk charges apply. For securitization exposures, institutions are permitted to use the Supervisory Formula Approach (SFA) and would use the Simplified Supervisory Formula Approach (SSFA) if the SFA is unavailable for a particular exposure. Credit risk exposures are measured using internal ratings-based models to determine the applicable risk weight by estimating the probability of default (PD), loss-given default (LGD) and, in certain instances, EAD. The internal analytical models primarily rely on internal historical default and loss experience. Operational risk is measured using internal analytical models which rely on both internal and external operational loss experience and data. The calculations require management to make estimates, assumptions and interpretations, including with respect to the probability of future events based on historical experience. Actual results could differ from those estimates and assumptions. Under the Federal Reserve’s reservation of authority, they may require us to hold an amount of capital greater than otherwise required under the capital rules if they determine that our risk-based capital requirement using our internal analytical models is not commensurate with our credit, market, operational or other risks. The following table presents RWA by risk and exposure type under Basel 3 Advanced – Transition as of September 30, 2016.

<b>Table 3 - RWA by Risk and Exposure Type</b>		September 30, 2016
<i>(Dollars in millions)</i>		
<b>Wholesale</b>		
Corporate	\$	352,187
Bank		14,290
Sovereign		10,747
Income-Producing Real Estate (IPRE)		47,348
High Volatility Commercial Real Estate (HVCRE)		5,171
<b>Total Wholesale RWA</b>		<b>429,743</b>
<b>Retail</b>		
Residential Mortgage		98,590
Qualifying Revolving Exposures		76,018
Other Retail Exposures		32,632
<b>Total Retail RWA</b>		<b>207,240</b>
<b>Counterparty</b>		
Eligible Margin Loans and Repo-Style Transactions		26,290
OTC Derivatives		69,866
Cleared Transactions		5,470
Unsettled Transactions		406
<b>Total Counterparty RWA</b>		<b>102,032</b>
Securitization Exposures <sup>1</sup>		38,825
Equity Exposures		34,893
Credit Risk Supervisory Scalar		51,623
CVA		73,292
Market Risk		61,930
Operational Risk		500,000
All Other <sup>2</sup>		47,643
<b>Total RWA</b>	<b>\$</b>	<b>1,547,221</b>

<sup>1</sup>Securitization Exposures represent Banking Book only.

<sup>2</sup>Primarily consists of deferred tax assets, non-material portfolios and other assets not subject to the application of internal models to derive credit RWAs under the Advanced approaches.

### CREDIT RISK

Credit risk is the risk of loss arising from the inability or failure of a borrower or counterparty to meet its obligations. Economic or market disruptions, insufficient credit loss reserves or concentration of credit risk may result in an increase in the provision for credit losses, which could have an adverse effect on our financial condition and results of operations. A number of our products expose us to credit risk, including loans, letters of credit, derivatives and debt securities. The financial condition of our consumer and commercial borrowers and counterparties could adversely affect our earnings.

We manage credit risk based on the risk profile of the borrower or counterparty, repayment sources, the nature of underlying collateral and other support given current events, conditions and expectations. We classify our portfolios as either consumer or commercial and monitor credit risk in each.

Global and U.S. economic conditions may impact our credit portfolios. To the extent economic or market disruptions occur, such disruptions would likely increase the risk that borrowers or counterparties would default or become delinquent on their obligations to us. Increases in delinquencies and default rates could adversely affect our consumer credit card, home equity, residential mortgage and purchased credit-impaired portfolios through increased charge-offs and provision for credit losses. Additionally, increased credit risk could also adversely affect our commercial loan portfolios with weakened customer and collateral positions.

For additional information on the assessment of credit risk as it relates to loans and leases, refer to *Credit Risk Management* within the MD&A section in the September 30, 2016 Form 10-Q and the November 1, 2016 8-K.

### **Organizational Structure and Responsibilities**

The Corporation takes a comprehensive approach to risk management with a defined Risk Framework and an articulated Risk Appetite Statement that are approved annually by the Enterprise Risk Committee (ERC) and the Board. Our Risk Framework is the foundation for comprehensive management of the risks facing the Corporation. The Risk Framework sets forth clear roles, responsibilities and accountability for the management of risk and provides a blueprint for how the Board, through delegation of authority to committees and executive officers, establishes risk appetite and associated limits for our activities. Our Risk Appetite Statement is intended to ensure that the Corporation maintains an acceptable risk profile by providing a common framework and a comparable set of measures for senior management and the Board to clearly indicate the level of risk the Corporation is willing to accept. Risk appetite is set at least annually in conjunction with the strategic, capital and financial operating plans to align risk appetite with the Corporation's strategy and financial resources.

The Audit Committee oversees the qualifications and independent performance of the independent registered public accounting firm, the performance of the Corporation's corporate audit function, the integrity of the Corporation's consolidated financial statements, the Corporation's compliance with legal and regulatory requirements and makes inquiries of management or the Corporate General Auditor (CGA) to determine whether there are scope or resource limitations that impede the ability of Corporate Audit to execute its responsibilities. The Audit Committee is also responsible for overseeing compliance risk pursuant to the New York Stock Exchange listing standards.

The ERC provides additional oversight of senior management's responsibilities for the identification and management of Corporation-wide credit exposures. The ERC oversees, among other functions, the identification and management of our credit exposures on an enterprise-wide basis, our responses to trends affecting those exposures, the adequacy of the allowance for credit losses and our credit-related policies.

Corporate Audit and the CGA maintain their independence from the Front Line Units, independent risk management, and other control functions by reporting directly to the Audit Committee or the Board. The CGA administratively reports to the CEO. Corporate Audit provides independent assessment and validation through testing of key processes and controls across the Corporation. Corporate Audit includes Credit Review which periodically tests and examines credit portfolios and processes.

For additional information on the Corporation's credit risk management policies, refer to *Managing Risk* and *Credit Risk Management* within the MD&A section in the September 30, 2016 Form 10-Q and the November 1, 2016 8-K.

### **Credit Risk Exposures**

Credit risk exposures (calculated according to exposure type) as reported under GAAP can be found within the Corporation's most recent SEC filings. For additional information, the specific references related to credit risk are listed below.

*Accounting Policies* – For information on internal policies governing past due and delinquency status, nonaccrual, allowance for credit losses, and charge-offs of uncollectible accounts, refer to *Note 1 – Summary of Significant Accounting Principles* in the November 1, 2016 8-K.

*Average Balances* – For average asset balances, refer to *Table 11 – Quarterly Average Balances and Interest Rates – FTE Basis* and *Table 12 – Year-to-Date Average Balances and Interest Rates – FTE Basis* in the September 30, 2016 Form 10-Q.

*Outstanding Loans and Leases* – The Corporation utilizes a Consumer and Commercial portfolio segmentation approach to present information related to loans and leases. For additional information on loans and leases including nonperforming, past due and impaired loans, refer to *Credit Risk Management* within the MD&A section and *Note 4 – Outstanding Loans and Leases* in the September 30, 2016 Form 10-Q and *Statistical Table VII – Selected Loan Maturity Data* in the November 1, 2016 8-K.



*Allowance for Credit Losses* – For additional information on the change in allowance for credit losses, including charge-offs, recoveries, provision for credit losses and a reconciliation of changes in allowance for loan and lease losses (ALLL), refer to *Allowance for Credit Losses* within the MD&A section, *Note 5 – Allowance for Credit Losses* in the September 30, 2016 Form 10-Q and *Statistical Table V – Allowance for Credit Losses* in the November 1, 2016 8-K.

*Investment Securities* – For additional information on securities, refer to *Note 3 – Securities* in the September 30, 2016 Form 10-Q.

*Derivatives* – For additional information on the derivative positions of the Corporation, refer to *Note 2 – Derivatives* in the September 30, 2016 Form 10-Q. For additional information on purchased and sold credit derivatives, collateral held and gross positive fair value, refer to Schedule HC-L “*Derivatives and Off-Balance Sheet Items*” in Bank of America’s September 30, 2016 Consolidated Financial Statements for Bank Holding Companies – FR Y-9C. For additional information on derivatives EAD as calculated under the current exposure methodology (CEM), refer to Schedule J “*Wholesale Exposure-OTC Derivatives*” in Bank of America’s September 30, 2016 Regulatory Capital Reporting for Institutions Subject to the Advanced Capital Adequacy Framework — FFIEC 101.

*Off-Balance Sheet Exposures* – For additional information on the off-balance sheet exposures for the Corporation, refer to *Note 10 – Commitments and Contingencies* in the September 30, 2016 Form 10-Q.

*Credit Exposures by Geographic / Industry Distribution* – For additional information on the geographic and industry distribution of credit exposures categorized by exposure type, refer to *Credit Risk Management* within the MD&A section in the September 30, 2016 Form 10-Q.

## **RETAIL CREDIT RISK**

Credit risk management for the consumer portfolio begins with initial underwriting and continues throughout a borrower’s credit cycle. Statistical techniques in conjunction with experiential judgment are used in all aspects of portfolio management including underwriting, product pricing, risk appetite, setting credit limits, and establishing operating processes and metrics to quantify and balance risks and returns. Statistical models are built using detailed behavioral information from external sources such as credit bureaus and/or internal historical experience. These models are a component of our consumer credit risk management process and are used in part to assist in making both new and ongoing credit decisions, as well as portfolio management strategies, including authorizations and line management, collection practices and strategies, and determination of the ALLL and allocated capital for credit risk.

The Corporation monitors credit quality within its Consumer Real Estate, Credit Card and Other Consumer portfolio segments based on primary credit quality indicators. For more information on the portfolio segments, refer to *Note 1 – Summary of Significant Accounting Principles* in the November 1, 2016 8-K. Within the Consumer Real Estate portfolio segment, the primary credit quality indicators are refreshed loan-to-value (LTV) and refreshed FICO score. Refreshed LTV measures the carrying value of the loan as a percentage of the value of the property securing the loan, refreshed quarterly. Home equity loans are evaluated using combined loan-to-value which measures the carrying value of the Corporation’s loan and available line of credit combined with any outstanding senior liens against the property as a percentage of the value of the property securing the loan, refreshed quarterly. The FICO score measures the creditworthiness of the borrower based on the financial obligations of the borrower and the borrower’s credit history. At a minimum, FICO scores are refreshed quarterly, and in many cases, more frequently. FICO scores are also a primary credit quality indicator for the Credit Card and Other Consumer portfolio segment and the business card portfolio within U.S. small business commercial.

Retail exposures are categorized as residential mortgage, qualifying revolving exposures and other retail exposures. A residential mortgage exposure is a retail exposure (other than a securitization exposure, equity exposure, presold construction loan or statutory multifamily mortgage exposure) that: (1) is primarily secured by a first or subsequent lien on a one-to-four family residential property; or (2) has an original and outstanding amount of \$1 million or less and is primarily secured by a first or subsequent lien on residential property that is not one-to-four family. Qualifying Revolving Exposures are exposures that are revolving, unsecured and unconditionally cancellable by the Corporation with a maximum exposure amount of \$100,000. In most cases credit card lines and overdraft lines related to checking accounts are classified as qualified revolving exposures. Other retail exposures include exposures to individuals for non-business purposes that do not meet the dollar threshold for qualifying revolving exposures as well as term loans, margin loans, auto loans and leases, student loans and loans to individuals for business purposes up to a single borrower amount of \$1 million.

### **Retail Risk Rating System**

When assessing the credit risk for retail exposures, the Corporation uses a segmentation process where exposures are managed as part of a group with homogeneous risk characteristics, not on an individual exposure basis. The Corporation has defined the segmentation methodology as the optimal grouping of risk parameters into clusters. The grouping process involves a statistical test to identify exposures whose risk parameters are collectively proximate to each other and simultaneously distant from the next identified cluster. Groupings are performed for each PD, EAD and LGD model at a product and country level. Through this segmentation method, we define homogeneous risk characteristics as groups of exposures that have similar risk parameters. Within the segments, the average parameter

value is calculated, and then the average is applied towards all exposures within the segment. This process ultimately determines the parameter ranges and capital allocations for Basel 3 RWA calculations.

### Determining Retail Risk Parameters

Retail PD is the Corporation's empirical estimate of the average one-year default rate for the segment based on its underlying risk characteristics and composition. The retail segmentation generally falls along product, country and delinquency status lines. Historical retail segment performance is viewed over a mix of economic conditions as the best available data for PD estimation. Retail portfolio PD parameters are organized along the Basel 3 retail subcategory definitions of residential mortgage, qualified revolving exposure and other retail. Within these subcategories and the segmentation mentioned above, data is summarized by various risk drivers.

To estimate PDs for the retail portfolios, the Corporation utilizes a regression model to formulate the relationship between segment attributes and credit performance. The exposure data is further summarized by segment and risk attribute through the use of static pools. These pools help determine composite default rates over a one-year time horizon.

Retail LGD is the Corporation's empirical estimate of the loss severity for the product or severity segmentation given downturn economic conditions. Retail LGD segmentation represents a grouping of exposures expected to have homogeneous LGD characteristics based on statistical analyses of historical performance. Severity segmentations are based on product, country, collateral type, loan-to-value ratio and other risk attributes.

Retail EAD is defined as the estimated dollar amount of the drawn exposure for a defaulted credit line over a 12-month time horizon. Retail EAD has two primary components, current outstanding carrying value and potential utilization of the unused portion of the unfunded commitment. It represents the empirical estimate of the amount of exposure that would be outstanding if an obligor defaulted, based on assumed homogeneous characteristics and statistical analyses of historical performance. Retail EAD segmentation represents a grouping of exposures expected to have homogeneous EAD characteristics based on the statistical analysis of historical performance. Retail EAD models within each subcategory are segmented by country, product and delinquency status, with the reference data summarized by various risk drivers.

Accuracy of the retail models is maintained through the use of backtesting and benchmarking predicted risk parameters against realized. Models are also independently validated by a model governance team. For additional information regarding estimated losses, actual losses and factors that impact the loss experience, refer to *Credit Risk Management* within the MD&A section and *Note 5 – Allowance for Credit Losses* in the September 30, 2016 Form 10-Q.

### Retail Credit Exposures

The following table includes first lien and junior lien mortgages and revolving exposures allocated by PD range as of September 30, 2016. First lien mortgages represent approximately 68% of the exposure amount, revolving home equity lines of credit exposures approximately 29%, and the remaining exposures consist of junior lien mortgages.

	Balance Sheet		Undrawn		Exposure-Weighted Average			
	Amount	Commitments	EAD	RWA	PD	LGD	Risk Weight	
0.00 to < 0.15	\$ 77,960	\$ 45,618	\$ 94,319	\$ 10,482	0.08%	55.67%	11.11%	
0.15 to < 0.50	102,114	6,301	106,349	22,494	0.25	45.54	21.15	
0.50 to < 5.50	43,501	838	44,184	35,273	1.59	50.68	79.83	
5.50 to < 20.00	6,930	128	7,059	13,451	9.89	43.25	190.55	
20.00 to < 100.00	3,249	63	3,314	6,743	43.00	40.58	203.47	
100.00 (default) <sup>1</sup>	10,277	139	10,400	10,147	100.00	50.18	97.57	
<b>Total</b>	<b>\$ 244,031</b>	<b>\$ 53,087</b>	<b>\$ 265,625</b>	<b>\$ 98,590</b>	<b>5.10%</b>	<b>50.05%</b>	<b>37.12%</b>	

<sup>1</sup> The exposure-weighted average risk weight for defaulted loans is less than 100% due to certain loans being insured and/or guaranteed by U.S. government agencies.

The following table presents a summary of qualifying revolving exposures (primarily consisting of credit card exposures) allocated by PD range as of September 30, 2016.

**Table 5 - Qualifying Revolving Exposures by PD Range** September 30, 2016

(Dollars in millions)

	Balance Sheet		Undrawn		Exposure-Weighted Average			
	Amount	Commitments	EAD	RWA	PD	LGD	Risk Weight	
0.00 to < 0.50	\$ 21,353	\$ 298,551	\$ 65,091	\$ 6,011	0.18%	94.86%	9.23%	
0.50 to < 1.50	29,252	42,681	45,751	15,217	0.91	95.08	33.26	
1.50 to < 3.50	26,230	4,742	32,001	22,122	2.39	95.04	69.13	
3.50 to < 7.00	13,913	1,351	16,600	17,543	4.42	94.80	105.68	
7.00 to < 10.00	2,780	573	3,287	5,042	7.90	94.64	153.39	
10.00 to < 100.00	4,146	490	4,776	10,082	36.25	95.08	211.10	
100.00 (default)	1	1	1	1	100.00	93.90	100.00	
<b>Total</b>	<b>\$ 97,675</b>	<b>\$ 348,389</b>	<b>\$ 167,507</b>	<b>\$ 76,018</b>	<b>2.40%</b>	<b>94.95%</b>	<b>45.38%</b>	

The following table presents a summary of all other retail exposures that do not meet the Basel 3 definition of either a residential mortgage or a qualifying revolving exposure, allocated by PD range as of September 30, 2016.

**Table 6 - Other Retail Exposures by PD Range** September 30, 2016

(Dollars in millions)

	Balance Sheet		Undrawn		Exposure-Weighted Average			
	Amount	Commitments	EAD	RWA	PD	LGD	Risk Weight	
0.00 to < 0.50	\$ 65,306	\$ 117,628	\$ 90,352	\$ 9,989	0.09%	45.78%	11.06%	
0.50 to < 1.50	10,922	2,655	11,930	7,028	0.91	62.20	58.91	
1.50 to < 3.50	5,568	674	5,978	5,678	2.13	68.29	94.98	
3.50 to < 7.00	2,818	373	3,264	3,744	4.63	78.44	114.71	
7.00 to < 10.00	959	3,099	4,078	4,045	8.63	62.05	99.19	
10.00 to < 100.00	1,345	43	1,414	2,084	28.68	73.77	147.38	
100.00 (default)	64	38	64	64	100.00	69.27	100.00	
<b>Total</b>	<b>\$ 86,982</b>	<b>\$ 124,510</b>	<b>\$ 117,080</b>	<b>\$ 32,632</b>	<b>1.11%</b>	<b>50.43%</b>	<b>27.87%</b>	

## WHOLESALE CREDIT RISK

Credit risk management for the wholesale portfolio begins with an assessment of the credit risk profile of the borrower or counterparty based on an analysis of its financial position. As part of the overall credit risk assessment, our wholesale credit exposures are assigned a risk rating and are subject to approval based on defined credit approval standards. Subsequent to loan origination, risk ratings are monitored on an ongoing basis, and if necessary, adjusted to reflect changes in the financial condition, cash flow, risk profile or outlook of a borrower or counterparty. In making credit decisions, we consider risk rating, collateral, country, industry and single name concentration limits while also balancing this with the total borrower or counterparty relationship. Our business and risk management personnel use a variety of tools to continuously monitor the ability of a borrower or counterparty to perform under its obligations. We use risk rating aggregations to measure and evaluate concentrations within portfolios. In addition, risk ratings are a factor in determining the level of allocated capital and the allowance for credit losses. For additional information on the Corporation's credit risk management policies of its commercial portfolio, refer to *Credit Risk Management* within the MD&A section in the September 30, 2016 Form 10-Q.

Wholesale exposures include corporate exposures, real estate exposures, bank exposures and sovereign exposures. Real estate exposures are further divided into income-producing real estate exposures (IPRE) and high-volatility commercial real estate exposures (HVCRE). IPRE exposures represent commercial real estate exposures where the method of reimbursement is tied to the income produced from those exposures. HVCRE exposures are a type of credit facility that finances or has financed the acquisition, development or construction of real property (excluding facilities that finance one-to-four family residential properties or commercial real estate projects that meet certain LTV and capital contribution requirements).

### Wholesale Risk Rating System

The Corporation uses three types of risk rating methodologies to assign risk ratings to wholesale exposure: internally developed scorecards, external mappings and the judgmental approach. Scorecards and external mappings both provide quantifiable and objective means to assess risk. The primary risk rating methodology is internally, empirically developed portfolio or industry scorecards. These scorecards are considered preferable due to the combination of rich data available from financial statements, relationship based obligor specific information that, in general, cannot be extracted from financial statements, and the fact that most are developed on and calibrated to internal bank default experience yielding a generally consistent default behavior among risk ratings across risk rating models. The majority of risk ratings employ empirically estimated, internally developed scorecards.

## Determining Wholesale Risk Parameters

Wholesale PD is an empirical estimate of the average one-year default rate over a mix of economic conditions including downturn conditions for the obligor risk rating grade assigned by the Corporation. PD estimation aligns the scorecard risk ratings with the definition of default according to Basel 3 and a consistent performance observation window.

The accuracy of the PD model is backtested by comparing predicted and realized PDs on an on-going basis. Benchmarking analysis evaluates PD calibration by comparing the PDs to alternative approaches by mapping them to external ratings, including calibrations based on Moody's KMV EDFs (Expected Default Frequency) and S&P's historical default experience.

Wholesale LGD is defined as the greater of (1) the estimated long-run default-weighted average economic loss per dollar of EAD the Corporation would expect to incur if the obligor (or a typical obligor in the loss severity grade assigned to the exposure) were to default within a one-year horizon over a mix of economic conditions, including economic downturn conditions; and (2) the estimated economic loss per dollar of EAD the Corporation would expect to incur if the obligor (or a typical obligor in the loss severity grade assigned to the exposure) were to default within a one-year horizon during economic downturn conditions.

Wholesale LGD results are backtested and benchmarked to validate the accuracy and calibration of the LGDs utilized. Backtesting validates the accuracy of wholesale LGDs by comparing predicted LGD to realized LGD for each quarter in the reference data set. Benchmarking evaluates the wholesale LGD calibration in comparison to external benchmarks to determine that the experience is in line with industry averages.

Wholesale EAD is defined as the estimated dollar amount of the drawn exposure for a defaulted credit line over a 12-month time horizon. Wholesale EAD has two components, current outstanding carrying value and potential utilization of the unused portion of the unfunded commitment. Wholesale EAD is the empirical estimate of the amount of exposure that would be outstanding if an obligor defaulted, based on assumed homogeneous characteristics and statistical analyses of historical performance. For additional information regarding estimated losses, actual losses and factors that impacted the loss experience, refer to *Credit Risk Management* within the MD&A section and *Note 5 – Allowance for Credit Losses* in the September 30, 2016 Form 10-Q.

## Wholesale Credit Exposures

The following table presents exposures to wholesale clients and issuers allocated by PD range as of September 30, 2016.

	Balance Sheet		Undrawn		Exposure-Weighted Average		
	Amount	Commitments	EAD	RWA	PD	LGD	Risk Weight
0.00 to < 0.15	\$ 666,866	\$ 225,981	\$ 833,668	\$ 105,199	0.04%	28.15%	12.62%
0.15 to < 0.50	171,235	149,146	265,685	120,611	0.28	37.95	45.40
0.50 to < 2.50	147,584	84,812	181,069	134,926	1.18	33.59	74.52
2.50 to < 10.00	38,566	20,830	43,717	45,607	4.61	32.51	104.32
10.00 to < 100.00	10,365	8,852	13,059	18,705	14.50	33.76	143.23
100.00 (default)	3,722	1,022	4,858	4,695	100.00	36.78	96.64
<b>Total</b>	<b>\$ 1,038,338</b>	<b>\$ 490,643</b>	<b>\$ 1,342,056</b>	<b>\$ 429,743</b>	<b>0.89%</b>	<b>31.06%</b>	<b>32.02%</b>

## COUNTERPARTY CREDIT RISK

Counterparty credit risk is the risk that a counterparty to a transaction may default before completing the satisfactory settlement of the transaction. This risk applies to OTC derivatives, eligible margin loans, repo-style transactions and cleared transactions. Cleared transactions include exchange-traded derivatives, OTC derivatives and repo-style transactions that the Corporation clears through a central counterparty. An economic loss occurs if the transaction or portfolio of transactions with the counterparty has a positive replacement cost or outstanding loan amount that exceeds any collateral posted by the counterparty before the transaction(s) could be unwound, in the case of counterparty default.

We use CEM to calculate exposure amounts for the counterparty credit risk of derivatives under the Advanced approaches. Under CEM, EAD is determined by adding the Corporation's current exposure and potential future exposure (PFE), as defined in Basel 3. The EAD is then adjusted to reflect the risk reduction associated with legally enforceable master netting agreements and the value of eligible collateral received or posted. The collateral benefit for derivatives, eligible margin loans and repo-style transactions is calculated using standard supervisory haircuts under the collateral haircut approach.

In connection with certain OTC derivative contracts and other trading agreements, the Corporation could be required to provide additional collateral or to terminate transactions with certain counterparties in the event of a downgrade of the senior debt ratings of the Corporation or certain subsidiaries. The amount of additional collateral required depends on the contract and is usually a fixed

incremental amount and/or the market value of the exposure. For additional information on the impact of a credit rating downgrade, refer to *Note 2 – Derivatives* in the September 30, 2016 Form 10-Q.

### Valuation Adjustments

We record CVA on the Corporation's derivative assets, including our credit default protection purchased, in order to properly reflect the credit risk of the counterparty. CVA is based on a modeled expected exposure that incorporates current market risk factors including changes in market spreads and non-credit related market factors that affect the value of a derivative. The exposure also takes into consideration credit mitigants such as legally enforceable master netting agreements and collateral. We also record a funding valuation adjustment (FVA) to include funding costs on uncollateralized derivatives and derivatives where the Corporation is not permitted to reuse the collateral it receives. The Corporation also calculates a debit valuation adjustment (DVA) to properly reflect our own credit risk exposure as part of the fair value of derivative liabilities. DVA is deducted from Common equity tier 1 capital if there is a gain, and added back if there is a loss. For additional information, refer to *Capital Management* and *Credit Risk Management* within the MD&A section, *Note 2 – Derivatives* and *Note 14 – Fair Value Measurement* in the September 30, 2016 Form 10-Q.

### Risk Mitigation

A number of techniques are used by the Corporation to manage counterparty credit risk. These include but are not limited to netting, collateral agreements and credit enhancements. Substantially all of the Corporation's derivative contracts contain credit risk-related contingency features. OTC derivative transactions are generally executed under an industry standard approved form of a master netting agreement primarily in the form of International Swaps and Derivatives Association, Inc. master agreements that provide the Corporation the right to offset amounts owed to the counterparty against amounts owed by the same counterparty and provides other rights such as the ability for the Corporation to terminate a transaction upon default. Secured financing transactions are generally executed under standard Master Repurchase Agreements, Securities Lending Agreements and other agreements that would serve similar purposes with respect to netting and termination provisions. For additional information on the policies and extent to which the Corporation uses netting, refer to *Note 2 – Derivatives* and *Note 9 – Federal Funds Sold or Purchased, Securities Financing Agreements and Short-term Borrowings* in the September 30, 2016 Form 10-Q, and *Note 1 – Summary of Significant Accounting Principles* in the November 1, 2016 8-K.

Credit enhancements include a variety of provisions that may be used to reduce the credit risk related to a transaction or counterparty. Events such as a credit rating downgrade (depending on the resulting rating level) or a breach of credit covenants would typically require an increase in the amount of collateral required of the counterparty and/or allow the Corporation to take additional protective measures such as early termination of all trades. These contingency features may be for the benefit of the Corporation as well as its counterparties with respect to changes in the Corporation's creditworthiness. For additional information on collateral, refer to *Note 1 – Summary of Significant Accounting Principles* in the November 1, 2016 8-K.

### Credit Limits

As part of the overall credit risk assessment, our commercial credit exposures are assigned a risk rating and are subject to approval based on defined credit approval standards. In making credit decisions, we consider risk rating, collateral, country, industry and single name concentration limits while also balancing this with the total borrower or counterparty relationship. Our business and risk management personnel use a variety of tools to continuously monitor the ability of a borrower or counterparty to perform under its obligations. For additional information on credit limits, refer to *Managing Risk* and *Credit Risk Management* within the MD&A section in the September 30, 2016 Form 10-Q.

### Economic Capital

Economic capital for credit risk captures two types of risks. Default risk represents the loss of principal due to outright default or the borrower's inability to repay an obligation in full. Migration risk represents potential loss in market value due to credit deterioration over the one-year capital time horizon. Credit risk is assessed and modeled for all on- and off-balance sheet credit exposures within subcategories for commercial, retail, counterparty and investment securities. The economic capital methodology captures dimensions such as concentration and country risk. The economic capital methodology is based on the PD, LGD, EAD and maturity for each credit exposure as well as portfolio correlations across exposures. Our economic capital measurement process provides a risk-based measurement of the capital required for unexpected credit, market and operational losses over a one-year time horizon at a 99.97 percent confidence level.

### Collateral Valuation

Many of our derivative transactions are executed under collateral agreements. Collateral consists of assets that are pledged as security by a single counterparty to another as assurance of payment or performance against an obligation. Collateral agreements generally provide the Corporation the right to liquidate collateral held as payment in the event of a counterparty default. Collateral is managed by a

centralized team and most contracts are subject to a daily mark-to-market process. Collateral movements are generally executed daily in accordance with the Corporation's standard bilateral agreement with the counterparty. Collateral permits the reduction of the overall exposure to the counterparty by netting the positive market value of a transaction against the market value of the collateral held after haircut adjustment. For additional information, refer to *Note 2 – Derivatives* and *Note 14 – Fair Value Measurements* in the September 30, 2016 Form 10-Q.

The Corporation's credit policy defines acceptable forms of collateral for OTC derivatives, repo-style transactions and eligible margin loans, and is generally limited to cash, U.S. Treasury securities, U.S. agency securities and select Government Sponsored Entity (GSE) mortgage-backed securities and certain high quality sovereign securities. For additional information, refer to *Note 1 – Summary of Significant Accounting Principles* in the November 1, 2016 8-K.

For information on collateral held, refer to Schedule HC-L "*Derivatives and Off-Balance Sheet Items*" in Bank of America's September 30, 2016 Consolidated Financial Statements for Bank Holding Companies – FR Y-9C.

### Counterparty Credit Exposures

The following table presents RWA by transaction type as of September 30, 2016.

	<b>Basel 3 Advanced RWA</b>
OTC derivatives	\$ 69,866
Repo-style transactions	12,771
Margin Loans	13,519
Cleared transactions	5,470
Unsettled transactions	406
<b>Total</b>	<b>\$ 102,032</b>

The following table presents counterparty credit risk exposures for OTC derivatives, repo-style transactions, and eligible margin loans allocated by PD range as of September 30, 2016. The table does not include cleared or unsettled transactions.

	EAD	RWA	Exposure-Weighted Average		
			PD	LGD	Risk Weight
0.00 to < 0.15	\$ 135,108	\$ 31,541	0.08%	42.54%	23.35%
0.15 to < 0.50	80,778	34,988	0.21	42.72	43.31
0.50 to < 2.50	34,326	26,468	1.05	42.56	77.11
2.50 to < 10.00	997	1,396	4.57	42.27	140.02
10.00 to < 100.00	752	1,496	13.81	40.62	198.94
100.00 (default)	75	75	100.00	45.57	100.00
Eligible margin loans - 300%	64	192	n/a	n/a	300.00
<b>Total</b>	<b>\$ 252,100</b>	<b>\$ 96,156</b>	<b>0.34%</b>	<b>42.59%</b>	<b>38.14%</b>

### Wrong-Way Risk

Wrong-way risk arises when credit exposure to a counterparty during the life of a trade is adversely correlated to the counterparty's credit quality. The Corporation uses a range of policies and reporting to detect and monitor wrong-way risk from trade inception until maturity of the transaction. Product approval policies and forums have been established to review potential situations of specific wrong-way risk prior to trade inception. The Corporation has also developed a stress testing framework that is utilized for scenario analysis to proactively manage wrong-way risk in the portfolio.

## CREDIT RISK MITIGATION

The Corporation manages credit risk based on the risk profile of the borrower or counterparty, repayment sources, the nature of underlying collateral, hedging options available and other support given current events, conditions and expectations. The Corporation proactively refines its underwriting and credit management practices, as well as credit standards, to meet the changing economic environment. As part of its credit risk and portfolio management activities, the Corporation purchases credit protection in the form of guarantees, private credit risk insurance and credit derivatives to hedge exposures that it purchases, originates or participates in such as loans and investment securities. Under Basel 3, the Corporation recognizes the risk mitigating effect of qualifying credit risk hedges on banking book wholesale exposures in its regulatory capital calculations. Eligible credit hedges that the Corporation typically uses to mitigate credit risk and that also provide regulatory capital relief include guarantees and credit protection purchased from third parties. Eligible credit default swap counterparties serving as guarantors of credit risks in the banking book include commercial banks, investment banks and insurance companies.

Apart from using eligible credit hedges to mitigate credit risk of wholesale exposures as described above, the Corporation also uses other risk mitigation techniques to manage the size and risk profile of the loan portfolio such as loan sales, including syndication of exposures to third parties, and portfolio risk diversification through loan size and geography. The Corporation also reviews, measures and manages commercial real estate loans by geographic location and property type.

The Corporation assesses credit risk using comprehensive tools and measures to allow us to identify and mitigate emerging risks before they become material. One process utilizes an analysis of commercial utilized credit exposure by industry based on S&P industry classifications. This analysis includes commercial loans and leases, standby letters of credit and financial guarantees, derivative assets, assets held-for-sale and commercial letters of credit. Additional analysis focuses on assessing concentrations for outstanding commercial real estate loans by the geographic region where the property is located as well as the type of property. For additional information on credit risk mitigation, refer to *Credit Risk Management* within the MD&A section in the September 30, 2016 Form 10-Q.

The following table quantifies the wholesale portfolios covered by eligible credit derivatives and guarantees as of September 30, 2016.

<i>(Dollars in millions)</i>	<b>EAD</b>		<b>RWA</b>	
Corporate	\$	31,557	\$	14,519
Bank		182		87
Sovereign		457		57
IPRE		8,183		4,956
HVCRE		1,281		1,230
<b>Total</b>	<b>\$</b>	<b>41,660</b>	<b>\$</b>	<b>20,849</b>

## SECURITIZATION

Securitization exposures under Basel 3 are defined as on- or off-balance sheet credit exposures that arise from a traditional or synthetic securitization (including credit-enhancing representations and warranties or resecuritization). Traditional securitization exposures are those where all or a portion of the credit risk of one or more underlying exposures is transferred to one or more third parties other than through the use of credit derivatives or guarantees, whereas synthetic securitizations utilize derivatives or guarantees to transfer the risk to a third-party. Resecuritizations are transactions that contain one or more underlying positions that are securitizations. Additionally, in all instances, securitizations reflect exposures where the credit risk has been separated into at least two tranches reflecting differing levels of seniority; performance of the securitization depends on the performance of the underlying exposures; and all or substantially all of the underlying exposures are financial exposures. U.S. agency and GSE mortgage-backed securitizations (e.g., Fannie Mae, Freddie Mac and Ginnie Mae) that issue pass-through securities that are not broken into two or more tranche levels of seniority are not considered securitizations under the Basel 3 definition and are not included in the discussion that follows.

The Corporation periodically securitizes certain types of mortgage loans. These securitizations are a source of funding for the Corporation and a means of transferring the economic risk of the loans or debt securities to third parties. In a securitization, various classes of debt securities may be issued and are generally collateralized by a single class of transferred assets which most often consists of residential mortgages, but may also include commercial mortgages, credit card receivables, home equity loans, automobile loans, municipal bonds or other securities. Loans that have been securitized may be serviced by the Corporation or by third parties. With each securitization, the Corporation may retain a portion of the securities, subordinated tranches, interest-only strips, subordinated interests in accrued interest and fees on the securitized receivables or, in some cases, over collateralization and cash reserve accounts, all of which are referred to as retained interests.

The Corporation follows the Basel 3 prescribed hierarchy of approaches for computation of capital related to securitization exposures and applies either SFA or SSFA provided the Corporation is able to meet the operational requirements related to data and modeling as required by these methodologies. The Corporation applies a 1,250 percent risk weight to those securitization exposures where SFA or SSFA cannot be applied.

For additional information, refer to *Note 1 – Summary of Significant Accounting Principles* in the November 1, 2016 8-K and *Note 6 – Securitizations and Other Variable Interest Entities* in the September 30, 2016 Form 10-Q.

### Securitization Activity within the Banking Book

The Corporation manages credit and market risks related to securitization and resecuritization positions, including portfolio risk and seller's risk, according to the Corporation's Risk Framework. Methods to monitor credit and market risks may vary based on the type of securitization portfolio.

Credit risk management is responsible for approving credit exposure to new and ongoing securitization and resecuritization exposure. Initial and ongoing reviews include consideration of underlying collateral quality, credit enhancement levels and structural features. Portfolio management is responsible for monitoring periodic servicer reports against any loan performance triggers or covenants, as well as overall performance trends in the context of economic, sector and servicer developments.

The Corporation performs due diligence for each securitization and resecuritization exposure, and documents such due diligence within three days of acquiring each position and on an ongoing basis at least every 90 days as required by Basel 3. The Corporation's due diligence focuses on each position's structural features and credit metrics of the underlying assets of the securitization and resecuritization that would materially affect the performance of the position.

For information on risk mitigation for securitizations, refer to *Note 6 – Securitizations and Other Variable Interest Entities* in the September 30, 2016 Form 10-Q.

Through its broker-dealer subsidiaries, the Corporation may structure and underwrite traditional or synthetic securitization vehicles for third parties.

The Corporation may serve as originator, investor and servicer/collateral manager of assets transferred into traditional securitization vehicles. The Corporation may also provide credit enhancement or serve as liquidity provider to securitization vehicles. As an investor, the Corporation and its subsidiaries hold securitization positions from third-party originated deals and in some instances from internally originated deals. For more information on roles within the securitization processes, refer to *Note 6 – Securitizations and Other Variable Interest Entities* in the September 30, 2016 Form 10-Q.

### **Securitization Activity within the Trading Book**

The risks we assume on securitization and resecuritization positions are driven by the structural features of the positions, performance of the underlying assets and other market risk factors. In order to gauge these risks and fulfill the securitization due diligence requirements set forth in Basel 3, these factors are assessed prior to the purchase of each securitization position. This assessment is documented within three days of purchase and a reassessment is made on a quarterly basis.

Risk management closely monitors the securitization inventory and analyzes changes in positions, the composition of portfolios, trading activity and market risk factors to assess the overall level of market risk of securitizations and resecuritizations to which the Corporation is exposed. For the purpose of managing the Corporation's risk appetite in relation to securitizations and resecuritizations, limits are established and tracked daily in the centralized limits management system. These limits range from granular measures such as fair value and the sensitivities to changes in market risk factors to aggregated portfolio measures such as Value-at-Risk (VaR) and stress testing results.

The modeling framework for securitization and resecuritization risk is based on a look-through approach to the underlying collateral level data. Models are used to project prepayment speeds, default rates and loss severity, which are key inputs in the valuation for both government guaranteed and private label securities. These models incorporate market variables such as the level and volatility of interest rates and credit spreads, as well as macro-economic variables such as gross domestic product, unemployment and housing prices. Models are backtested periodically to measure the accuracy of the model forecasts against actual underlying collateral performance.

The Corporation manages and mitigates the risks inherent in securitization and resecuritization positions, including the use of offsetting positions and portfolio diversification. The use of offsetting positions includes the use of both macro- and position-level hedges to either reduce exposure to certain risk factors or potential market stress events. In addition, the Corporation maintains a diversified portfolio across securitized product types to reduce its sensitivity to individual product types, issuers and servicers.

Through the normal course of business we buy and sell securitization and resecuritization exposures across a number of asset classes such as residential real estate, commercial real estate and consumer asset-backed securities. We are focused on making two-way markets and intermediating transfers of risk between clients. We also continue to manage a legacy portfolio with the primary objective of managing the risk while reducing the exposures.

For information on risk mitigation for securitizations, refer to *Note 6 – Securitizations and Other Variable Interest Entities* in the September 30, 2016 Form 10-Q.

The Corporation's accounting policies as they relate to securitization and securitization vehicles are in accordance with GAAP. For additional information, refer to *Note 1 – Summary of Significant Accounting Principles* in the November 1, 2016 8-K and *Note 6 – Securitizations and Other Variable Interest Entities* September 30, 2016 Form 10-Q.



## Securitization Exposures in the Banking and Trading Book

Table 10 presents the outstanding principal amount of assets securitized by the Corporation as of September 30, 2016. Third-party assets held in Bank of America-sponsored vehicles are shown separately from securitized assets that were originated or purchased by the Corporation. Assets that are 90 days or more past due or in nonaccrual status are shown below in the last column. Tables 11 and 12 present banking book and trading book exposures that receive securitization capital treatment, with the exception of correlation trading positions presented in the Market Risk section of this report.

**Table 10 - Principal Amount Outstanding and Exposures Past Due by Underlying Collateral Type** September 30, 2016  
(Dollars in millions)

Collateral Type:	Principal Amount Outstanding				Assets impaired or past due
	BAC assets held in traditional securitizations	Third-party assets held in traditional securitizations	BAC assets held in synthetic securitizations		
Residential Mortgage	\$ 74,207	\$ 3,373	\$ -	\$ -	17,042
Municipal Bonds	2,926	-	-	-	-
Other	-	-	330	-	-
<b>Total</b>	<b>\$ 77,133</b>	<b>\$ 3,373</b>	<b>\$ 330</b>	<b>\$ -</b>	<b>17,042</b>

The following table presents the amount of on- and off-balance sheet securitization exposures by underlying exposure type as of September 30, 2016.

**Table 11 - Total Securitization EAD and RWA** September 30, 2016  
(Dollars in millions)

	EAD			RWA
	On-Balance Sheet	Off-Balance Sheet	Total	
Residential Mortgage	\$ 13,770	\$ 2,158	\$ 15,928	\$ 27,303
Commercial Mortgage	1,896	262	2,158	5,788
Commercial and Industrial	9,497	5,303	14,799	8,412
Consumer Auto	8,041	3,129	11,170	2,584
Student Loans	2,467	1,214	3,681	1,634
Municipal Bonds	-	1,760	1,760	496
Other	9,543	4,817	14,359	5,538
<b>Total</b>	<b>\$ 45,213</b>	<b>\$ 18,642</b>	<b>\$ 63,855</b>	<b>\$ 51,755</b>

As of September 30, 2016, \$356 million of securitization exposures were deducted from the Corporation's capital.

The following table presents securitization exposures by risk weight bands as of September 30, 2016.

**Table 12 - Securitization EAD and RWA by Risk Weights** September 30, 2016  
(Dollars in millions)

	SFA		SSFA		1,250%		Total	
	EAD	RWA	EAD	RWA	EAD	RWA	EAD	RWA
<b>Securitization</b>								
= 0% to ≤ 20%	\$ 16,462	\$ 3,292	\$ 31,195	\$ 6,237	\$ -	\$ -	\$ 47,658	\$ 9,529
> 20% to ≤ 50%	1,269	424	3,102	866	-	-	4,371	1,290
> 50% to ≤ 100%	118	73	1,711	1,418	-	-	1,829	1,491
> 100% to < 1,250%	75	121	7,635	28,296	-	-	7,710	28,417
= 1,250%	-	-	352	4,406	321	4,012	673	8,418
<b>Resecuritization</b>								
= 0% to ≤ 20%	-	-	679	136	-	-	679	136
> 20% to ≤ 50%	-	-	271	101	-	-	271	101
> 50% to ≤ 100%	-	-	343	202	-	-	343	202
> 100% to < 1,250%	-	-	295	1,837	-	-	295	1,837
= 1,250%	-	-	27	333	0	2	27	335
<b>Total Securitization</b>	<b>\$ 17,925</b>	<b>\$ 3,910</b>	<b>\$ 45,609</b>	<b>\$ 43,831</b>	<b>\$ 321</b>	<b>\$ 4,014</b>	<b>\$ 63,855</b>	<b>\$ 51,755</b>

The credit risk mitigation benefit for securitization exposures was \$95 million, and \$79 million credit risk mitigation benefit was applied to resecuritization exposures as of September 30, 2016.

The total amount of banking book exposures intended to be securitized as of September 30, 2016 was \$360 million in commercial real estate.

For additional information on securitization exposures, including exposures securitized by the Corporation, gains (losses) recognized during the period and securitization activity, refer to *Note 1 – Summary of Significant Accounting Principles* in the November 1, 2016 8-K and *Note 6 – Securitizations and Other Variable Interest Entities* in the September 30, 2016 Form 10-Q.

## MARKET RISK OVERVIEW

Market risk is the risk that changes in market conditions may adversely impact the value of assets or liabilities, or otherwise negatively impact earnings. This risk is inherent in the financial instruments associated with our operations, primarily within our Global Markets segment. We are also exposed to these risks in other areas of the Corporation (e.g., our Asset Liability Management (ALM) activities). In the event of market stress, these risks could have a material impact on the results of the Corporation. For additional information, refer to *Market Risk Management* within the MD&A section in the November 1, 2016 8-K.

Our traditional banking loan and deposit products are non-trading positions and are generally reported at amortized cost for assets or the amount owed for liabilities (historical cost). However, these positions are still subject to changes in economic value based on varying market conditions, with one of the primary risks being changes in the levels of interest rates. The risk of adverse changes in the economic value of our non-trading positions arising from changes in interest rates is managed through our ALM activities. For additional information, refer to *Interest Rate Risk Management for the Banking Book* on page 25.

We have elected to account for certain assets and liabilities under the fair value option. For additional information on the fair value of certain financial assets and liabilities, refer to *Note 14 – Fair Value Measurements* in the September 30, 2016 Form 10-Q.

### Trading Book

Our trading positions are reported at fair value with changes reflected in income. Trading positions are subject to various changes in market-based risk factors. The majority of this risk is generated by our activities in the interest rate, foreign exchange, credit, equity, and commodities markets. In addition, the values of assets and liabilities could change due to market liquidity, correlations across markets and expectations of market volatility. We seek to manage these risk exposures by using a variety of techniques that encompass a broad range of financial instruments. The key risk management techniques are discussed in more detail in *Trading Risk Management* within the MD&A section of the September 30, 2016 10-Q and *Market Risk Management* within the MD&A section in the November 1, 2016 8-K.

Global Risk Management is responsible for providing senior management with a clear and comprehensive understanding of the trading risks to which the Corporation is exposed. These responsibilities include ownership of market risk policy, developing and maintaining quantitative risk models, calculating aggregated risk measures, establishing and monitoring position limits consistent with risk appetite, conducting daily reviews and analysis of trading inventory, approving material risk exposures and fulfilling regulatory requirements.

Covered positions are defined by regulatory standards as trading assets and liabilities, both on- and off-balance sheet, that meet a defined set of specifications. These specifications identify the most liquid trading positions which are intended to be held for a short-term horizon and where the Corporation is able to hedge the material risk elements in a two-way market. Positions in less liquid markets, or where there are restrictions on the ability to trade the positions, typically do not qualify as covered positions. Foreign exchange and commodity positions are always considered covered positions, except for structural foreign currency positions that we choose to exclude with prior regulatory approval. The characterization of an exposure as a trading asset or liability under GAAP does not necessarily determine its treatment under Basel 3. Trading assets or liabilities that do not meet the regulatory definition of a covered position are excluded from market risk capital treatment and subject to the credit risk capital rules as non-covered exposures. The Corporation maintains policies and procedures for determination of exposures meeting the covered position definition. Throughout this report, covered positions are also referred to as “trading book” positions. Similarly, non-covered positions are referred to as “banking book” positions.

The following table presents the components of Market Risk RWA as of September 30, 2016.

	<b>Capital</b>	<b>RWA</b>
Regulatory VaR 10-day holding period <sup>1</sup>	\$ 202	\$ 2,526
Stressed VaR 10-day holding period <sup>1</sup>	943	11,786
Incremental risk charge	398	4,973
<b>Comprehensive risk measure</b>	<b>388</b>	<b>4,856</b>
<b>Total internal models</b>	<b>1,931</b>	<b>24,141</b>
Standard specific risk		
Securitization	1,034	12,930
Non-securitization	1,848	23,103
Other charges <sup>2</sup>	141	1,756
<b>Total market risk</b>	<b>\$ 4,954</b>	<b>\$ 61,930</b>

<sup>1</sup> A multiplier of 3.00 is used to determine VaR and Stressed VaR capital numbers based on a 60-day average as of September 30, 2016.

<sup>2</sup> Other charges are comprised of modeled specific risk and other modeled charges approved by the U.S. banking regulators.

For additional information on market risk RWA calculated by capital requirement component under both the Standardized and Advanced approaches, refer to the *Market Risk Regulatory Report* for Institutions Subject to the Market Risk Capital Rule – FFIEC 102 for the period ended September 30, 2016.

### Model Risk Management

Quantitative risk models, such as VaR, are an essential component in evaluating the market risks within a portfolio. A subcommittee of the Management Risk Committee (MRC) is responsible for providing management oversight and approval of model risk management and governance (Risk Management, or RM subcommittee). The RM subcommittee defines model risk standards, consistent with the Corporation's risk framework and risk appetite, prevailing regulatory guidance and industry best practice. Models must meet certain validation criteria, including effective challenge of the model development process and a sufficient demonstration of developmental evidence incorporating a comparison of alternative theories and approaches. The RM subcommittee ensures model standards are consistent with model risk requirements and monitors the effective challenge in the model validation process across the Corporation. In addition, the relevant stakeholders must agree on any required actions or restrictions to the models and maintain a stringent monitoring process to ensure continued compliance. For additional information on model validation and evaluation, refer to *Market Risk Management* and *Trading Risk Management* within the MD&A section of the November 1, 2016 8-K.

### Trading Risk Management

To evaluate risk in our trading activities, we focus on the actual and potential volatility of revenues generated by individual positions as well as portfolios of positions. Various techniques and procedures are utilized to enable the most complete understanding of these risks. Quantitative measures of market risk are evaluated on a daily basis from a single position to the portfolio of the Corporation. These measures include sensitivities of positions to various market risk factors, such as the potential impact on revenue from a one basis point change in interest rates, and statistical measures utilizing both actual and hypothetical market moves, such as VaR and stress testing. Periods of extreme market stress influence the reliability of these techniques to varying degrees. Qualitative evaluations of market risk utilize the suite of quantitative risk measures while understanding each of their respective limitations. Additionally, risk managers independently evaluate the risk of the portfolios under the current market environment and potential future environments. For additional information, refer to *Trading Risk Management* within the MD&A section in the September 30, 2016 Form 10-Q.

### Value-at-Risk

VaR is a common statistic used to measure market risk as it allows the aggregation of market risk factors, including the effects of portfolio diversification. A VaR model simulates the value of a portfolio under a range of scenarios in order to generate a distribution of potential gains and losses. VaR represents the loss a portfolio is not expected to exceed more than a certain number of times per period, based on a specified holding period, confidence level and window of historical data. We use one VaR model consistently across the trading portfolios and it uses a historical simulation approach based on a three-year window of historical data. Our primary VaR statistic is equivalent to a 99 percent confidence level. This means that for a VaR with a one-day holding period, there should not be losses in excess of VaR, on average, 99 out of 100 trading days. For additional information, refer to *Market Risk Management* and *Trading Risk Management* within the MD&A section of the November 1, 2016 8-K.

Within any VaR model, there are significant and numerous assumptions that will differ from company to company. The accuracy of a VaR model depends on the availability and quality of historical data for each of the risk factors in the portfolio. A VaR model may require additional modeling assumptions for new products that do not have the necessary historical market data or for less liquid positions for which accurate daily prices are not consistently available. For positions with insufficient historical data for the VaR calculation, the process for establishing an appropriate proxy is based on fundamental and statistical analysis of the new product or less liquid position. This analysis identifies reasonable alternatives that replicate both the expected volatility and correlation to other market risk factors that the missing data would be expected to experience.

VaR may not be indicative of realized revenue volatility as changes in market conditions or in the composition of the portfolio can have a material impact on the results. In particular, the historical data used for the VaR calculation might indicate higher or lower levels of portfolio diversification than will be experienced. In order for the VaR model to reflect current market conditions, we update the historical data underlying our VaR model on a weekly basis, or more frequently during periods of market stress, and regularly review the assumptions underlying the model. A relatively minor portion of risks related to our trading positions is not included in VaR. These risks are reviewed as part of our ICAAP.

Global Risk Management continually reviews, evaluates and enhances our VaR model so that it reflects the material risks in our trading portfolio. Changes to the VaR model are reviewed and approved prior to implementation and any material changes are reported to management through the appropriate management committees.

The VaR statistic used for the regulatory capital calculation shown in Table 14 is defined by regulatory standards (Regulatory VaR) and it differs from the VaR statistic disclosed in the Corporation's SEC disclosures (Disclosure VaR) due to differences in the population and holding period. Regulatory standards require that Regulatory VaR only include the covered position portfolio, while the Disclosure VaR also includes non-covered positions. The holding period for Regulatory VaR is ten days while for Disclosure VaR it is one day. Both Regulatory VaR and Disclosure VaR utilize the same process and methodology as well as the same historical data.

Within the tables below, the VaR for each of the risk factors captures the expected loss with a 99 percent confidence level, similar to a stress scenario for each discrete risk factor. For example, the VaR for the interest rate risk factor identifies the potential loss the Corporation is not expected to exceed more than one out of every 100 days based on the previous three years of historical data for just the interest rate risk in the Corporation's portfolio. The historical days that generate these hypothetical losses might be different than the historical days that generate the hypothetical losses for the credit spread risk factor or for the Corporation's total portfolio. The combination of the potentially different historical days that generate the hypothetical losses for each risk factor is what produces the diversification benefit across the portfolio. As a result, the sum of the VaRs by risk factor is greater than the total Regulatory VaR.

Regulatory VaR does not incorporate the value that covered positions would gain or lose, in the absence of market moves, as they move toward expiration, which is known as time decay. Therefore, for certain portfolios the distribution of potential gains and losses estimated by the VaR model can produce a Regulatory VaR result that is not a loss.

### Regulatory VaR

The market risk related to all covered positions to which the Corporation is exposed is included in the total Regulatory VaR results. The majority of this portfolio is within the Global Markets segment. The table below presents the Regulatory VaR results by risk factors for the period end, average, high and low results.

**Table 14 - Market Risk - Total Regulatory VaR**

*(Dollars in millions)*

	10-day Holding Period			
	Three months ended			
	September 30, 2016			
	Period End	Average	High <sup>1</sup>	Low <sup>1</sup>
Foreign exchange	\$ 28	\$ 27	\$ 47	\$ 14
Interest rate	51	56	77	43
Credit	130	118	153	100
Equities	20	21	34	10
Commodities	20	20	34	14
Portfolio diversification	(178)	(175)	-	-
<b>Total Regulatory VaR</b>	<b>\$ 71</b>	<b>\$ 67</b>	<b>\$ 92</b>	<b>\$ 52</b>

<sup>1</sup>The High and Low for the total portfolio may have occurred during different trading days than the High and Low for the individual components. Therefore the amount of portfolio diversification, which is the difference between the total portfolio and the sum of the individual components, is not relevant for the High and Low results.

Trading limits on quantitative risk measures, including VaR, are independently set by Global Markets Risk Management and reviewed on a regular basis to ensure they remain relevant and within our overall risk appetite for market risks. Trading limits are reviewed in the context of market liquidity, volatility and strategic business priorities. Trading limits are set at both a granular level to ensure extensive

coverage of risks as well as at aggregated portfolios to account for correlations among risk factors. All trading limits are approved at least annually. Approved trading limits are stored and tracked in a centralized limits management system. Trading limit excesses are communicated to management for review. Certain quantitative market risk measures and corresponding limits have been identified as critical in the Corporation's Risk Appetite Statement. These risk appetite limits are reported on a daily basis and are approved at least annually by the ERC and the Board. The Corporation's risk appetite limits for market risk were not exceeded during the three months ended September 30, 2016.

In periods of market stress, Global Markets senior leadership is in daily communication to discuss losses, key risk positions and any limit excesses. As a result of this process, the businesses may selectively reduce risk.

### Backtesting

The accuracy of the VaR methodology is evaluated by backtesting, which compares the daily VaR results, utilizing a one-day holding period, against a comparable subset of trading revenue. A backtesting excess occurs when a trading loss exceeds the VaR for the corresponding day. These excesses are evaluated to understand the positions and market moves that produced the trading loss and to ensure that the VaR methodology accurately represents those losses. As our primary VaR statistic used for backtesting is based on a 99 percent confidence level and a one-day holding period, we expect one trading loss in excess of VaR every 100 days, or between two to three trading losses in excess of VaR over the course of a year. The number of backtesting excesses observed can differ from the statistically expected number of excesses if the current level of market volatility is materially different than the level of market volatility that existed during the three years of historical data used in the VaR calculation.

The trading revenue used for backtesting is defined by regulatory agencies in order to most closely align with the VaR component of the regulatory capital calculation. This revenue differs from total trading-related revenue in that it excludes revenue from trading activities that either does not generate market risk or the market risk cannot be included in VaR. Some examples of the types of revenue excluded for backtesting are fees, commissions, reserves, net interest income and intraday trading revenues.

We conduct daily backtesting on our portfolios, ranging from the total market-based portfolio to individual trading areas. Additionally, we conduct daily backtesting on the VaR results used for the regulatory capital calculations as well as VaR results for key legal entities, regions and risk factors. These results are reported to senior market risk management. Senior management regularly reviews and evaluates the results of these tests.

Backtesting excesses for our total Regulatory VaR results, utilizing a one-day holding period, did not occur during the three months prior to September 30, 2016, and occurred on two days in the twelve months prior to September 30, 2016. For additional information on backtesting, refer to *Trading Risk Management* within the MD&A section in the September 30, 2016 Form 10-Q.

### Stressed Value-at-Risk

Stressed VaR is a variation of VaR in which the historical window is not the previous three years but is calibrated to a continuous 12-month window that reflects a period of significant financial stress appropriate to the Corporation's current portfolio. Stressed VaR is calculated daily based on a 99 percent confidence level, a ten-day holding period and the same population of exposures as the Regulatory VaR. The Corporation utilizes a single model and process to calculate all Regulatory VaR, Stressed VaR, and Disclosure VaR statistics. The following table presents the Stressed VaR results for the period end, average, high and low calculated over a ten-day holding period.

**Table 15 - Market Risk - Total Regulatory Stressed VaR**

(Dollars in millions)

	10-day Holding Period			
	Three months ended September 30, 2016			
	Period End	Average	High	Low
Total Regulatory Stressed VaR	\$ 474	\$ 314	\$ 544	\$ 248

### Incremental Risk Charge

The incremental risk charge (IRC) model is one component of the regulatory capital calculation for market risk. The model is intended to capture the potential losses that non-securitized covered position credit products in the trading portfolio might experience over a one-year period of financial stress from defaults, ratings migration and significant basis risk factors. To calculate potential losses at the required 99.9 percent confidence level, the Corporation utilizes a Monte-Carlo simulation calibrated using relevant, available historical data for each risk factor in order to sample potential market scenarios. The model reflects the impact of concentrated risks, including issuer, sector, region and product basis risks, and assigns a higher potential loss to a concentrated portfolio than a more diversified portfolio with a similar credit profile. The model framework also captures the broad relationships between the different risk factors and is flexible enough to allow additional dependencies or risk factors to be incorporated in the future. The IRC model assumes a constant position and a one-year liquidity horizon.

The following table presents the period end, average, high and low IRC over the period as of September 30, 2016. The IRC value used for the regulatory capital calculation is based on the higher of the period end value or the average value of the preceding 12 weeks.

**Table 16 - Market Risk - Incremental Risk Charge**

	Three months ended September 30, 2016			
	Period End	Average	High	Low
Total incremental risk charge	\$ 330	\$ 398	\$ 437	\$ 330

**Comprehensive Risk Measure**

The Corporation’s comprehensive risk measure (CRM) is another component of the regulatory capital calculation for market risk. The CRM is comprised of a modeled component and a surcharge for the eligible positions in the correlation trading portfolio, primarily tranches on index and bespoke portfolios, and their corresponding hedges.

The modeled component of the CRM takes into account all of the risk factors that materially impact the value of the positions within the correlation trading portfolio. The model captures the complexity of these positions including the non-linear nature of the trade valuations, particularly during periods of market stress, and the impact of the joint evolution of the risk factors. The modeled component of the CRM utilizes the same Monte-Carlo simulation framework as our IRC model with the additional risk factors required for the correlation products in order to calculate the potential losses at the required 99.9 percent confidence level. The modeled component of the CRM, like the IRC model, assumes a constant position and a one-year liquidity horizon.

The CRM surcharge is calculated using two components. The first is the assessment made using the SFA, which calculates capital on securitization exposures based on the amount and the level of subordination available as credit support to each exposure. The second component of the surcharge is the capital for hedges of the correlation portfolio which are calculated under the specific risk standard charge framework. The surcharge is equal to eight percent of the larger of the net longs or shorts of these aggregated components.

The following table presents the period end, average, high and low values for the CRM over the period as of September 30, 2016. The CRM value used for the regulatory capital calculation is based on the higher of the period end value or the average value of the preceding 12 weeks.

**Table 17 - Market Risk - Comprehensive Risk Measure**

	Three months ended September 30, 2016			
	Period End	Average	High	Low
Total comprehensive risk measure	\$ 374	\$ 388	\$ 411	\$ 367

The following table presents the aggregate modeled amount of correlation trading positions as of September 30, 2016. Hedges to the correlation trading positions that are included in the modeled component of CRM are considered part of the aggregate correlation trading positions and are included in the table below. The values shown in the table are fair values.

**Table 18 - Market Risk - Correlation Trading Positions**

	September 30, 2016			
	Correlation Positions		Hedges	
Positions subject to comprehensive risk measure	\$	672	\$	395
Positions subject to securitization framework		1		-
<b>Total correlation trading positions</b>	<b>\$</b>	<b>673</b>	<b>\$</b>	<b>395</b>

The Corporation conducted an analysis to assess the validity of the IRC and CRM models and respective methodologies prior to being granted approval by the U.S. banking regulators to utilize the models. This analysis consisted of a comparison of alternative theories and approaches along with an understanding of the necessary assumptions and limitations of the models, as well as assessing the impact of stressing the calibrated parameters. This analysis was shared and discussed with the relevant regulatory agencies to ensure compliance with regulatory guidelines. The models are continually monitored to ensure that the implementation and applicability remain valid. We perform stress tests of these models on a regular basis. The calibration of these models is regularly reviewed. We incorporate relevant market data and changing market conditions on a regular basis. As with our other quantitative risk models, Stressed VaR, IRC and CRM models fall under the oversight of the RM subcommittee and adhere to its independent analysis and ongoing governance and standards policies.

### Trading Portfolio Stress Testing

Because the very nature of a VaR model suggests results can exceed our estimates and it is dependent on a limited historical window, we also stress test our portfolio using scenario analysis. This analysis estimates the change in the value of our trading portfolio that may result from abnormal market movements.

A set of scenarios, categorized as either historical or hypothetical, are computed daily for the overall trading portfolio and individual businesses. These scenarios include shocks to underlying market risk factors that may be well beyond the shocks found in the historical data used to calculate VaR. Historical scenarios simulate the impact of the market moves that occurred during a period of extended historical market stress. Generally, a multi-week period representing the most severe point during a crisis is selected for each historical scenario. Hypothetical scenarios provide simulations of the estimated portfolio impact from potential future market stress events. Scenarios are reviewed and updated in response to changing positions and new economic or political information. In addition, new or ad hoc scenarios are developed to address specific potential market events or particular vulnerabilities in the portfolio. The stress tests are reviewed on a regular basis and the results are presented to senior management. Stress testing for the trading portfolio is integrated with enterprise-wide stress testing and incorporated into the limits framework. The macroeconomic scenarios used for enterprise-wide stress testing purposes differ from the typical trading portfolio scenarios in that they have a longer time horizon and the results are forecasted over multiple periods for use in consolidated capital and liquidity planning. For additional information on enterprise-wide stress testing, refer to *Managing Risk* within the MD&A section in the November 1, 2016 8-K.

### EQUITY EXPOSURES IN THE BANKING BOOK

Equity exposures in the banking book are primarily held for strategic business purposes and comprised of a diversified portfolio of investments in Bank-Owned Life Insurance (BOLI), private equity investments and other equity investments primarily reported in other assets, as well as certain equity investments included in trading assets on the balance sheet that do not meet the criteria for market risk regulatory capital treatment. These positions are held either as direct investments or through a fund.

#### Accounting and Valuation

Marketable equity securities in the banking book are generally classified as available-for-sale (AFS) securities and measured at fair value with all changes in fair value recorded in AOCI. Certain equity investments in the portfolio are subject to investment-company accounting under GAAP, and accordingly, are carried at fair value with changes in fair value reported in equity investment income. At inception, the transaction price of an investment is generally considered to be the best indicator of fair value. Thereafter, valuation is based on an assessment of each individual investment using methodologies that include publicly traded comparable companies derived by multiplying a key performance metric (e.g., earnings before interest, taxes, depreciation and amortization) of the portfolio company by the relevant valuation multiple observed for comparable companies, acquisition companies, entry-level multiples and discounted cash flows, and are subject to appropriate discounts for lack of liquidity or marketability. Certain factors that may influence changes in fair value include, but are not limited to, recapitalizations, subsequent rounds of financing and offerings in the equity or debt capital markets. For fund investments, we generally record the fair value of our proportionate interest in the fund's capital as reported by the fund's respective manager(s). The Corporation may elect to account for certain private equity investments that are not in an investment company under the fair value option as this measurement basis is consistent with applicable accounting guidance for similar investments that qualify for investment-company accounting. Remaining non-marketable equity investments are accounted for using either the equity method or cost method, depending on the size and nature of the Corporation's ownership interest. For additional information on fair value accounting and valuation techniques, refer to *Note 1 – Summary of Significant Accounting Principles* in the November 1, 2016 8-K and *Note 14 – Fair Value Measurements* in the September 30, 2016 Form 10-Q.

Under Basel 3, approaches to determining risk weights for equity investments in the banking book vary based on the type of exposure. If the equity exposure is to an investment fund, the Corporation applies the full look-through approach, the simple modified look-through approach or the alternative modified look-through approach. For all other equity investments in the banking book, the Corporation uses the simple risk weight approach and applies the appropriate multiplier to each exposure according to the prescribed regulatory percentages.

## Equity Exposures

The following table presents the carrying values, fair values, exposures and RWA of the Corporation's equity investments by risk weight categories as of September 30, 2016.

	Carrying Value	Fair Value	Exposure <sup>3</sup>	Risk-Weighted Assets	Risk Weight %
<b>Simple Risk Weight Approach:</b>					
0% Risk Weight <sup>1</sup>	\$ 5,272	\$ 5,272	\$ 5,272	\$ -	0%
20% Risk Weight	571	571	571	114	20%
Community Development Equity Exposures	6,481	6,481	6,526	6,526	100%
Publicly Traded Equity Exposures <sup>2</sup>	872	872	874	874	100%
Non-publicly Traded Equity Exposures <sup>2</sup>	16,595	17,838	17,902	17,902	100%
600% Risk Weight Equity Exposures Under the SRWA	10	10	14	82	600%
<b>Total Simple Risk Weight Approach</b>	<b>29,802</b>	<b>31,046</b>	<b>31,159</b>	<b>25,499</b>	<b>82%</b>
<b>Equity Exposures to Investment Funds:</b>					
Full Look-through Approach	24,125	24,125	24,523	9,394	38%
<b>Total Equity Exposures to Investment Funds</b>	<b>24,125</b>	<b>24,125</b>	<b>24,523</b>	<b>9,394</b>	<b>38%</b>
<b>Total Equity Exposures</b>	<b>\$ 53,927</b>	<b>\$ 55,170</b>	<b>\$ 55,682</b>	<b>\$ 34,893</b>	<b>63%</b>

<sup>1</sup> Consists of Federal Reserve Bank stock

<sup>2</sup> Equity exposures within the 300% and 400% risk weight categories were risk-weighted at 100% due to the aggregate carrying value of such exposures not exceeding the total capital threshold for higher risk weighting.

<sup>3</sup> Includes off-balance sheet unfunded commitments for equity investments of \$1.4B.

For additional information on exposure and RWA of the Corporation's equity investments, refer to *Schedule R "Equity Exposures"* in Bank of America's September 30, 2016 Regulatory Capital Reporting for Institutions Subject to the Advanced Capital Adequacy Framework — FFIEC 101.

Total cumulative net realized gains arising from the sale and liquidation of equity investments were \$138 million for the quarter ended September 30, 2016.

Total unrealized gains on AFS equity investments recognized in AOCI were \$29 million of which \$11 million and \$5 million were included in Tier 1 capital and Tier 2 capital, respectively, for the quarter ended September 30, 2016.

## OPERATIONAL RISK OVERVIEW

The Corporation defines operational risk as the risk of loss resulting from inadequate or failed internal processes, people and systems or from external events. Operational risk may occur anywhere in the Corporation, including third-party business processes, and is not limited to operations functions. Effects may extend beyond financial losses and may result in reputational risk impacts. Operational risk includes legal risk. Successful operational risk management is particularly important to diversified financial services companies because of the nature, volume and complexity of the financial services business. Operational risk is a significant component in the calculation of total RWA used in the Basel 3 capital estimate under the Advanced approaches.

Where appropriate, insurance policies are purchased to mitigate the impact of operational losses. These insurance policies are explicitly incorporated in the structural features of operational risk evaluation. As insurance recoveries, especially given recent market events, are subject to legal and financial uncertainty, the inclusion of these insurance policies is subject to reductions in their expected mitigating benefits.

### Advanced Measurement Approach

The Advanced Measurement Approach (AMA) is used to quantify operational risk capital requirements. The Corporation's AMA methodology follows a loss distribution approach and is based on tested statistical methods using more than 10 years of internal loss data for both frequency and severity fitting, and a selective sample from more than 8 years of external loss data for severity fitting. Capital calculations include the mitigation benefit provided by the Corporation's insurance programs subject to qualitative adjustment. Capital requirements are calculated at a unit-of-measure which appropriately reflects the range of activities and the variety of operational loss events to which the Corporation or reporting legal entity is exposed. Unit-of-measure results are aggregated using conservative correlation assumptions. The aggregation step takes into account the probability of simultaneous large losses occurring and results in the diversified operational risk capital requirement for the Corporation. The capital requirements are then adjusted using Business Environment and Internal Control Factors (BEICFs) to reflect the quality of the current and forward-looking view of the control environment. The application of BEICFs cannot result in a reduction in the capital requirement. Under the Federal Reserve's reservation of authority, they may require us to hold an amount of capital greater than otherwise required under the capital rules if they determine that our risk-based capital requirement using our internal analytical models is not commensurate with our credit, market, operational or



other risks. For additional information regarding operational risk and the advanced measurement approach, refer to *Operational Risk Management* section of the November 1, 2016 8-K and *Capital Management* within the MD&A section in the September 30, 2016 Form 10-Q.

## INTEREST RATE RISK MANAGEMENT FOR THE BANKING BOOK

Interest rate risk represents the most significant market risk exposure to our banking book balance sheet. Interest rate risk is measured as the potential change in net interest income caused by movements in market interest rates. Client-facing activities, primarily lending and deposit-taking, create interest rate sensitive positions on our balance sheet.

### Risk Measurement

We prepare forward-looking forecasts of net interest income. The baseline forecast takes into consideration expected future business growth, ALM positioning and the direction of interest rate movements as implied by the market-based forward curve. We then measure and evaluate the impact that alternative interest rate scenarios have on the baseline forecast in order to assess interest rate sensitivity under varied conditions. The net interest income forecast is frequently updated for changing assumptions and differing outlooks based on economic trends, market conditions and business strategies. Thus, we continually monitor our balance sheet position in order to maintain an acceptable level of exposure to interest rate changes.

The interest rate scenarios that we analyze incorporate balance sheet assumptions such as loan and deposit growth and pricing, changes in funding mix, product repricing and maturity characteristics. Our overall goal is to manage interest rate risk so that movements in interest rates do not significantly adversely affect earnings and capital.

Below is the pretax dollar impact to forecasted net interest income over the next 12 months from September 30, 2016, resulting from instantaneous parallel and non-parallel shocks to the market-based forward curve. While the scenarios reflect all currencies in aggregate, U.S. dollar represents materially all of the banking book net interest income sensitivity.

**Table 20 - Estimated Banking Book Net Interest Income Sensitivity**

Curve Change	Short Rate (bps)	Long Rate (bps)	September 30, 2016
<i>(Dollars In millions)</i>			
<b>Parallel shifts</b>			
+100 bps instantaneous shift	+100	+100	\$5,313
-50 bps instantaneous shift	-50	-50	(3,773)
<b>Flatteners</b>			
Short-end instantaneous change	+100	-	3,294
Long-end instantaneous change	-	-50	(1,473)
<b>Steeepeners</b>			
Short-end instantaneous change	-50	-	(2,264)
Long-end instantaneous change	-	+100	2,079

For additional information on interest rate risk management for the banking book, including the impact to earnings from upward and downward rate shocks, refer to *Interest Rate Risk Management for the Banking Book* within the MD&A section in the September 30, 2016 Form 10-Q.

## SUPPLEMENTARY LEVERAGE RATIO

Basel 3 also requires Advanced approaches institutions to disclose a SLR. The numerator of the SLR is quarter-end Basel 3 Tier 1 capital reflective of Basel 3 numerator transition provisions. The denominator is total leverage exposure based on the daily average of the sum of on-balance sheet exposures less permitted Tier 1 deductions, as well as the simple average of certain off-balance sheet exposures, as of the end of each month in a quarter. Off-balance sheet exposures primarily include undrawn lending commitments, letters of credit, potential future derivative exposures and repo-style transactions. Total leverage exposure includes the effective notional principal amount of credit derivatives and similar instruments through which credit protection is sold. The credit conversion factors (CCFs) applied to certain off-balance sheet exposures conform to the graduated CCF utilized under the Basel 3 Standardized approach, but are subject to a minimum 10 percent CCF. Effective January 1, 2018, the Corporation will be required to maintain a minimum SLR of 3.0 percent, plus a leverage buffer of 2.0 percent, in order to avoid certain restrictions on capital distributions and discretionary bonuses. Insured depository institution subsidiaries of BHCs, including BANA, will be required to maintain a minimum 6.0 percent SLR to be considered “well-capitalized” under the PCA framework.

The following tables present the Corporation’s Basel 3 supplementary leverage ratio and related components as of September 30, 2016.

<b>Table 21 - Summary Comparison of Accounting Assets and Total Leverage Exposure</b>	September 30, 2016
<i>(Dollars in millions)</i>	
Total consolidated assets as reported in published financial statements	\$ 2,198,884
Adjustment for derivative transactions	301,105
Adjustment for repo-style transactions	18,362
Adjustment for off-balance sheet exposures	271,133
LESS: Amounts deducted from tier 1 capital	79,678
LESS: Adjustments for frequency calculations	5,012
<b>Total leverage exposure</b>	<b>\$ 2,704,794</b>

<b>Table 22 - U.S. Supplementary Leverage Ratio</b>	September 30, 2016
<i>(Dollars in millions)</i>	
<b>On-balance sheet exposures</b>	
On-balance sheet assets (excluding on-balance sheet assets for repo-style transactions and derivative exposures, but including cash collateral received in derivative transactions)	\$ 1,926,062
LESS: Amounts deducted from tier 1 capital	79,678
<b>Total on-balance sheet exposures</b>	<b>1,846,383</b>
<b>Derivative exposures</b>	
Replacement cost for derivative exposures (that is, net of cash variation margin)	59,790
Add-on amounts for potential future exposure (PFE) for derivative exposures	222,639
Gross up for cash collateral posted if deducted from on balance sheet assets, except cash variation margin	5,334
LESS: Exempted CCP leg of client-cleared transactions	6,521
Effective notional principal amount of sold credit protection	840,061
LESS: Effective notional principal amount offsets and PFE adjustments for sold credit protection	766,638
<b>Total derivative exposures</b>	<b>354,664</b>
<b>Repo-style transactions</b>	
On-balance sheet assets for repo-style transactions (including gross value of receivables for reverse repurchase transactions)	352,730
LESS: Reduction of the gross value of receivables in reverse repurchase transactions by cash payables in repurchase transactions under netting agreements	138,478
Counterparty credit risk for all repo-style transactions	18,362
<b>Total exposures for repo-style transactions</b>	<b>232,613</b>
<b>Other off-balance sheet exposures</b>	
Off-balance sheet exposures at gross notional amounts	874,876
LESS: Adjustments for conversion to credit equivalent amounts	603,743
<b>Other off-balance sheet exposures</b>	<b>271,133</b>
<b>Capital and Total Leverage Exposure</b>	
Tier 1 capital	191,435
<b>Total leverage exposure</b>	<b>\$ 2,704,794</b>
<b>Supplementary leverage ratio</b>	<b>7.08%</b>

## APPENDIX

Bank of America's Forms 10-Q and November 1, 2016 8-K contain pertinent information related to the Basel 3 disclosure requirements. A summary of the references made in the preceding disclosure can be found in the following table.

**References to Form 10-Q**

<b>Section</b>	<b>Location</b>
<i>Business Overview</i>	<i>Executive Summary</i>
<i>Allowance for Credit Losses</i>	<i>MD&amp;A</i>
<i>Capital Management</i>	<i>MD&amp;A</i>
<i>Credit Risk Management</i>	<i>MD&amp;A</i>
<i>Interest Rate Risk Management for the Banking Book</i>	<i>MD&amp;A</i>
<i>Liquidity Risk</i>	<i>MD&amp;A</i>
<i>Managing Risk</i>	<i>MD&amp;A</i>
<i>Market Risk Management</i>	<i>MD&amp;A</i>
<i>Trading Risk Management</i>	<i>MD&amp;A</i>
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<i>Year-to-Date Average Balances and Interest Rates – FTE Basis</i>	<i>Table 12</i>
<i>Bank of America Corporation Regulatory Capital under Basel 3</i>	<i>Table 13</i>
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<i>Federal Funds Sold or Purchased, Securities Financing Agreements and Short-term Borrowings</i>	<i>Note 9</i>
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<i>Shareholders' Equity</i>	<i>Note 11</i>
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**References to Form 8-K**

<b>Section</b>	<b>Location</b>
<i>Business Overview</i>	<i>Executive Summary</i>
<i>Credit Risk Management</i>	<i>MD&amp;A</i>
<i>Managing Risk</i>	<i>MD&amp;A</i>
<i>Capital Management</i>	<i>MD&amp;A</i>
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