UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-Q

(Mark One)

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[✓] QUA	RTERLY REPORT PURSUANT TO SECT EXCHANGE ACT For the Quarterly Period End	OF 1934	JRITIES
	or		
[]TRA	NSITION REPORT PURSUANT TO SECT EXCHANGE ACT For the transition period	OF 1934	IRITIES
	Commission file 1-6523	number:	
	Exact name of registrant as sp Bank of America Co		
	State or other jurisdiction of incor Delaware	. •	
	IRS Employer Identif 56-090660		
	Address of principal ex Bank of America Corp 100 N. Tryon S Charlotte, North Card	orate Center Street	
	Registrant's telephone number (704) 386-56		
Fo Indicate by check mark whether the registrant 12 months (or for such shorter period that the		Section 13 or 15(d) of the Securitiend (2) has been subject to such filing	es Exchange Act of 1934 during the preceding
Indicate by check mark whether the registrar 232.405 of this chapter) during the preceding	t has submitted electronically every Interactive	ve Data File required to be submitted registrant was required to submit su	ed pursuant to Rule 405 of Regulation S-T (§ ch files).
Indicate by check mark whether the registran company. See the definitions of "large acceler			
Large accelerated filer ☑	Accelerated filer □	Non-accelerated filer □	Smaller reporting company □
	E	merging growth company □	
	heck mark if the registrant has elected not to a accounting standards provided pursuant to Se		or complying with any new or revised financial
Indicate by check mark whether the registrant	is a shell company (as defined in Exchange A Yes □ No	•	
On April 25, 2019, there were 9,508,203,218 s	hares of Bank of America Corporation Commo	on Stock outstanding.	

Bank of America 1

Bank of America Corporation and Subsidiaries March 31, 2019 Form 10-Q

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Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

Bank of America Corporation (the "Corporation") and its management may make certain statements that constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. These statements can be identified by the fact that they do not relate strictly to historical or current facts. Forward-looking statements often use words such as "anticipates," "targets," "expects," "hopes," "estimates," "intends," "plans," "goals," "believes," "continue" and other similar expressions or future or conditional verbs such as "will," "may," "might," "should," "would" and "could." Forward-looking statements represent the Corporation's current expectations, plans or forecasts of its future results, revenues, expenses, efficiency ratio, capital measures, strategy and future business and economic conditions more generally, and other future matters. These statements are not guarantees of future results or performance and involve certain known and unknown risks, uncertainties and assumptions that are difficult to predict and are often beyond the Corporation's control. Actual outcomes and results may differ materially from those expressed in, or implied by, any of these forward-looking statements

You should not place undue reliance on any forward-looking statement and should consider the following uncertainties and risks, as well as the risks and uncertainties more fully discussed under Item 1A. Risk Factors of our 2018 Annual Report on Form 10-K and in any of the Corporation's subsequent Securities and Exchange Commission filings: the Corporation's potential claims, damages, penalties, fines and reputational damage resulting from pending or future litigation, regulatory proceedings and enforcement actions; the possibility that the Corporation's future liabilities may be in excess of its recorded liability and estimated range of possible loss for litigation, regulatory, and representations and warranties exposures; the possibility that the Corporation could face increased servicing, securities, fraud, indemnity, contribution or other claims from one or more counterparties, including trustees, purchasers of loans, underwriters, issuers, other parties involved in securitizations, monolines or private-label and other investors; the Corporation's ability to resolve representations and warranties repurchase and related claims, including claims brought by investors or trustees seeking to avoid the statute of limitations for repurchase claims; the risks related to the discontinuation of the London InterBank Offered Rate and other reference rates, including increased expenses and litigation and the effectiveness of hedging strategies; uncertainties about the financial stability and growth rates of non-U.S. jurisdictions, the risk that those jurisdictions may face difficulties servicing their sovereign debt, and related stresses on financial markets, currencies and trade, and the Corporation's exposures to such risks, including direct, indirect and operational; the impact of U.S. and global interest rates, inflation, currency exchange rates, economic conditions, trade policies, including tariffs, and potential geopolitical instability, the impact of the interest

rate environment on the Corporation's business, financial condition and results of operations; the possibility that future credit losses may be higher than currently expected due to changes in economic assumptions, customer behavior, adverse developments with respect to U.S. or global economic conditions and other uncertainties; the Corporation's ability to achieve its expense targets and expectations regarding net interest income, net charge-offs, effective tax rate, loan growth or other projections; adverse changes to the Corporation's credit ratings from the major credit rating agencies; an inability to access capital markets or maintain deposits; estimates of the fair value and other accounting values, subject to impairment assessments, of certain of the Corporation's assets and liabilities, including the Corporation's merchant services joint venture; the estimated or actual impact of changes in accounting standards or assumptions in applying those standards, including the new credit loss accounting standard; uncertainty regarding the content, timing and impact of regulatory capital and liquidity requirements; the impact of adverse changes to total loss-absorbing capacity requirements and/or global systemically important bank surcharges; the success of our reorganization of Merrill Lynch, Pierce, Fenner & Smith Incorporated, which is expected to occur in the second quarter of 2019; the potential impact of actions of the Board of Governors of the Federal Reserve System on the Corporation's capital plans, the effect of regulations, other guidance or additional information on the impact from the Tax Cuts and Jobs Act; the impact of implementation and compliance with U.S. and international laws, regulations and regulatory interpretations, including, but not limited to, recovery and resolution planning requirements, Federal Deposit Insurance Corporation assessments, the Volcker Rule, fiduciary standards and derivatives regulations; a failure in or breach of the Corporation's operational or security systems or infrastructure, or those of third parties, including as a result of cyber attacks; the impact on the Corporation's business, financial condition and results of operations from the planned exit of the United Kingdom from the European Union; the impact of a federal government shutdown and uncertainty regarding the federal government's debt limit; and other similar matters.

Forward-looking statements speak only as of the date they are made, and the Corporation undertakes no obligation to update any forward-looking statement to reflect the impact of circumstances or events that arise after the date the forwardlooking statement was made.

Notes to the Consolidated Financial Statements referred to in the Management's Discussion and Analysis of Financial Condition and Results of Operations (MD&A) are incorporated by reference into the MD&A. Certain prior-period amounts have been reclassified to conform to current-period presentation. Throughout the MD&A. the Corporation uses certain acronyms and abbreviations which are defined in the

Executive Summary

Business Overview

The Corporation 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. Our principal executive offices are located in Charlotte, North Carolina. Through our banking and various nonbank subsidiaries throughout the U.S. and in international markets, we provide a diversified range of banking and nonbank financial services and products through four business segments: Consumer Banking, Global Wealth & Investment Management (GWIM), Global Banking and Global Markets, with the remaining operations recorded in All Other. We operate our banking activities primarily under the Bank of America, National Association (Bank of America, N.A. or BANA) charter. At March 31, 2019, the Corporation had \$2.4 trillion in assets and a headcount of approximately 205,000 employees.

As of March 31, 2019, we served clients through operations across the U.S., its territories and approximately 35 countries. Our retail banking footprint covers approximately 86 percent of the U.S. population, and we serve approximately66 million consumer and small business clients with approximately4,400 retail financial centers, approximately 16,400 ATMs, and leading digital banking platforms (www.bankofamerica.com) with more than 37 million active users, including over 27 million active mobile users. We offer industry-leading support to approximatelythree million small business owners. Our wealth management businesses, with client balances of \$2.8 trillion, provide tailored solutions to meet client needs through a full set of investment management, brokerage, banking, trust and retirement products. We are a global leader in corporate and investment banking and trading across a broad range of asset classes serving corporations, governments, institutions and individuals around the world.

Recent Developments

Capital Management

During the first quarter of 2019, we repurchased \$6.3 billion of common stock pursuant to the Board of Directors' (the Board) repurchase authorizations. For additional information, see Capital Management on page 16.

U.K. Exit from the EU

A referendum held in the U.K. in 2016 resulted in a majority vote in favor of exiting the European Union (EU). In March 2017, the U.K. notified the EU of its intention to withdraw from the EU. In April 2019, the deadline for the U.K.'s withdrawal from the EU was extended to October 31, 2019. The U.K.'s withdrawal could occur

sooner if the U.K. passes a withdrawal agreement prior to the deadline. Negotiations between the U.K. and the EU regarding the terms and conditions of the withdrawal are ongoing.

We conduct business in Europe, the Middle East and Africa primarily through our subsidiaries in the U.K., Ireland and France. In connection with the U.K.'s intention to withdraw from the EU, we have implemented the following changes to how we operate in the region, including establishing a bank and broker-dealer in the FII

- Bank of America Merrill Lynch International Designated Activity Company (BAMLI DAC), our main banking entity in Ireland, was established in late 2018 through the merger of two entities. BAMLI DAC provides banking services in the European Economic Area, the Middle East and Africa directly and through its branch network. Reliance on the EU's cross-border merger directive enabled BAMLI DAC to migrate client positions, with decreased legal complexity and operational risk.
- BofA Securities Europe SA (BofASE), a newly formed investment firm in France, was set up to deliver investment services in the European Economic Area excluding the U.K. and is now operational.
- Merrill Lynch International (MLI) continues to be our primary investment firm in the U.K.
- BANA, including its London branch, continues to conduct operations in the EU and the U.K.

These changes will enable us to continue to service our clients with minimal disruption, retain operational flexibility, minimize transition risks and maximize legal entity efficiencies, independent of the ultimate outcome and timing of the withdrawal.

To facilitate client readiness and mitigate operational risk, BofASE and BAMLI DAC continue to execute internal and client-related testing activities across product and business lines. Migration of client activity to BofASE and BAMLI DAC began in February and March 2019, respectively. While we have taken measures to minimize operational disruption and prepare for various potential outcomes of the U.K.'s withdrawal from the EU, the preparedness of our counterparties and the relevant financial markets infrastructure remain outside our control. The global economic impact of the U.K.'s withdrawal from the EU remains uncertain and could result in regional and global financial market disruptions. In preparation for the withdrawal, we will continue to assess potential risks, including operational, regulatory and legal risks.

Financial Highlights

Effective January 1, 2019, we made certain financial reporting changes and reclassifications, which were adopted on a retrospective basis. The changes and reclassifications reflect changes to both the format of the Consolidated Statement of Income and segment allocations. For additional information, see the Corporation's Current Report on Form 8-K filed with the Securities and Exchange Commission (SEC) on April 1, 2019.

Table 1 Summary Income Statement and Selected Financial Data

	Three Months Ended March 31						
(Dollars in millions, except per share information)		2019		2018			
Income statement							
Net interest income	\$	12,375	\$	11,769			
Noninterest income		10,629		11,301			
Total revenue, net of interest expense		23,004		23,070			
Provision for credit losses		1,013		834			
Noninterest expense		13,224		13,842			
Income before income taxes		8,767		8,394			
Income tax expense		1,456		1,476			
Net income		7,311		6,918			
Preferred stock dividends		442		428			
Net income applicable to common shareholders	\$	6,869	\$	6,490			
Per common share information							
Earnings	\$	0.71	\$	0.63			
Diluted earnings		0.70		0.62			
Dividends paid		0.15		0.12			
Performance ratios							
Return on average assets		1.26 %		1.21 %			
Return on average common shareholders' equity		11.42		10.85			
Return on average common shareholders' equity Return on average tangible common shareholders' equity (1)		11.42 16.01		10.85 15.26			

Balance sheet	March 31 2019		D	December 31 2018		
Total loans and leases	\$	945,615	\$	946,895		
Total assets		2,377,164		2,354,507		
Total deposits		1,379,337		1,381,476		
Total common shareholders' equity		244,684		242,999		
Total shareholders' equity		267,010		265,325		

⁽¹⁾ Return on average tangible common shareholders' equity is a non-GAAP financial measure. For more information and a corresponding reconciliation to accounting principles generally accepted in the United States of America (GAAP) financial measures, see Non-GAAP Reconciliations on page 42.

Net income was \$7.3 billion, or \$0.70 per diluted share, for thethree months ended March 31, 2019 compared to \$6.9 billion, or \$0.62 per diluted share, for the same period in 2018. The improvement in net income was driven by an increase in net interest income and a decline in noninterest expense, partially offset by lower noninterest income and an increase in the provision for credit losses.

Total assets increased \$22.7 billion from December 31, 2018 to \$2.4 trillion primarily driven by higher trading account assets due to increased client balances in the Equities businesses in *Global Markets* and an increase in other assets as a result of the implementation of the new lease accounting standards. These increases were partially offset by a decrease in customer and other receivables due to client activity in *Global Markets*.

Total liabilities increased \$21.0 billion from December 31, 2018 to \$2.1 trillion primarily driven by higher trading account liabilities due to increased client activity in *Global Markets* and an increase in other liabilities due to the implementation of the new lease accounting standards, partially offset by a decrease in short-term borrowings due to lower funding needs as a result of deposit growth. Shareholders' equity increased \$1.7 billion from December 31, 2018 primarily due to net income and market value increases on debt securities partially offset by returns of capital to shareholders through common stock repurchases and common and preferred stock dividends.

Net Interest Income

Net interest income increased \$606 million to \$12.4 billion for the three months ended March 31, 2019 compared to the same period in 2018. Net interest yield on a fully taxable-equivalent (FTE) basis increased 9 basis points (bps) to 2.51 percent. These increases were primarily driven by higher interest rates as well as loan and deposit growth, modestly offset by loan spread compression. We expect full-year 2019 net interest income to increase by approximately three percent compared to full-year 2018 assuming the interest rate forward curve as of April 16, 2019 when the first quarter results were announced, and loan and deposit growth consistent with the current economic outlook. For more information on net interest yield and the FTE basis, see Supplemental Financial Data on page 5, and for more information on interest rate risk management, see Interest Rate Risk Management for the Banking Book on page 39.

Noninterest Income

Table 2 Noninterest Income

	Three Months Ended March 31						
(Dollars in millions)	:	2019	2018				
Fees and commissions:							
Card income	\$	1,375	\$	1,402			
Service charges		1,839		1,921			
Investment and brokerage services		3,360		3,664			
Investment banking fees		1,264		1,353			
Total fees and commissions		7,838		8,340			
Trading account income		2,338		2,553			
Other income		453		408			
Total noninterest income	\$	10,629	\$	11,301			

Noninterest income decreased \$672 million to \$10.6 billion for the three months ended March 31, 2019 compared to the same period in 2018. The following highlights the significant changes.

- Service charges decreased \$82 million primarily driven by lower treasury services-related revenue and credit fees in Global Banking, as well as lower overdraft fees due to policy changes and lower ATM volume in Consumer Banking.
- Investment and brokerage services income decreased \$304 million primarily due
 to lower average market valuations compared to the same period in 2018 and
 declines in transactional revenue and assets under management (AUM) pricing,
 partially offset by the positive impact of AUM flows. The decline in transactional
 revenue was driven by lower market volatility resulting in lower client activity.
- Investment banking fees decreased \$89 million primarily due to declines in debt and equity underwriting fees, partially offset by an increase in advisory fees.
- Trading account income decreased \$215 million primarily due to lower client activity across fixed-income, currencies and commodities (FICC) and Equities.

Provision for Credit Losses

The provision for credit losses increased \$179 million to \$1.0 billion for the three months ended March 31, 2019 compared to the same period in 2018, primarily driven by a single-name utility client charge-off in the current-year period and energy reserve releases in commercial in the prior-year period, a slower pace of portfolio improvement in consumer real estate, and portfolio seasoning in the U.S. credit card portfolio. For more information on the provision for credit losses, see Provision for Credit Losses on page 35.

Noninterest Expense

Table 3 Noninterest Expense

	Three Months Ended March 31						
(Dollars in millions)		2019		2018			
Compensation and benefits	\$	8,249	\$	8,480			
Occupancy and equipment		1,605		1,607			
Information processing and communications		1,164		1,165			
Product delivery and transaction related		662		756			
Marketing		442		345			
Professional fees		360		381			
Other general operating		742		1,108			
Total noninterest expense	\$	13,224	\$	13,842			

Noninterest expense decreased \$618 million to \$13.2 billion for the three months ended March 31, 2019 compared to the same period in 2018. The decrease was primarily due to efficiency savings, lower Federal Deposit Insurance Corporation (FDIC) expense and lower amortization of intangibles, partially offset by increased investments in the businesses.

Income Tax Expense

Table 4 Income Tax Expense

	 Three Months Ended March 31							
(Dollars in millions)	 2019	2018						
Income before income taxes	\$ 8,767 \$	8,394						
Income tax expense	1,456	1,476						
Effective tax rate	16.6 %	17.6%						

The effective tax rates for the three months ended March 31, 2019 and 2018 were primarily driven by our recurring tax preference benefits and tax benefits from deductions associated with share-based compensation. We expect the effective tax rate for 2019 to be approximately 19 percent, absent unusual items.

Supplemental Financial Data

In this Form 10-Q, we present certain non-GAAP financial measures. Non-GAAP financial measures exclude certain items or otherwise include components that differ from the most directly comparable measures calculated in accordance with GAAP. Non-GAAP financial measures are provided as additional useful information to assess our financial condition, results of operations (including period-to-period operating performance) or compliance with prospective regulatory requirements. These non-GAAP financial measures are not intended as a substitute for GAAP financial measures and may not be defined or calculated the same way as non-GAAP financial measures used by other companies.

We view net interest income and related ratios and analyses on an FTE basis, which when presented on a consolidated basis are non-GAAP financial measures. To derive the FTE basis, net interest income is adjusted to reflect tax-exempt income on an equivalent before-tax basis with a corresponding increase in

income tax expense. For purposes of this calculation, we use the federal statutory tax rate of 21 percent and a representative state tax rate. Net interest yield, which measures the basis points we earn over the cost of funds, utilizes net interest income (and thus total revenue) on an FTE basis. We believe that presentation of these items on an FTE basis allows for comparison of amounts from both taxable and tax-exempt sources and is consistent with industry practices.

We may present certain key performance indicators and ratios excluding certain items (e.g., debit valuation adjustment (DVA) gains (losses)) which result in non-GAAP financial measures. We believe that the presentation of measures that exclude these items is useful because such measures provide additional information to assess the underlying operational performance and trends of our businesses and to allow better comparison of period-to-period operating performance.

We also evaluate our business based on certain ratios that utilize tangible equity, a non-GAAP financial measure. Tangible equity represents an adjusted shareholders' equity or common shareholders' equity amount which has been reduced by goodwill and intangible assets (excluding mortgage servicing rights (MSRs)), net of related deferred tax liabilities. These measures are used to evaluate our use of equity. In addition, profitability, relationship and investment models use both return on average tangible common shareholders' equity and return on average tangible shareholders' equity as key measures to support our overall growth goals. These ratios are as follows:

- Return on average tangible common shareholders' equity measures our net income applicable to common shareholders as a percentage of adjusted average common shareholders' equity. The tangible common equity ratio represents adjusted ending common shareholders' equity divided by total assets less goodwill and intangible assets (excluding MSRs), net of related deferred tax liabilities.
- Return on average tangible shareholders' equity measures our net income applicable to common shareholders as a percentage of adjusted average total shareholders' equity. The tangible equity ratio represents adjusted ending shareholders' equity divided by total assets less goodwill and intangible assets (excluding MSRs), net of related deferred tax liabilities.
- Tangible book value per common share represents adjusted ending common shareholders' equity divided by ending common shares outstanding.

We believe that the use of ratios that utilize tangible equity provides additional useful information because they present measures of those assets that can generate income. Tangible book value per common share provides additional useful information about the level of tangible assets in relation to outstanding shares of common stock.

The aforementioned supplemental data and performance measures are presented in Tables 5 and 6.

For more information on the reconciliation of these non-GAAP financial measures to the corresponding GAAP financial measures, see Non-GAAP Reconciliations on page 42.

Table 5 **Selected Quarterly Financial Data**

	2	019 Quarter		2018 Quarters							
(In millions, except per share information)		First		Fourth		Third		Second		First	
Income statement											
Net interest income	\$	12,375	\$	12,504	\$	12,061	\$	11,828	\$	11,769	
Noninterest income		10,629		10,173		10,663		10,721		11,301	
Total revenue, net of interest expense		23,004		22,677		22,724		22,549		23,070	
Provision for credit losses		1,013		905		716		827		834	
Noninterest expense		13,224		13,074		13,014		13,224		13,842	
Income before income taxes		8,767		8,698		8,994		8,498		8,394	
Income tax expense		1,456		1,420		1,827		1,714		1,476	
Net income		7,311		7,278		7,167		6,784		6,918	
Net income applicable to common shareholders		6,869		7,039		6,701		6,466		6,490	
Average common shares issued and outstanding		9,725.9		9,855.8		10,031.6		10,181.7		10,322.4	
		9,787.3		9,996.0		10,031.0		10,309.4		10,322.4	
Average diluted common shares issued and outstanding		5,767.5		9,990.0		10,170.0		10,309.4		10,472.7	
Performance ratios											
Return on average assets		1.26 %		1.24 %		1.23 %		1.17 %		1.21 %	
Four-quarter trailing return on average assets (1)		1.22		1.21		1.00		0.93		0.86	
Return on average common shareholders' equity		11.42		11.57		10.99		10.75		10.85	
Return on average tangible common shareholders' equity (2)		16.01		16.29		15.48		15.15		15.26	
Return on average shareholders' equity		11.14		10.95		10.74		10.26		10.57	
Return on average tangible shareholders' equity (2)		15.10		14.90		14.61		13.95		14.37	
Total ending equity to total ending assets		11.23		11.27		11.21		11.53		11.43	
Total average equity to total average assets		11.28		11.30		11.42		11.42		11.41	
Dividend payout		21.20		20.90		22.35		18.83		19.06	
Per common share data											
Earnings	\$	0.71	\$	0.71	\$	0.67	\$	0.64	\$	0.63	
Diluted earnings		0.70		0.70		0.66		0.63		0.62	
Dividends paid		0.15		0.15		0.15		0.12		0.12	
Book value		25.57		25.13		24.33		24.07		23.74	
Tangible book value (2)		18.26		17.91		17.23		17.07		16.84	
Market capitalization	\$	263,992	\$	238,251	\$	290,424	\$	282,259	\$	305,176	
Average balance sheet	Ψ	203,332	Ψ	200,201	Ψ	230,424	Ψ	202,233	Ψ	303,170	
	•	044.000	•	004.704	•	000 700	•	004.040	•	004.045	
Total loans and leases	\$	944,020	\$	934,721	\$	930,736	\$	934,818	\$	931,915	
Total assets		2,360,992		2,334,586		2,317,829		2,322,678		2,325,878	
Total deposits		1,359,864		1,344,951		1,316,345		1,300,659		1,297,268	
Long-term debt		196,726		201,056		203,239		199,448		197,787	
Common shareholders' equity		243,891		241,372		241,812		241,313		242,713	
Total shareholders' equity		266.217		263.698		264.653		265,181		265,480	
Asset quality											
Allowance for credit losses (3)	\$	10,379	\$	10,398	\$	10,526	\$	10,837	\$	11,042	
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Nonperforming loans, leases and foreclosed properties (4)		5,145		5,244		5,449		6,181		6,694	
Allowance for loan and lease losses as a percentage of total loans and leases outstanding (4)		1.02 %		1.02 %		1.05%		1.08 %		1.11 %	
Allowance for loan and lease losses as a percentage of total nonperforming loans and leases (4)		197		194		189		170		161	
Net charge-offs Annualized net charge-offs as a percentage of average loans and leases outstanding (4)	\$	991 0.43 %	\$	924 0.39 %	\$	932 0.40 %	\$	996 0.43 %	\$	911	
Capital ratios at period end (5)						, •					
Common equity tier 1 capital		11.6%		11.6%		11.4 %		11.4 %		11.3 %	
Tier 1 capital		13.1		13.2		12.9		13.0		13.0	
Total capital		15.1				14.7		14.8		14.8	
				15.1							
Tier 1 leverage		8.4		8.4 6.8		8.3 6.7		8.4 6.7		8.4	
Supplementary leverage ratio		6.8								6.8	
Tangible equity (2)		8.5		8.6		8.5		8.7		8.7	
Tangible common equity (2)		7.6		7.6		7.5		7.7		7.6	
Total loss-absorbing capacity and long-term debt metrics (6)											
Total loss-absorbing capacity to risk-weighted assets		24.8 %									
Total loss-absorbing capacity to supplementary leverage exposure		12.8									
Eligible long-term debt to risk-weighted assets		11.4									
Eligible long-term debt to supplementary leverage exposure		5.9									

Eligible long-term debt to supplementary leverage exposure

5.9

(1) Calculated as total net income for four consecutive quarters divided by annualized average assets for four consecutive quarters.

(2) Tangible equity ratios and tangible book value per share of common stock are non-GAAP financial measures. For more information on these ratios, seeSupplemental Financial Data on page 5 and for corresponding reconciliations to GAAP financial measures, see Non-GAAP Reconciliations on page 42.

(3) Includes the allowance for loan and lease losses and the reserve for unfunded lending commitments.

(4) Balances and ratios do not include loans accounted for under the fair value option. For additional exclusions from nonperforming loans, leases and foreclosed properties, se@onsumer Portfolio Credit Risk Management – Nonperforming Consumer Loans, Leases and Foreclosed Properties Activity on page 28 and corresponding Table 26 and Commercial Portfolio Credit Risk Management – Nonperforming Commercial Loans, Leases and Foreclosed Properties Activity on page 31 and corresponding Table 33.

- (5) For additional information, including which approach is used to assess capital adequacy, seeCapital Management on page 16.
 (6) Effective January 1, 2019, the Corporation became subject to minimum total loss-absorbing capacity and long-term debt requirements. For more information, seeCapital Management on page 16.

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Table 6 Quarterly Average Balances and Interest Rates - FTE Basis

			First	Quarter 2019					Quarter 2018	
		Average		Interest Income/	Yield/		Average		Interest Income/	Yield/
(Dollars in millions)	_	Balance		Expense	Rate		Balance		Expense	Rate
Earning assets										
Interest-bearing deposits with the Federal Reserve, non-U.S. central banks and other banks	\$	134,962	\$	506	1.52 %	\$	140,247	\$	422	1.22
Fime deposits placed and other short-term investments		8,453		59	2.82		10,786		61	2.31
Federal funds sold and securities borrowed or purchased under agreements to resell		274,308		1,195	1.77		248,320		622	1.02
Trading account assets		140,228		1,341	3.87		131,123		1,147	3.54
Debt securities		441,680		3,148	2.83		433,096		2,830	2.58
Loans and leases (1):										
Residential mortgage		210,174		1,862	3.55		204,830		1,782	3.48
Home equity		47,690		593	5.03		56,952		643	4.56
U.S. credit card		95,008		2,530	10.80		94,423		2,313	9.93
Direct/Indirect and other consumer (2)		90,430		821	3.69		95,292		728	3.10
Total consumer		443,302		5,806	5.29		451,497		5,466	4.89
U.S. commercial		316,089		3,349	4.29		299,850		2,717	3.68
Non-U.S. commercial		101,996		886	3.52		99,504		738	3.01
Commercial real estate (3)		60,859		702	4.68		59,231		587	4.02
Commercial lease financing		21,774		196	3.60		21,833		175	3.20
Total commercial		500,718		5,133	4.15		480,418		4,217	3.56
Total loans and leases		944,020		10,939	4.69		931,915		9,683	4.20
						_				
Other earning assets		67,667		1,135	6.80		84,345		984	4.72
Total earning assets (4)		2,011,318		18,323	3.68		1,979,832		15,749	3.21
Cash and due from banks		25,824					26,275			
Other assets, less allowance for loan and lease losses		323,850					319,771			
Total assets	\$	2,360,992				\$	2,325,878			
Interest-bearing liabilities										
U.S. interest-bearing deposits:										
Savings	\$	53,573	\$	1	0.01 %	\$	54,747	\$	1	0.01
NOW and money market deposit accounts		731,025		1,157	0.64		659,033		406	0.25
Consumer CDs and IRAs		41,791		74	0.72		41,313		33	0.33
Negotiable CDs, public funds and other deposits		65,974		367	2.25		40,639		157	1.56
Total U.S. interest-bearing deposits		892,363		1,599	0.73		795,732		597	0.30
Non-U.S. interest-bearing deposits:										
Banks located in non-U.S. countries		2,387		6	1.02		2,243		9	1.67
Governments and official institutions		178		_	0.11		1,154		_	0.02
Time, savings and other		64,212		190	1.20		67,334		154	0.92
Total non-U.S. interest-bearing deposits		66,777		196	1.19		70,731		163	0.93
Total for C.S. interest searing appears										
Total interest-bearing deposits		959,140		1,795	0.76		866,463		760	0.36
Federal funds purchased, securities loaned or sold under agreements to repurchase, short-term										
borrowings and other interest-bearing liabilities		265,163		1,852	2.83		279,801		1,135	1.64
Trading account liabilities		45,593		345	3.07		55,362		357	2.62
Long-term debt		196,726		1,803	3.69		197,787		1,578	3.22
Total interest-bearing liabilities (4)		1,466,622		5,795	1.60		1,399,413		3,830	1.11
-							430,805			
-		400,724								
Noninterest-bearing sources:		400,724 227,429					230,180			
Noninterest-bearing sources: Noninterest-bearing deposits						_	230,180 265,480			
Noninterest-bearing sources: Noninterest-bearing deposits Other liabilities (5)	\$	227,429				\$				
Noninterest-bearing sources: Noninterest-bearing deposits Other liabilities (5) Shareholders' equity Total liabilities and shareholders' equity	\$	227,429 266,217			2.08%	\$	265,480			2.10
Noninterest-bearing sources: Noninterest-bearing deposits Other liabilities (5) Shareholders' equity	\$	227,429 266,217				\$	265,480			2.10 ° 0.32

⁽¹⁾ Nonperforming loans are included in the respective average loan balances. Income on these nonperforming loans is generally recognized on a cost recovery

basis.
(2) Includes non-U.S. consumer loans of \$2.8 billion and \$2.9 billion in the first quarter of 2019 and 2018.
(3) Includes U.S. commercial real estate loans of \$56.4 billion and \$55.3 billion, and non-U.S. commercial real estate loans of \$4.5 billion and \$3.9 billion in the first quarter of 2019 and 2019.

^{2018. (4)} Interest income includes the impact of interest rate risk management contracts, which decreased interest income on the underlying assets by \$73 million in the first quarter of 2019 and 2018. Interest expense includes the impact of interest rate risk management contracts, which increased (decreased) interest expense on the underlying liabilities by \$50 million in the first quarter of 2019 and 2018. For more information, see Interest Rate Risk Management for the Banking Book on

page 39. (5) Includes \$31.4 billion and \$31.9 billion of structured notes and liabilities for the first quarter of 2019 and

<sup>2018.

(6)</sup> Net interest income includes FTE adjustments of \$153 million and \$150 million for the first quarter of 2019 and 2018.

Business Segment Operations

Segment Description and Basis of Presentation

We report our results of operations through the following four business segments: Consumer Banking, GWIM, Global Banking and Global Markets, with the remaining operations recorded in All Other. We manage our segments and report their results on an FTE basis. We periodically review capital allocated to our businesses and allocate capital annually during the strategic and capital planning processes. We utilize a methodology that considers the effect of regulatory capital requirements in addition to internal risk-based capital models. Our internal risk-based capital models use a risk-adjusted methodology incorporating each segment's credit,

market, interest rate, business and operational risk components. For more information on the nature of these risks, see Managing Risk on page 16. The capital allocated to the business segments is referred to as allocated capital. Allocated equity in the reporting units is comprised of allocated capital plus capital for the portion of goodwill and intangibles specifically assigned to the reporting unit. For more information, see *Note 8 — Goodwill and Intangible Assets* to the Consolidated Financial Statements.

For more information on our presentation of financial information on an FTE basis, see Supplemental Financial Data on page 5, and reconciliations to consolidated total revenue, net income and period-end total assets, see *Note 18 – Business Segment Information* to the Consolidated Financial Statements.

Consumer Banking

	 Deposits		Consumer Ler		Total Consumer I	Banking	
			Three Months Ended	March 31			
(Dollars in millions)	 2019	2018	2019	2018	2019	2018	% Change
Net interest income	\$ 4,307 \$	3,712	\$ 2,799 \$	2,765 \$	7,106 \$	6,477	10 %
Noninterest income:							
Card income	(7)	(7)	1,204	1,241	1,197	1,234	(3)
Service charges	1,020	1,044	_	_	1,020	1,044	(2)
All other income	232	130	77	95	309	225	37
Total noninterest income	1,245	1,167	1,281	1,336	2,526	2,503	1
Total revenue, net of interest expense	5,552	4,879	4,080	4,101	9,632	8,980	7
Provision for credit losses	46	41	928	894	974	935	4
Noninterest expense	2,640	2,720	1,719	1,828	4,359	4,548	(4)
Income before income taxes	2,866	2,118	1,433	1,379	4,299	3,497	23
Income tax expense	702	541	351	352	1,053	893	18
Net income	\$ 2,164 \$	1,577	\$ 1,082 \$	1,027 \$	3,246 \$	2,604	25
Effective tax rate (1)					24.5 %	25.5 %	
Net interest yield	2.52%	2.23 %	3.95%	4.08 %	3.96	3.71	
Return on average allocated capital	73	53	18	17	36	29	
Efficiency ratio	47.54	55.75	42.12	44.57	45.24	50.64	

Balance

Sheet									
			Three Months	End	ed March 31				
Average	 2019	2018	2019		2018		2019	2018	% Change
Total loans and leases	\$ 5,313	\$ 5,170	\$ 286,956	\$	274,387	\$	292,269	\$ 279,557	5 %
Total earning assets (2)	693,051	673,633	287,259		274,748		727,350	707,746	3
Total assets (2)	724,493	701,418	297,729		285,864		769,262	746,647	3
Total deposits	692,172	668,983	4,767		5,368		696,939	674,351	3
Allocated capital	12,000	12,000	25,000		25,000		37,000	37,000	_
	 	D 1 01	 •• • • • •		D 1 01	-		D 1 01	
Period end	 March 31 2019	December 31 2018	March 31 2019		December 31 2018		March 31 2019	December 31 2018	% Change
Total loans and leases	\$ 5,283	\$ 5,470	\$ 287,171	\$	288,865	\$	292,454	\$ 294,335	(1)%
Total earning assets (2)	717,753	694,672	287,661		289,249		752,620	728,813	3
Total assets (2)	748,742	724,019	298,562		299,970		794,510	768,881	3
Total deposits	716,345	691,666	5,382		4,480		721,727	696,146	4

⁽¹⁾ Estimated at the segment level

Consumer Banking, which is comprised of Deposits and Consumer Lending, offers a diversified range of credit, banking and investment products and services to consumers and small businesses. Deposits and Consumer Lending include the net impact of migrating customers and their related deposit, loan and investment asset balances between Deposits, Consumer Lending and GWIM, as well as other client-managed businesses. For more information about Consumer Banking, including our Deposits and Consumer Lending businesses, see Business Segment

Operations in the MD&A of the Corporation's 2018 Annual Report on Form 10-K

Consumer Banking Results

Net income for *Consumer Banking* increased \$642 million to \$3.2 billion for the three months ended March 31, 2019 compared to the same period in2018 primarily driven by higher net interest income and lower noninterest expense. Net interest income increased \$629 million to \$7.1 billion primarily due to the beneficial impact of an increase in investable assets as a result

only. (2) In segments and businesses where the total of liabilities and equity exceeds assets, we allocate assets from All Other to match the segments' and businesses' liabilities and allocated shareholders' equity. As a result, total earning assets and total assets of the businesses may not equal total Consumer Banking.

of higher interest rates, as well as an increase in deposits, pricing discipline and loan growth. Noninterest income of \$2.5 billion remained relatively unchanged.

The provision for credit losses increased \$39 million to \$974 million due to portfolio seasoning in the U.S. credit card portfolio. Noninterest expense decreased \$189 million to \$4.4 billion primarily driven by lower FDIC expense and operating efficiencies. These decreases were partially offset by investments in digital capabilities and business growth combined with investments in new financial centers and renovations.

The return on average allocated capital was36 percent, up from29 percent, driven by higher net income. For additional information on capital allocations, see Business Segment Operations on page 8.

Deposits

Net income for Deposits increased \$587 million to \$2.2 billion for the three months ended March 31, 2019 compared to the same period in 2018 driven by higher revenue and lower noninterest expense. Net interest income increased \$595 million to \$4.3 billion primarily due to the beneficial impact of an increase in investable assets as a result of higher deposits, and pricing discipline. Noninterest income increased \$78 million to \$1.2 billion primarily driven by results from asset and liability management (ALM) activities, partially offset by lower service charges.

The provision for credit losses increased \$5 million to \$46 million. Noninterest expense decreased \$80 million to \$2.6 billion primarily driven by lower FDIC expense and operating efficiencies. These decreases were partially offset by investments in digital capabilities and business growth combined with investments in new financial centers and renovations.

Average deposits increased \$23.2 billion to \$692.2 billion driven by strong organic growth. Growth in checking and money market savings of \$27.0 billion was partially offset by a decline in time deposits and traditional savings of \$3.6 billion.

Key Statistics - Deposits

	Three Months Ended March 31				
		2019		2018	
Total deposit spreads (excludes noninterest costs) (1)		2.38 %		2.00 %	
Period end					
Consumer investment assets (in millions) (2)	\$	210,930	\$	182,110	
Active digital banking users (units in thousands) (3)		37,034		35,518	
Active mobile banking users (units in thousands)		27,127		24,801	
Financial centers		4,353		4,452	
ATMs		16,378		16,011	

- (1) includes deposits field in Consumer Lending. (2) includes client brokerage assets, certain deposit sweep balances and AUM in*Consumer* Banking.
- (3) Active digital banking users represents mobile and online

Consumer investment assets increased \$28.8 billion driven by strong client flows and market performance. Active mobile banking users increased 2.3 million reflecting continuing changes in our customers' banking preferences. The number of financial centers declined by a net 99 reflecting changes in customer preferences to self-service options as we continue to optimize our consumer banking network and improve our cost to serve.

Consumer Lending

Net income for Consumer Lending increased \$55 million to \$1.1 billion for the three months ended March 31, 2019 compared to the same period in2018 driven by lower noninterest expense and modestly higher net interest income, partially offset by lower noninterest income. Net interest income increased \$34 million to \$2.8 billion primarily driven by higher interest rates and the impact of an increase in loan balances. Noninterest income decreased \$55 million to \$1.3 billion driven by lower card income and lower mortgage banking income.

The provision for credit losses increased \$34 million to \$928 million driven by portfolio seasoning in the U.S. credit card portfolio. Noninterest expense decreased \$109 million to \$1.7 billion primarily driven by operating efficiencies.

Average loans increased \$12.6 billion to \$287.0 billion primarily driven by increases in residential mortgages and U.S. credit card, partially offset by lower home equity and consumer vehicle loans.

Key Statistics - Consumer Lending

	Three Months Ended March 31								
(Dollars in millions)		2019	2018						
Total U.S. credit card (1)									
Gross interest yield		10.80 %	9.93 %						
Risk-adjusted margin		8.03	8.22						
New accounts (in thousands)		1,034	1,194						
Purchase volumes	\$	62,751 \$	61,347						
Debit card purchase volumes	\$	78,494 \$	76,052						

(1) In addition to the U.S. credit card portfolio in Consumer Banking, the remaining U.S. credit card portfolio is in GWIM.

During the three months ended March 31, 2019, total U.S. credit card riskadjusted margin decreased 19 bps, primarily driven by increased net charge-offs and higher credit card rewards costs. Total U.S. credit card purchase volumes increased \$1.4 billion to \$62.8 billion, and debit card purchase volumesincreased \$2.4 billion to \$78.5 billion, reflecting higher levels of consumer spending.

Key Statistics - Loan Production (1)

	Three Months Ended March 31							
(Dollars in millions)		2019						
Total (2):								
First mortgage	\$	11,460	\$	9,424				
Home equity		2,825		3,749				
Consumer Banking:								
First mortgage	\$	8,155	\$	5,964				
Home equity		2,485		3,345				

- (1) The loan production amounts represent the unpaid principal balance of loans and, in the case of home equity, the principal
- amount of the total line of credit.

 (2) In addition to loan production in Consumer Banking, there is also first mortgage and home equity loan production in

First mortgage loan originations in Consumer Banking and for the total Corporation increased \$2.2 billion and \$2.0 billion for the three months ended March 31, 2019 compared to the same period in2018 primarily driven by a lower interest rate environment driving higher first-lien mortgage refinances.

Home equity production in Consumer Banking and for the total Corporation decreased \$860 million and \$924 million, primarily driven by lower demand.

Global Wealth & Investment Management

		Three Months Ended March 31						
(Dollars in millions)		2019		2018	% Change			
Net interest income	\$	1,684	\$	1,584	6 %			
Noninterest income:								
Investment and brokerage services		2,842		3,040	(7)			
All other income		294		232	27			
Total noninterest income		3,136		3,272	(4)			
Total revenue, net of interest expense		4,820		4,856	(1)			
Provision for credit losses		5		38	(87)			
Noninterest expense		3,426		3,580	(4)			
Income before income taxes		1,389		1,238	12			
Income tax expense		340		316	8			
Net income	\$	1,049	\$	922	14			
Effective tax rate		24.5 %		25.5 %				
Net interest yield		2.40		2.44				
Return on average allocated capital		29		26				
Efficiency ratio		71.07		73.74				
Balance Sheet								
		Three Months	Ended	March 31				
Average		2019		2018	% Change			
Total loans and leases	\$	164,403	\$	159,095	3 %			
Total earning assets		285,033		262,776	8			
Total assets		297,123		279,716	6			
Total deposits		261,831		243,077	8			
Allocated capital		14,500		14,500	_			
Period end		March 31 2019		December 31 2018	% Change			
Total loans and leases	\$	164,483	\$	164,854	<u> </u>			
Total earning assets	•	284,470		287,199	(1)			
Total assets		296,785		305,907	(3)			

GWIM consists of two primary businesses: Merrill Lynch Global Wealth Management (MLGWM) and Bank of America Private Bank (previously known as U.S. Trust). For more information about *GWIM*, see Business Segment Operations in the MD&A of the Corporation's 2018 Annual Report on Form 10-K

Total deposits

Net income for *GWIM* increased \$127 million to \$1.0 billion for the three months ended March 31, 2019 compared to the same period in2018 due to higher net interest income and lower noninterest expense, partially offset by lower noninterest income. The operating margin was 29 percent compared to 25 percent a year ago.

Net interest income increased \$100 million to \$1.7 billion due to higher deposit spreads, and increases in average deposit and loan balances, partially offset by lower loan spreads.

Noninterest income, which primarily includes investment and brokerage services income, decreased \$136 million to \$3.1 billion. The decrease was driven by lower average market valuations compared to the same period in 2018 and declines in transactional revenue and AUM pricing, partially offset by the

positive impact of AUM flows. The decline in transactional revenue was driven by lower market volatility resulting in lower client activity.

261,168

Noninterest expense decreased \$154 million to \$3.4 billion primarily driven by lower amortization of intangibles, revenue-related incentives and FDIC expense combined with continued expense discipline, partially offset by investments in business growth.

The return on average allocated capital was29 percent, up from26 percent, due to higher net income. For more information on capital allocated to the business segments, see Business Segment Operations on page 8.

MLGWM revenue of \$4.0 billion decreased one percent reflecting lower asset management fees and transactional revenue, partially offset by higher net interest income. The decrease in asset management fees was driven by lower average market valuations and AUM pricing, partially offset by the impact of higher AUM flows

Bank of America Private Bank revenue of \$855 million also decreased one percent due to lower average market valuations.

268,700

(3)

Key Indicators and Metrics

	 Three Months	Ended March 31			
(Dollars in millions, except as noted)	 2019		2018		
Revenue by Business					
Merrill Lynch Global Wealth Management	\$ 3,965	\$	3,996		
Bank of America Private Bank	855		860		
Total revenue, net of interest expense	\$ 4,820	\$	4,856		
Client Balances by Business, at period end					
Merrill Lynch Global Wealth Management	\$ 2,384,492	\$	2,284,803		
Bank of America Private Bank	452,477		440,683		
Total client balances	\$ 2,836,969	\$	2,725,486		
Client Balances by Type, at period end					
Assets under management	\$ 1,126,255	\$	1,084,717		
Brokerage and other assets	1,282,091		1,236,799		
Deposits	261,168		241,531		
Loans and leases (1)	167,455		162,439		
Total client balances	\$ 2,836,969	\$	2,725,486		
Assets Under Management Rollforward					
Assets under management, beginning of period	\$ 1,021,221	\$	1,080,747		
Net client flows	13,473		24,240		
Market valuation/other	91,561		(20,270)		
Total assets under management, end of period	\$ 1,126,255	\$	1,084,717		
Associates, at period end (2)					
Number of financial advisors	17,534		17,367		
Total wealth advisors, including financial advisors	19,523		19,276		
Total primary sales professionals, including financial advisors and wealth advisors	20,656		20,405		
Merrill Lynch Global Wealth Management Metric					
Financial advisor productivity (3) (in thousands)	\$ 1,039	\$	1,038		
Bank of America Private Bank Metric, at period end					
Primary sales professionals	 1,795		1,738		

Client balances increased \$111.5 billion, or four percent, to \$2.8 trillion at March 31, 2019 compared to March 31, 2018. The increase in client balances was due to positive net flows and higher market valuations as of March 31, 2019. Positive net client flows in AUM decreased from the same period a year ago primarily due to a smaller shift from brokerage assets to AUM.

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⁽i) Includes margin receivables which are classified in customer and other receivables on the Consolidated Balance Sheet.
(2) Includes financial advisors in the Consumer Banking segment of 2,773 and 2,538 at March 31, 2019 and 2018.
(3) Financial advisor productivity is defined as annualized MLGWM total revenue, excluding the allocation of certain ALM activities, divided by the total average number of financial advisors (excluding financial advisors in the Consumer Banking segment).

Global Banking

	Three	Three Months Ended March 31							
(Dollars in millions)	2019		2018	% Change					
Net interest income	\$	2,790 \$	2,679	4%					
Noninterest income:									
Service charges		713	763	(7)					
Investment banking fees		709	744	(5)					
All other income		943	809	17					
Total noninterest income		2,365	2,316	2					
Total revenue, net of interest expense		5,155	4,995	3					
Provision for credit losses		111	16	n/m					
Noninterest expense		2,266	2,291	(1)					
Income before income taxes		2,778	2,688	3					
Income tax expense		750	699	7					
Net income	\$	2,028 \$	1,989	2					
Effective tax rate		27.0 %	26.0 %						
Net interest yield		2.98	3.00						
Return on average allocated capital		20	20						
Efficiency ratio		43.96	45.87						

Balance Sheet

		Three Months Ended March 31							
rerage		2019		2018	% Change				
otal loans and leases	\$	370,108	\$	351,689	5%				
otal earning assets		380,308		361,822	5				
al assets		434,920		421,863	3				
tal deposits		349,037		324,405	8				
cated capital		41,000		41,000	_				
nd	_	March 31 2019		December 31 2018	% Change				
I loans and leases	\$	373,017	\$	365,717	2 %				
earning assets		381,490		377,812	1				
assets		436,066		442,330	(1)				
sits		343,897		360,248	(5)				

n/m = not meaningful

Global Banking, which includes Global Corporate Banking, Global Commercial Banking, Business Banking and Global Investment Banking, provides a wide range of lending-related products and services, integrated working capital management and treasury solutions, and underwriting and advisory services through our network of offices and client relationship teams. For more information about *Global Banking*, see Business Segment Operations in the MD&A of the Corporation's 2018 Annual Report on Form 10-K.

Net income for *Global Banking* increased \$39 million to \$2.0 billion for the three months ended March 31, 2019 compared to the same period in2018 primarily driven by higher revenue and a modest decrease in noninterest expense, partially offset by higher provision for credit losses.

Revenue increased \$160 million to \$5.2 billion for the three months ended March 31, 2019 driven by higher net interest income

and noninterest income. Net interest income increased \$111 million to \$2.8 billion primarily due to the impact of higher deposit and loan balances and increased deposit rates, partially offset by loan spread compression. Noninterest income increased \$49 million to \$2.4 billion primarily due to higher leasing-related revenue. The provision for credit losses increased \$95 million to \$111 million primarily driven by a current-period single-name utility client charge-off and energy reserve releases in the prior-year period.

Noninterest expense decreased \$25 million to \$2.3 billion, primarily due to lower FDIC expense, partially offset by continued investment in the business.

The return on average allocated capital was 20 percent for both periods. For more information on capital allocated to the business segments, see Business Segment Operations on page 8.

Global Corporate, Global Commercial and Business Banking

The table below and following discussion present a summary of the results, which exclude certain investment banking activities in Global Banking.

Global Corporate, Global Commercial and Business Banking

	Global Corp	orate	Banking	Global Comm	nercial	Banking		Busines	s Ban	king	т	otal	
					Thi	ree Months E	nded	March 31					
(Dollars in millions)	2019		2018	2019		2018		2019		2018	2019		2018
Revenue													
Business Lending	\$ 1,045	\$	1,076	\$ 1,034	\$	975	\$	94	\$	98	\$ 2,173	\$	2,149
Global Transaction Services	1,007		921	891		813		266		232	2,164		1,966
Total revenue, net of interest expense	\$ 2,052	\$	1,997	\$ 1,925	\$	1,788	\$	360	\$	330	\$ 4,337	\$	4,115
Balance Sheet													
Average													
Total loans and leases	\$ 176,288	\$	162,073	\$ 178,450	\$	172,360	\$	15,343	\$	17,259	\$ 370,081	\$	351,692
Total deposits	168,126		155,644	142,534		132,357		38,404		36,410	349,064		324,411
Period end													
Total loans and leases	\$ 175,855	\$	163,563	\$ 181,931	\$	174,580	\$	15,236	\$	17,008	\$ 373,022	\$	355,151
Total deposits	166,238		165,040	139,505		129,895		38,178		36,326	343,921		331,261

Business Lending revenue increased \$24 million for the three months ended March 31, 2019 compared to the same period in2018, primarily driven by higher leasing-related revenue.

Global Transaction Services revenue increased \$198 million to \$2.2 billion for the three months ended March 31, 2019 compared to the same period in2018 driven by higher deposit rates and increased deposit balances.

Average loans and leases increased five percent for the three months ended March 31, 2019 compared to the same period in 2018 driven by growth in the commercial and industrial portfolio. Average deposits increased eight percent due to growth in domestic interest-bearing balances.

Global Investment Banking

Client teams and product specialists underwrite and distribute debt, equity and loan products, and provide advisory services and tailored risk management solutions. The economics of certain investment banking and underwriting activities are shared primarily between Global Banking and Global Markets under an internal revenuesharing arrangement. Global Banking originates certain deal-related transactions with our corporate and commercial clients that are executed and distributed by Global Markets. To provide a complete discussion of our consolidated investment banking fees, the following table presents total Corporation

investment banking fees and the portion attributable to Global Banking.

Investment Banking Fees

		Global I	Bankir	ng		Total Co	ition	
			Thr	ee Months E	Ended	l March 31		
(Dollars in millions)	2019			2018		2019		2018
Products								
Advisory	\$	303	\$	276	\$	343	\$	296
Debt issuance		327		356		748		827
Equity issuance		79		112		234		314
Gross investment banking fees		709		744		1,325		1,437
Self-led deals		(20)		(34)		(61)		(84)
Total investment banking fees	\$	689	\$	710	\$	1,264	\$	1,353

Total Corporation investment banking fees, excluding self-led deals, of \$1.3 billion, which are primarily included within Global Banking and Global Markets, decreased seven percent for the three months ended March 31, 2019 compared to the same period in 2018 primarily due to declines in debt and equity underwriting fees, partially offset by an increase in advisory fees.

(Dollars in millions)		2019		2018	% Change
Net interest income	\$	953	\$	1,020	(7)%
Noninterest income:					
Investment and brokerage services		444		488	(9)
Investment banking fees		537		609	(12)
Trading account income		2,082		2,557	(19)
All other income		165		138	20
Total noninterest income		3,228		3,792	(15)
Total revenue, net of interest expense		4,181		4,812	(13)
Provision for credit losses		(23)		(3)	n/m
Noninterest expense		2,755		2,923	(6)
Income before income taxes		1,449		1,892	(23)
Income tax expense		413		492	(16)
Net income	\$	1,036	\$	1,400	(26)
Effective tax rate		28.5 %		26.0 %	
Return on average allocated capital		12		16	
Efficiency ratio		65.91		60.75	
Balance Sheet					
		Three Months	Ended		
Average		2019		2018	% Change
Trading-related assets:					
Trading account securities	\$	225,254	\$	210,278	7 %
Reverse repurchases		122,753		123,948	(1)
Securities borrowed		84,343		82,376	2
Derivative assets		41,953		46,567	(10)
Total trading-related assets		474,303		463,169	2
Total loans and leases		70,080		73,763	(5)
Total earning assets		472,414		486,107	(3)
Total assets		664,052		678,354	(2)
Total deposits		31,366		32,320	(3)
Allocated capital		35,000		35,000	_
Period end		March 31 2019		December 31 2018	% Change
Total trading-related assets	•	405.007	\$	447,998	8 %
U 	\$	485,637	φ	447,550	0 %
Total loans and leases	\$	70,052	Φ	73,928	(5)

Total deposits

Total assets

Global Markets offers sales and trading services and research services to institutional clients across fixed-income, credit, currency, commodity and equity businesses. Global Markets product coverage includes securities and derivative products in both the primary and secondary markets. For more information about Markets, s e e Business Segment Operations in the MD&A of the Corporation's 2018 Annual Report on Form 10-K.

Net income for Global Markets decreased \$364 million to \$1.0 billion for the three months ended March 31, 2019 compared to the same period in 2018. Net DVA losses were \$90 million compared to gains of \$64 million during the same period in 2018. Excluding net DVA, net income decreased \$247 million to \$1.1 billion. These decreases were primarily driven by a decrease in revenue, partially offset by a reduction in noninterest expense.

Sales and trading revenue decreased \$685 million, and excluding net DVA, decreased \$531 million for the three months ended March 31, 2019 compared to the same period in 2018 due to declines in both FICC and Equities revenue. The benefit in the provision for credit losses increased \$20 million driven by lower loan balances. Noninterest expense decreased \$168 million to \$2.8 billion primarily driven by lower revenue-related expenses.

Average total assets decreased \$14.3 billion to \$664.1 billion for the three months ended March 31, 2019 compared to the same period in 2018 primarily due to lower client balances in Equities. Period-end total assets increased \$29.2 billion from December 31, 2018 to \$671.1 billion due to higher market levels following the December sell-off in the equity markets driving higher client balances and increased levels of inventory to facilitate expected client demand.

671,123

31,073

641,923

37,841

Three Months Ended March 31

The return on average allocated capital was12 percent, down from 16 percent compared to the same period in 2018, reflecting lower net income.

Sales and Trading Revenue

For a description of sales and trading revenue, see Business Segment Operations in the MD&A of the Corporation's 2018 Annual Report on Form 10-K The following table and related discussion present sales and trading revenue, substantially all of which is in Global Markets, with the remainder in Global Banking. In addition, the following table and related discussion present sales and trading revenue, excluding net DVA, which is a non-GAAP financial measure. For more information on net DVA, see Supplemental Financial Data on page 5.

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Sales and Trading Revenue (1, 2)

	 Three Months Ended March 31				
(Dollars in millions)	 2019		2018		
Sales and trading revenue					
Fixed-income, currencies and commodities	\$ 2,279	\$	2,633		
Equities	1,181		1,512		
Total sales and trading revenue	\$ 3,460	\$	4,145		
Sales and trading revenue, excluding net DVA (3)					
Fixed-income, currencies and commodities	\$ 2,358	\$	2,556		
Equities	1,192		1,525		
Total sales and trading revenue, excluding net DVA	\$ 3,550	\$	4,081		

(1) Includes FTE adjustments of \$49 million and \$66 million for the three months ended March 31, 2019 and 2018. For more information on sales and trading revenue, seeNote 3 - Derivatives to the Consolidated Financial Statements

(2) Includes Global Banking sales and trading revenue of \$115 million and \$165 million for the three months ended March 31, 2019 and

2016.
[3] FICC and Equities sales and trading revenue, excluding net DVA, is a non-GAAP financial measure. FICC net DVAlosses were \$79 million and gains were \$77 million for the three months ended March 31, 2019 and 2018. Equities net DVAlosses were \$11 million for the three months ended March 31, 2019 and 2018.

The following explanations for period-over-period changes in sales and trading, FICC and Equities revenue exclude net DVA, but would be the same whether net DVA was included or excluded. FICC revenue decreased \$198 million for the three months ended March 31, 2019 compared to the same period in2018 due to a reduction in client activity. The decline in FICC revenue was also

impacted by higher funding costs, which were driven by increases in market interest rates. Equities revenue decreased \$333 million for the three months ended March 31, 2019 compared to the same period in2018, which benefited from higher market volatility resulting in higher client volumes and a strong trading performance in derivatives.

All Other

	 Three Months Ende						
(Dollars in millions)	 2019		2018	% Change			
Net interest income (loss)	\$ (5)	\$	159	(103)%			
Noninterest income (loss)	(626)		(582)	8			
Total revenue, net of interest expense	(631)		(423)	49			
Provision for credit losses	(54)		(152)	(64)			
Noninterest expense	418		500	(16)			
Loss before income taxes	(995)		(771)	29			
Income tax benefit	(947)		(774)	22			
Net income (loss)	\$ (48)	\$	3	n/m			

Balance Sheet

		Three Months	Ende	d March 31	
Average		2019		2018	% Change
Total loans and leases	\$	47,160	\$	67,811	(30)%
Total assets (1)		195,635		199,298	(2)
Total deposits		20,691		23,115	(10)
Period end	_	March 31 2019		December 31 2018	% Change
Total loans and leases	\$	45,609	\$	48,061	(5)%
Total assets (1)		178,680		195,466	(9)
Total deposits		21,472		18,541	16

(1) In segments where the total of liabilities and equity exceeds assets, which are generally deposit-taking segments, we allocate assets from (1) Other to those segments to match liabilities (i.e., deposits) and allocated shareholders' equity. Average allocated assets were \$542.4 billion and \$514.6 billion for the three months ended March 31, 2019 and 2018, and period-end allocated assets were \$566.8 billion and \$540.8 billion at March 31, 2019 and December 31, 2018.

All Other consists of ALM activities, equity investments, non-core mortgage loans and servicing activities, liquidating businesses and certain expenses not otherwise allocated to a business segment. ALM activities encompass certain residential mortgages, debt securities, and interest rate and foreign currency risk management activities. Substantially all of the results of ALM activities are allocated to our business segments. Equity investments include ourmerchant services joint venture, as well as a portfolio of equity, real estate and other alternative investments. For information on our merchant services joint venture, including the potential financial statement impact of certain pending renewal options relative to the term of the operating agreement, see Note 11 - Commitments and

Contingencies to the Consolidated Financial Statements. For additional information about All Other, see Business Segment Operations in the MD&A of the Corporation's 2018 Annual Report on Form 10-K.

The Corporation classifies consumer real estate loans as core or non-core based on loan and customer characteristics. For more information on the core and non-core portfolios, see Consumer Portfolio Credit Risk Management on page 22. Residential mortgage loans that are held for ALM purposes, including interest rate or liquidity risk management, are classified as core and are presented on the balance sheet of All Other. During the three months ended March 31, 2019, residential mortgage loans held for ALM activities decreased \$395 million to \$24.5 billion primarily

as a result of payoffs and paydowns. Non-core residential mortgage and home equity loans, which are principally runoff portfolios, are also held in *All Other*. During the three months ended March 31, 2019, total non-core loans decreased \$2.2 billion to \$21.3 billion due primarily to payoffs and paydowns as well as sales and Federal Housing Administration (FHA) loan conveyances.

Results for *All Other* were a net loss of \$48 million for the three months ended March 31, 2019 compared to net income of \$3 million in the same period in 2018, driven by a decline in revenue and a lower benefit in the provision for credit losses, partially offset by lower noninterest expense.

Revenue decreased \$208 million due to a decrease in net interest income from lower loan balances, primarily non-core loans, and a decrease in noninterest income.

The benefit in the provision for credit losses decreased\$98 million to \$54 million primarily driven by a slower pace of portfolio improvement.

Noninterest expense decreased \$82 million to \$418 million reflecting lower noncore mortgage costs, primarily due to lower volume, a decrease in compensation and benefits, and lower FDIC expense, partially offset by higher marketing expense.

The income tax benefit increased \$173 million reflecting a higher pretax loss as well as increased income tax benefit adjustments to eliminate the FTE treatment of certain tax credits recorded in *Global Banking*.

Off-Balance Sheet Arrangements and Contractual Obligations

We have contractual obligations to make future payments on debt and lease agreements. Additionally, in the normal course of business, we enter into contractual arrangements whereby we commit to future purchases of products or services from unaffiliated parties. For more information on obligations and commitments, see *Note 12 – Commitments and Contingencies* to the Consolidated Financial Statements herein as well as Off-Balance Sheet Arrangements and Contractual Obligations in the MD&A of the Corporation's 2018 Annual Report on Form 10-K, and *Note 11 – Long-term Debt* and *Note 12 – Commitments and Contingencies* to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

Representations and Warranties Obligations

For information on representations and warranties obligations in connection with the sale of mortgage loans, see *Note 12 – Commitments and Contingencies* to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K. For more information related to the sensitivity of the assumptions used to estimate our reserve for representations and warranties, see Complex Accounting Estimates – Representations and Warranties Liability in the MD&A of the Corporation's 2018 Annual Report on Form 10-K.

Managing Risk

Risk is inherent in all our business activities. The seven key types of risk faced by the Corporation are strategic, credit, market, liquidity, compliance, operational and reputational. Sound risk management enables us to serve our customers and deliver for our shareholders. If not managed well, risks can result in financial loss, regulatory sanctions and penalties, and damage to our reputation, each of which may adversely impact our ability to execute our business strategies. The Corporation takes a comprehensive approach to risk management with a defined Risk Framework and an articulated Risk Appetite Statement which are approved annually by the Enterprise Risk Committee and the Board.

Our Risk Framework is the foundation for consistent and effective management of 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 and is aligned with the Corporation's strategic, capital and financial operating plans. Our line of business strategies and risk appetite are also similarly aligned.

For more information on our Risk Framework, our risk management activities and the key types of risk faced by the Corporation, see the Managing Risk through Reputational Risk sections in the MD&A of the Corporation's 2018 Annual Report on Form 10-K.

Capital Management

The Corporation manages its capital position so that its capital is more than adequate to support its business activities and aligns with risk, risk appetite and strategic planning. Additionally, we seek to maintain safety and soundness at all times, even under adverse scenarios, take advantage of organic growth opportunities, meet obligations to creditors and counterparties, 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 periodically review capital allocated to our businesses and allocate capital annually during the strategic and capital planning processes. For additional information, see Business Segment Operations on page 8.

CCAR and Capital Planning

The Board of Governors of the Federal Reserve System (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.

In addition to our previously announced repurchases associated with the 2018 CCAR capital plan, on February 7, 2019, we announced a plan to repurchase an additional \$2.5 billion of common stock through June 30, 2019, which was approved by the Federal Reserve. During the first quarter of 2019, we repurchased \$6.3 billion of common stock pursuant to the Board's repurchase authorizations. For additional information, see Capital Management – CCAR and Capital Planning in the MD&A of the Corporation's 2018 Annual Report on Form 10-K.

Our stock repurchases are subject to various factors, including the Corporation's capital position, liquidity, financial performance and alternative uses of capital, stock trading price and general market conditions, and may be suspended at any time. The repurchases may be effected through open market purchases or privately negotiated transactions, including repurchase plans that satisfy the conditions of Rule 10b5-1 of the Securities Exchange Act of 1934, as amended. As a "well-capitalized" BHC, we may notify the Federal Reserve of our intention to make additional capital distributions not to exceed 0.25 percent of Tier 1 capital,

and which were not contemplated in our capital plan, subject to the Federal Reserve's non-objection.

In April 2019, we submitted our 2019 CCAR capital plan and related supervisory stress tests. The Federal Reserve has announced that it will release CCAR capital plan summary results, including supervisory projections of capital ratios, losses and revenues under stress scenarios, and publish the results of stress tests conducted under the supervisory adverse and supervisory severely adverse scenarios by June 30 2019

Regulatory Capital

As a financial services holding company, we are subject to regulatory capital rules, including Basel 3, issued by U.S. banking regulators. The Corporation and its primary affiliated banking entity, BANA, are Advanced approaches institutions under Basel 3 and are required to report regulatory risk-based capital ratios and riskweighted assets under both the Standardized and Advanced approaches. The approach that yields the lower ratio is used to assess capital adequacy including under the Prompt Corrective Action (PCA) framework. As of March 31, 2019, Common equity tier 1 (CET1) and Tier 1 capital ratios for the Corporation were lower under the Standardized approach whereas the Advanced approaches yielded a lower Total capital ratio. For more information on Basel 3, see Capital Management in the MD&A of the Corporation's 2018 Annual Report on Form 10-K

Minimum Capital Requirements

Minimum capital requirements and related buffers were fully phased in as of January 1, 2019. The PCA framework established

categories of capitalization, including well capitalized, based on the Basel 3 regulatory ratio requirements. U.S. banking regulators are required to take certain mandatory actions depending on the category of capitalization, with no mandatory actions required for well-capitalized banking organizations.

In order to avoid restrictions on capital distributions and discretionary bonus payments, the Corporation must meet risk-based capital ratio requirements that include a capital conservation buffer greater than 2.5 percent, plus any applicable countercyclical capital buffer and a global systemically important bank (G-SIB) surcharge. The buffers and surcharge must be comprised solely of CET1 capital.

The Corporation is also required to maintain a minimum supplementary leverage ratio (SLR) of 3.0 percent plus a leverage buffer of 2.0 percent in order to avoid certain restrictions on capital distributions and discretionary bonus payments. Our insured depository institution subsidiaries are required to maintain a minimum 6.0 percent SLR to be considered well capitalized under the PCA framework.

Capital Composition and Ratios

Table 7 presents Bank of America Corporation's capital ratios and related information in accordance with Basel 3 Standardized and Advanced approaches as measured at March 31, 2019 and December 31, 2018. As of the periods presented, the Corporation met the definition of well capitalized under current regulatory requirements.

Table 7 Bank of America Corporation Regulatory Capital under Basel 3

	_	Standardized Approach	,	Advanced Approaches	Regulatory Minimum (1)	
(Dollars in millions, except as noted)	_		М	arch 31, 2019		
Risk-based capital metrics:						
Common equity tier 1 capital	\$	169,243	\$	169,243		
Tier 1 capital		190,963		190,963		
Total capital (2)		223,745		215,634		
Risk-weighted assets (in billions)		1,455		1,423		
Common equity tier 1 capital ratio		11.6%		11.9 %	9.5%	
Tier 1 capital ratio		13.1		13.4	11.0	
Total capital ratio		15.4		15.2	13.0	
Leverage-based metrics:						
Adjusted quarterly average assets (in billions) (3)	\$	2,284	\$	2,284		
Tier 1 leverage ratio		8.4%		8.4 %	4.0	
SLR leverage exposure (in billions)			\$	2,822		
SLR				6.8%	5.0	
			Dec	cember 31, 2018		
Risk-based capital metrics:	_					
Common equity tier 1 capital	\$	167,272	\$	167,272		
Tier 1 capital		189,038		189,038		
Total capital (2)		221,304		212,878		
Risk-weighted assets (in billions)		1,437		1,409		
Common equity tier 1 capital ratio		11.6%		11.9%	8.25 %	
Tier 1 capital ratio		13.2		13.4	9.75	
Total capital ratio		15.4		15.1	11.75	
Leverage-based metrics:						
Adjusted quarterly average assets (in billions) (3)	\$	2,258	\$	2,258		
Tier 1 leverage ratio		8.4 %		8.4 %	4.0	
SLR leverage exposure (in billions)			\$	2,791		
SLR				6.8 %	5.0	

⁽¹⁾ The March 31, 2019 and December 31, 2018 amounts include a capital conservation buffer of 2.5 percent and 1.875 percent and 3.875 percent. The countercyclical capital buffer for both periods iszero. The SLR minimum includes a leverage buffer of 2.0 percent.

(2) Total capital under the Advanced approaches differs from the Standardized approach due to differences in the amount permitted in Tier 2 capital related to the qualifying allowance for credit

⁽³⁾ Reflects adjusted average total assets for the three months endedMarch 31, 2019 and December 31,

Bank of America

CET1 capital was \$169.2 billion at March 31, 2019, an increase of \$2.0 billion from December 31, 2018, driven by earnings and lower net unrealized losses on available-for-sale (AFS) debt securities included in accumulated other comprehensive income (OCI), partially offset by common stock repurchases and dividends. During the three months ended March 31, 2019, Total capital under the Advanced approaches increased \$2.8 billion primarily driven by the same factors as CET1 capital.

Risk-weighted assets under the Standardized approach, which yielded the lower CET1 capital ratio for March 31, 2019, increased \$17.5 billion during the three months ended March 31, 2019 to \$1,455 billion primarily due to an increase in other assets and client activity in *Global Markets*, partially offset by lower U.S. credit card loans

Table 8 shows the capital composition at March 31, 2019 and December 31, 2018.

Table 8 Capital Composition under Basel 3

(Dollars in millions)	March 31 2019		December 31 2018
Total common shareholders' equity	\$ 244,6	84 \$	242,999
Goodwill, net of related deferred tax liabilities	(68,5	73)	(68,572)
Deferred tax assets arising from net operating loss and tax credit carryforwards	(5,€	95)	(5,981)
Intangibles, other than mortgage servicing rights and goodwill, net of related deferred tax liabilities	(1,3	52)	(1,294)
Other	1	79	120
Common equity tier 1 capital	169,2	43	167,272
Qualifying preferred stock, net of issuance cost	22,3	26	22,326
Other	(6	06)	(560)
Tier 1 capital	190,9	63	189,038
Tier 2 capital instruments	22,4	58	21,887
Eligible credit reserves included in Tier 2 capital	2,2	68	1,972
Other		55)	(19)
Total capital under the Advanced approaches	\$ 215,6	34 \$	212,878

Table 9 shows the components of risk-weighted assets as measured under Basel 3 atMarch 31, 2019 and December 31, 2018.

Table 9 Risk-weighted Assets under Basel 3

				Standardized Approach			
 March :	31, 2019			Decembe	er 31, 2018		
\$ 1,402	\$	839	\$	1,384	\$	827	
53		52		53		52	
n/a		500		n/a		500	
n/a		32		n/a		30	
\$ 1,455	\$	1,423	\$	1,437	\$	1,409	
	\$ 1,402 53 n/a n/a	Approach App March 31, 2019 \$ 1,402 \$ 53 n/a n/a	Approach Approaches March 31, 2019 \$ 839 53 52 n/a 500 n/a 32	Approach Approaches March 31, 2019 \$ 1,402 \$ 839 \$ 53 52 n/a 500 n/a 32	Approach Approaches Approach March 31, 2019 December \$ 1,402 \$ 839 \$ 1,384 53 52 53 n/a 500 n/a n/a 32 n/a	Approach Approaches Approach Approach	Approach Approaches Approach Approaches March 31, 2019 December 31, 2018 \$ 1,402 \$ 839 \$ 1,384 \$ 827 53 52 53 52 n/a 500 n/a 500 n/a 32 n/a 30

Bank of America, N.A. Regulatory Capital

Table 10 presents regulatory capital information for BANA in accordance with Basel 3 Standardized and Advanced approaches as measured atMarch 31, 2019 and December 31, 2018. BANA met the definition of well capitalized under the PCA framework for both periods.

Table 10 Bank of America, N.A. Regulatory Capital under Basel 3

	Standardized	l Approach	Advanced Appr	Advanced Approaches			
	Ratio	Amount	Ratio	Amount	Regulatory Minimum (1)		
(Dollars in millions)			March 31, 2019				
Common equity tier 1 capital	12.6%	\$ 152,171	15.7 % \$	152,171	7.0 %		
Tier 1 capital	12.6	152,171	15.7	152,171	8.5		
Total capital	13.6	164,145	16.2	156,344	10.5		
Tier 1 leverage	9.0	152,171	9.0	152,171	5.0		
SLR			7.3	152,171	6.0		
			December 31, 2018				
Common equity tier 1 capital	12.5 %	\$ 149,824	15.6 % \$	149,824	6.5 %		
Tier 1 capital	12.5	149,824	15.6	149,824	8.0		
Total capital	13.5	161,760	16.0	153,627	10.0		
Tier 1 leverage	8.7	149,824	8.7	149,824	5.0		
SLR			7.1	149,824	6.0		

⁽¹⁾ Risk-based capital regulatory minimums at March 31, 2019 are the minimum ratios under Basel 3 including a capital conservation buffer of 2.5 percent. The regulatory minimums for the leverage ratios as of both periods and risk-based capital ratios as of December 31, 2018 are the percent required to be considered well capitalized under the PCA framework.

Total Loss-Absorbing Capacity Requirements

Effective January 1, 2019, the Corporation is subject to the Federal Reserve's final rule requiring G-SIBs to maintain minimum levels of total loss-absorbing capacity (TLAC) and long-term debt. TLAC consists of the Corporation's Tier 1 capital and eligible long-term debt issued directly by the Corporation. Eligible long-term debt for TLAC ratios is comprised of unsecured debt that has a remaining maturity of at least one year and satisfies additional requirements

as prescribed in the TLAC final rule. As with the risk-based capital ratios and SLR, the Corporation is required to maintain TLAC ratios in excess of minimum requirements plus applicable buffers in order to avoid restrictions on capital distributions and discretionary bonus payments. Table 11 presents the Corporation's TLAC and long-term debt ratios and related information as of March 31, 2019.

Table 11 Bank of America Corporation Total Loss-Absorbing Capacity and Long-Term Debt

		TLAC	Regulatory Minimum (1)					
(Dollars in millions, except ratios)	March 31, 2019							
Total eligible balance	\$	360,927		\$	165,568			
Percentage of risk-weighted assets (3)		24.8 %	22.0 %		11.4%	8.5%		
Percentage of SLR leverage exposure		12.8	9.5		5.9	4.5		

- (1) The TLAC risk-weighted assets regulatory minimum consists of 18.0 percent plus a TLAC risk-weighted assets buffer comprised of 2.5 percent plus the method 1 G-SIB surcharge of 1.5 percent. The countercyclical buffer is zero for this period. The TLAC SLR leverage exposure regulatory minimum consists of 7.5 percent plus a 2.0 percent TLAC leverage buffer. The TLAC risk-weighted assets and leverage buffers must be comprised solely of CET1 capital and Tier 1 capital, respectively.

 (2) The long-term debt risk-weighted assets regulatory minimum is comprised of 6.0 percent plus an additional 2.5 percent requirement based on the Corporation's method 2 G-SIB
- (3) The approach that yields the higher risk-weighted assets is used to calculate TLAC and long-term debt ratios, which was the Standardized approach as of March 31, 2019.

Regulatory Developments

The following supplements the disclosure in Capital Management - Regulatory Developments in the MD&A of the Corporation's 2018 Annual Report on Form 10-

Deduction of Unsecured Debt of G-SIBs

On April 2, 2019, the U.S. banking regulators issued a proposal that would require Advanced approaches firms to deduct investments in TLAC-eligible long-term debt and other pari passu or subordinated debt instruments issued by G-SIBs above a certain threshold from regulatory capital. The proposal is intended to limit the interconnectedness between G-SIBs and is complementary to existing regulatory capital requirements that generally require banks to deduct investments in the regulatory capital of financial institutions.

Broker-dealer Regulatory Capital and Securities Regulation

The Corporation's principal U.S. broker-dealer subsidiaries are Merrill Lynch, Pierce, Fenner & Smith Incorporated (MLPF&S) and Merrill Lynch Professional Clearing Corp (MLPCC). MLPCC is a fully-guaranteed subsidiary of MLPF&S and provides clearing and settlement services. Both entities are subject to the net capital requirements of SEC Rule 15c3-1. Both entities are also registered as futures commission merchants and are subject to U.S. Commodity Futures Trading Commission Regulation 1.17.

MLPF&S has elected to compute the minimum capital requirement in accordance with the Alternative Net Capital Requirement as permitted by SEC Rule 15c3-1. At March 31, 2019, MLPF&S' regulatory net capital as defined by Rule 15c3-1 was \$13.3 billion and exceeded the minimum requirement of \$2.1 billion by \$11.1 billion. MLPCC's net capital of \$4.9 billion exceeded the minimum requirement of \$588 million by \$4.3 billion.

In accordance with the Alternative Net Capital Requirements, MLPF&S is required to maintain tentative net capital in excess of \$1.0 billion and net capital in excess of \$500 million and to notify the SEC in the event its tentative net capital is less than \$5.0 billion. At March 31, 2019, MLPF&S had tentative net capital and net capital in excess of the minimum and notification requirements.

As a result of resolution planning, the current business of MLPF&S is expected to be reorganized into two affiliated broker-

dealers: MLPF&S and BofA Securities, Inc., a newly formed broker-dealer. Under the contemplated reorganization, which is expected to occur in the second quarter of 2019, BofA Securities, Inc. would become the legal entity for the institutional services that are now provided by MLPF&S. MLPF&S' retail services would remain with MLPF&S. For more information on resolution planning, see Item 1. Business -Resolution Planning of the Corporation's 2018 Annual Report on Form 10-K

MLI, a U.K. investment firm, is regulated by the Prudential Regulation Authority and the Financial Conduct Authority, and is subject to certain regulatory capital requirements. At March 31, 2019, MLI's capital resources were \$35.0 billion, which exceeded the minimum Pillar 1 requirement of \$13.6 billion.

Liquidity Risk

Funding and Liquidity Risk Management

Our primary liquidity risk management objective is to meet expected or unexpected cash flow and collateral needs while continuing to support our businesses and customers under a range of economic conditions. To achieve that objective, we analyze and monitor our liquidity risk under expected and stressed conditions, maintain liquidity and access to diverse funding sources, including our stable deposit base, and seek to align liquidity-related incentives and risks.

We define liquidity as readily available assets, limited to cash and high-quality, liquid, unencumbered securities that we can use to meet our contractual and contingent financial obligations as those obligations arise. We manage our liquidity position through line of business and ALM activities, as well as through our legal entity funding strategy, on both a forward and current (including intraday) basis under both expected and stressed conditions. We believe that a centralized approach to funding and liquidity management enhances our ability to monitor liquidity requirements, maximizes access to funding sources, minimizes borrowing costs and facilitates timely responses to liquidity events. For more information regarding global funding and liquidity risk management, as well as our liquidity sources, liquidity arrangements, contingency planning and credit ratings discussed below, see Liquidity Risk in the MD&A of the Corporation's 2018 Annual Report on Form 10-K

NB Holdings Corporation

We have intercompany arrangements with certain key subsidiaries under which we transferred certain assets of Bank of America Corporation, as the parent company, which is a separate and distinct legal entity from our banking and nonbank subsidiaries, and agreed to transfer certain additional parent company assets not needed to satisfy anticipated near-term expenditures, to NB Holdings Corporation, a wholly-owned holding company subsidiary (NB Holdings). The parent company is expected to continue to have access to the same flow of dividends, interest and other amounts of cash necessary to service its debt, pay dividends and perform other obligations as it would have had if it had not entered into these arrangements and transferred any assets. These arrangements support our preferred single point of entry resolution strategy, under which only the parent company would be resolved under the U.S. Bankruptcy Code.

Global Liquidity Sources and Other Unencumbered Assets

Table 12 presents average Global Liquidity Sources (GLS) for the three months ended March 31, 2019 and December 31, 2018.

Table 12 Average Global Liquidity Sources

	Three Months Ended						
(Dollars in billions)	March 31 2019			December 31 2018			
Parent company and NB Holdings	\$	65	\$	76			
Bank subsidiaries		429		420			
Other regulated entities		52		48			
Total Average Global Liquidity Sources	\$	546	\$	544			

We maintain liquidity available to the Corporation, including the parent company and selected subsidiaries, in the form of cash and high-quality, liquid, unencumbered securities. Typically, parent company and NB Holdings liquidity is in the form of cash deposited with BANA.

Our bank subsidiaries' liquidity is primarily driven by deposit and lending activity, as well as securities valuation and net debt activity. Liquidity at bank subsidiaries excludes the cash deposited by the parent company and NB Holdings. Our bank subsidiaries can also generate incremental liquidity by pledging a range of unencumbered loans and securities to certain Federal Home Loan Banks (FHLBs) and the Federal Reserve Discount Window. The cash we could have obtained by borrowing against this pool of specifically-identified eligible assets was \$354 billion and \$344 billion at March 31, 2019 and December 31, 2018. We have established operational procedures to enable us to borrow against these assets, including regularly monitoring our total pool of eligible loans and securities collateral. Eligibility is defined in guidelines from the FHLBs and the Federal Reserve and is subject to change at their discretion. Due to regulatory restrictions, liquidity generated by the bank subsidiaries can generally be used only to fund obligations within the bank subsidiaries, and transfers to the parent company or nonbank subsidiaries may be subject to prior regulatory approval.

Liquidity held in other regulated entities, comprised primarily of broker-dealer subsidiaries, is primarily available to meet the obligations of that entity and transfers to the parent company or to any other subsidiary may be subject to prior regulatory approval due to regulatory restrictions and minimum requirements. Our other regulated entities also hold unencumbered investment-grade securities and equities that we believe could be used to generate additional liquidity.

Table 13 presents the composition of average GLS for the three months ended March 31, 2019 and December 31, 2018.

Table 13 Average Global Liquidity Sources Composition

	Three Months Ended								
(Dollars in billions)		March 31 2019		December 31 2018					
Cash on deposit	\$	115	\$	113					
U.S. Treasury securities		83		81					
U.S. agency securities and mortgage-backed securities		338		340					
Non-U.S. government securities		10		10					
Total Average Global Liquidity Sources	\$	546	\$	544					

Our GLS are substantially the same in composition to what qualifies as High Quality Liquid Assets (HQLA) under the final U.S. Liquidity Coverage Ratio (LCR) rules. However, HQLA for purposes of calculating LCR is not reported at market value, but at a lower value that incorporates regulatory deductions and the exclusion of excess liquidity held at certain subsidiaries. The LCR is calculated as the amount of a financial institution's unencumbered HQLA relative to the estimated net cash outflows the institution could encounter over a 30-day period of significant liquidity stress, expressed as a percentage. Our average consolidated HQLA, on a net basis, was \$444 billion and \$446 billion for the three months ended March 31, 2019 and December 31, 2018. For the same periods, the average consolidated LCR was 115 percent and 118 percent. Our LCR will fluctuate due to normal business flows from customer activity.

Liquidity Stress Analysis

We utilize liquidity stress analysis to assist us in determining the appropriate amounts of liquidity to maintain at the parent company and our subsidiaries to meet contractual and contingent cash outflows under a range of scenarios. For more information on our liquidity stress analysis, see Liquidity Risk – Liquidity Stress Analysis in the MD&A of the Corporation's 2018 Annual Report on Form 10-K

Diversified Funding Sources

We fund our assets primarily with a mix of deposits, and secured and unsecured liabilities through a centralized, globally coordinated funding approach diversified across products, programs, markets, currencies and investor groups. We fund a substantial portion of our lending activities through our deposits, which were \$1.38 trillion at both March 31, 2019 and December 31, 2018.

Our trading activities in other regulated entities are primarily funded on a secured basis through securities lending and repurchase agreements, and these amounts will vary based on customer activity and market conditions.

Long-term Debt

During the three months ended March 31, 2019, we issued \$14.7 billion of long-term debt consisting of \$9.6 billion for Bank of America Corporation, substantially all of which was TLAC eligible, \$1.5 billion for Bank of America, N.A. and \$3.6 billion of other debt. Substantially all of the long-term, TLAC-eligible senior notes issued by Bank of America Corporation since late 2016 are callable, at our option, at least one year before each stated maturity date. The call features give us the flexibility to retire long-term notes before their final year outstanding, when they are no longer eligible to count toward TLAC requirements, and replace them with new TLAC-eligible debt, should we choose to do so.

During the three months ended March 31, 2019, we had total long-term debt maturities and redemptions in the aggregate of\$14.3 billion consisting of \$6.2 billion for Bank of America Corporation, \$5.6 billion for Bank of America, N.A. and \$2.5 billion of other debt. Table 14 presents the carrying value of aggregate annual contractual maturities of long-term debt at March 31, 2019.

Table

14 Long-term Debt by Maturity

(Dollars in millions)	Rei	mainder of 2019	2020	2021	2022	2023	Thereafter	Total
Bank of America Corporation								
Senior notes (1)	\$	9,325	\$ 10,301	\$ 15,892	\$ 14,786	\$ 22,720	\$ 77,930	\$ 150,954
Senior structured notes		1,206	896	494	1,946	324	10,289	15,155
Subordinated notes		973	_	356	375	_	20,797	22,501
Junior subordinated notes		_	_	_	_	_	736	736
Total Bank of America Corporation		11,504	11,197	16,742	17,107	23,044	109,752	189,346
Bank of America, N.A.								
Senior notes		_	2,750	_	_	505	26	3,281
Subordinated notes		1	_	_	_	_	1,660	1,661
Advances from Federal Home Loan Banks		8,757	3,010	2	3	1	101	11,874
Securitizations and other Bank VIEs (2)		750	3,099	4,003	_	_	5	7,857
Other		119	90	_	14	130	30	383
Total Bank of America, N.A.		9,627	8,949	4,005	17	636	1,822	25,056
Other debt								
Structured liabilities		3,973	4,928	1,501	902	923	6,897	19,124
Nonbank VIEs (2)		12	_	_	_	12	301	325
Other		_	_	_	_	_	78	78
Total other debt		3,985	4,928	1,501	902	935	7,276	19,527
Total long-term debt	\$	25,116	\$ 25,074	\$ 22,248	\$ 18,026	\$ 24,615	\$ 118,850	\$ 233,929

⁽¹⁾Total includes \$91.7 billion of outstanding notes that are both TLAC eligible and callable at least one year before their stated maturities, including\$1.0 billion that will be callable and become TLAC ineligible during the remainder o£019, \$7.3 billion, \$11.6 billion, \$14.6 billion that will do so during each o£0200 through 2023, respectively, and\$46.6 billion thereafter.

(2) Represents the total long-term debt included in the liabilities of consolidated VIEs on the Consolidated Balance

Table 15 presents our long-term debt by major currency atMarch 31, 2019 and December 31, 2018.

Table 15 Long-term Debt by Major Currency

(Dollars in millions)	N	March 31 2019		
U.S. dollar	\$	185,940	\$	180,724
Euro		32,390		34,328
British pound		5,577		5,450
Japanese yen		3,904		3,038
Canadian dollar		3,023		2,936
Australian dollar		1,753		1,722
Other		1,342		1,194
Total long-term debt	\$	233,929	\$	229,392

Total long-term debt increased \$4.5 billion during the three months ended March 31, 2019 primarily due to debt issuances and changes in fair value, partially offset by maturities and redemptions. We may, from time to time, purchase outstanding debt instruments in various transactions, depending on market conditions, liquidity and other factors. Our other regulated entities may also make markets in our debt instruments to provide liquidity for investors. For more information on long-term debt funding, see Note 11 - Long-term Debt to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

We use derivative transactions to manage the duration, interest rate and currency risks of our borrowings, considering the characteristics of the assets they are funding. For more information on our ALM activities, see Interest Rate Risk Management for the Banking Book on page 39.

We may issue unsecured debt in the form of structured notes for client purposes, certain of which qualify as TLAC-eligible debt. During the three months ended March 31, 2019, we issued \$1.8 billion of structured notes, which are debt obligations that pay investors returns linked to other debt or equity securities, indices.

currencies or commodities. We typically hedge the returns we are obligated to pay on these liabilities with derivatives and/or investments in the underlying instruments, so that from a funding perspective, the cost is similar to our other unsecured long-term debt. We could be required to settle certain structured note obligations for cash or other securities prior to maturity under certain circumstances, which we consider for liquidity planning purposes. We believe, however, that a portion of such borrowings will remain outstanding beyond the earliest put or redemption date.

Substantially all of our senior and subordinated debt obligations contain no provisions that could trigger a requirement for an early repayment, require additional collateral support, result in changes to terms, accelerate maturity or create additional financial obligations upon an adverse change in our credit ratings, financial ratios, earnings, cash flows or stock price.

Credit Ratings

Credit ratings and outlooks are opinions expressed by rating agencies on our creditworthiness and that of our obligations or securities, including long-term debt, short-term borrowings, preferred stock and other securities, including asset securitizations.

On March 6, 2019, Moody's Investors Service (Moody's) upgraded the long-term and short-term ratings of the Corporation by one notch to A2/P-1 from A3/P-2 for senior debt, as well as the long-term ratings of its rated subsidiaries, including BANA, which the agency upgraded to Aa2 from Aa3 for senior debt. Moody's concurrently affirmed the short-term ratings of the Corporation's rated subsidiaries, including BANA. Moody's cited the Corporation's strengthening profitability, continued adherence to a conservative risk profile, and stable capital ratios as rationale for the upgrade. This concluded the review for upgrade that Moody's initiated on December 5, 2018. The rating outlook for all long-term ratings is currently stable.

The ratings from Standard & Poor's Global Ratings (S&P) and Fitch Ratings for the Corporation and its subsidiaries did not

change from those disclosed in the Corporation's 2018 Annual Report on Form 10-K. Table 16 presents the Corporation's current long-term/short-term senior debt ratings and outlooks expressed by the rating agencies.

For more information on additional collateral and termination payments that could be required in connection with certain over-

the-counter derivative contracts and other trading agreements as a result of a credit rating downgrade, see *Note 3 – Derivatives* to the Consolidated Financial Statements herein and Item 1A. Risk Factors of the Corporation's 2018 Annual Report on Form 10-K.

Table

16 Senior Debt Ratings

	Mo	Moody's Investors Service		Standa	rd & Poor's Global F	atings	Fitch Ratings		
	Long-term	Short-term	Outlook	Long-term	Short-term	Outlook	Long-term	Short-term	Outlook
Bank of America Corporation	A2	P-1	Stable	A-	A-2	Stable	A+	F1	Stable
Bank of America, N.A.	Aa2	P-1	Stable	A+	A-1	Stable	AA-	F1+	Stable
Merrill Lynch, Pierce, Fenner & Smith Incorporated	NR	NR	NR	A+	A-1	Stable	AA-	F1+	Stable
Merrill Lynch International	NR	NR	NR	A+	A-1	Stable	A+	F1	Stable
NR = not rated									

Credit Risk Management

For information on our credit risk management activities, seeConsumer Portfolio Credit Risk Management below, Commercial Portfolio Credit Risk Management on page 29, Non-U.S. Portfolio on page 34, Provision for Credit Losses on page 35, Allowance for Credit Losses on page 35, and Note 5 – Outstanding Loans and Leases and Note 6 – Allowance for Credit Losses to the Consolidated Financial Statements. For information on the new accounting standard on credit losses that is effective on January 1, 2020 and the potential impact on our allowance for credit losses, see Note 1 – Summary of Significant Accounting Principles to the Consolidated Financial Statements.

Consumer Portfolio Credit Risk Management

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 and are a component of our consumer credit risk management process. These models 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 allowance for loan and lease losses and allocated capital for credit risk.

Consumer Credit Portfolio

Improvement in home prices continued during thethree months ended March 31, 2019 resulting in improved credit quality compared toDecember 31, 2018. Additionally, lower credit losses in the consumer real estate portfolio were partially offset by

seasoning in the U.S. credit card portfolio compared to the same period in 2018.

Improved credit quality and continued loan balance runoff primarily in the non-core consumer real estate portfolio, partially offset by seasoning within the U.S. credit card portfolio, drove a \$46 million decrease in the consumer allowance for loan and lease losses during the three months ended March 31, 2019to \$4.8 billion. For additional information, see Allowance for Credit Losses on page 35.

For more information on our accounting policies regarding delinquencies, nonperforming status, charge-offs and troubled debt restructurings (TDRs) for the consumer portfolio, see *Note 1 – Summary of Significant Accounting Principles* and *Note 5 – Outstanding Loans and Leases* to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

Table 17 presents our outstanding consumer loans and leases, consumer nonperforming loans and accruing consumer loans past due 90 days or more. Nonperforming loans do not include past due consumer credit card loans, other unsecured loans and in general, consumer loans not secured by real estate (bankruptcy loans are included) as these loans are typically charged off no later than the end of the month in which the loan becomes 180 days past due. Real estate-secured past due consumer loans that are insured by the FHA or individually insured under long-term standby agreements with Fannie Mae and Freddie Mac (collectively, the fully-insured loan portfolio) are reported as accruing as opposed to nonperforming since the principal repayment is insured. Fully-insured loans included in accruing past due 90 days or more are primarily from our repurchases of delinquent FHA loans pursuant to our servicing agreements with the Government National Mortgage Association (GNMA). Nonperforming loans and accruing balances past due 90 days or more also do not include loans accounted for under the fair value option even though the customer may be contractually past due.

Table

17 **Consumer Credit Quality**

		Outst	anding	ıs	Nonperforming					Accruing Past Due 90 Days or More					
(Dollars in millions)		March 31 2019		December 31 2018		March 31 2019		December 31 2018		March 31 2019		December 31 2018			
Residential mortgage (1)	\$	212,023	\$	208,557	\$	1,773	\$	1,893	\$	1,593	\$	1,884			
Home equity		46,241		48,286		1,751		1,893		_		_			
U.S. credit card		93,009		98,338		n/a		n/a		1,005		994			
Direct/Indirect consumer (2)		89,548		91,166		54		56		31		38			
Other consumer (3)		152		202		_		_		_		_			
Consumer loans excluding loans accounted for under the fair value option	• \$	440,973	\$	446,549	\$	3,578	\$	3,842	\$	2,629	\$	2,916			
Loans accounted for under the fair value option (4)		668		682											
Total consumer loans and leases	\$	441,641	\$	447,231											
Percentage of outstanding consumer loans and leases (5)		n/a		n/a	-	0.81 %		0.86 %		0.60 %		0.65 %			
Percentage of outstanding consumer loans and leases, excluding fully- insured loan portfolios (5)		n/a		n/a		0.85		0.90		0.25		0.24			

⁽¹⁾ Residential mortgage loans accruing past due 90 days or more are fully-insured loans. AMarch 31, 2019 and December 31, 2018, residential mortgage includes \$1.2 billion and \$1.4 billion of loans on which interest had been curtailed by the FHA, and therefore were no longer accruing interest, although principal was still insured, and \$391 million and \$498 million of loans on which interest was still accruing.

(2) Outstandings include auto and specialty lending loans and leases of\$49.9 billion and other consumer loans of\$52.8 billion and\$53.1 billion and \$383 million, U.S. securities-based lending loans of\$35.8 billion and\$37.0 billion, non-U.S. consumer loans of\$52.8 billion and\$52.8 billion and\$53.1 billion and\$53.8 billion

Table 18 presents net charge-offs and related ratios for consumer loans and leases.

Table

18 Consumer Net Charge-offs and Related Ratios

	Net Cha	arge-o	ffs	Net Charge-off Ratios (1)			
			Three Months Ende	d March 31			
(Dollars in millions)	 2019		2018	2019	2018		
Residential mortgage	\$ (16)	\$	(6)	(0.03)%	(0.01)%		
Home equity	11		33	0.10	0.23		
U.S. credit card	745		701	3.18	3.01		
Direct/Indirect consumer	54		59	0.24	0.25		
Other consumer	41 43			n/m	n/m		
Total	\$ \$ 835 \$ 830			0.77 0.75			

⁽¹⁾ Net charge-off ratios are calculated as annualized net charge-offs divided by average outstanding loans and leases excluding loans accounted for under the fair value

Table 19 presents outstandings, nonperforming balances, net charge-offs, allowance for loan and lease losses and provision for loan and lease losses for the core and non-core portfolios within the consumer real estate portfolio. We categorize consumer real estate loans as core and non-core based on loan and customer characteristics such as origination date, product type, loan-to-value (LTV), Fair Isaac Corporation (FICO) score and delinquency status consistent with our current consumer and mortgage servicing strategy. Generally, loans that were originated after January 1, 2010, qualified under government-sponsored enterprise underwriting guidelines, or otherwise met our underwriting

guidelines in place in 2015 are characterized as core loans. All other loans are generally characterized as non-core loans and represent runoff portfolios. Core loans as reported in Table 19 include loans held in the Consumer Banking and GWIM segments, as well as loans held for ALM activities in All Other.

As shown in Table 19, outstanding core consumer real estate loans increased \$3.5 billion during the three months ended March 31, 2019 driven by an increase of \$4.8 billion in residential mortgage, partially offset by a\$1.3 billion decrease in home equity. During the three months ended March 31, 2019 and 2018, we sold \$950 million and \$825 million of consumer real estate loans.

overdrafts.

(4) Consumer loans accounted for under the fair value option include residential mortgage loans of \$15 million and \$336 million and home equity loans of \$353 million and \$346 million at March 31, 2019 and December 31, 2018. For more information on the fair value option, see Note 16 – Fair Value Option to the Consolidated Financial Statements.

(5) Excludes consumer loans accounted for under the fair value option. AMarch 31, 2019 and December 31, 2018 million and \$12 million and \$12 million and \$12 million are second for under the fair value option were past due 90 days or more and not accruing

n/a = not applicable

Table 19 Consumer Real Estate Portfolio (1)

	 Outst	s		Nonpe	erform	ng	Net Charge-offs					
	Manala 04	-			March 31		December 31	Three Months Ended March 31				
(Dollars in millions)	 March 31 2019		ecember 31 2018	2019		2018			2019		2018	
Core portfolio												
Residential mortgage	\$ 198,524	\$	193,695	\$	976	\$	1,010	\$	(3)	\$	9	
Home equity	38,706		40,010		906		955		21		23	
Total core portfolio	237,230		233,705		1,882		1,965		18		32	
Non-core portfolio												
Residential mortgage	13,499		14,862		797		883		(13)		(15)	
Home equity	7,535		8,276		845		938		(10)		10	
Total non-core portfolio	21,034		23,138		1,642		1,821		(23)		(5)	
Consumer real estate portfolio												
Residential mortgage	212,023		208,557		1,773		1,893		(16)		(6)	
Home equity	46,241		48,286		1,751		1,893		11		33	
Total consumer real estate portfolio	\$ 258,264	\$	256,843	\$	3,524	\$	3,786	\$	(5)	\$	27	

	_		ice for Loan ase Losses			an es		
	_					Three Months	Ended I	March 31
		March 31 2019	December 2018			2019		2018
Core portfolio	_							
Residential mortgage	\$	213	\$	214	\$	(4)	\$	8
Home equity		185		228		(22)		(1)
Total core portfolio		398		442		(26)		7
Non-core portfolio								
Residential mortgage		166		208		(31)		(86)
Home equity		258		278		(13)		(49)
Total non-core portfolio		424		486		(44)		(135)
Consumer real estate portfolio								
Residential mortgage		379		422		(35)		(78)
Home equity		443		506		(35)		(50)
Total consumer real estate portfolio	\$	822	\$	928	\$	(70)	\$	(128)

⁽¹⁾ Outstandings and nonperforming loans exclude loans accounted for under the fair value option. Consumer loans accounted for under the fair value option included residential mortgage loans of \$15 million and \$336 million and \$336 million and \$346 million and

We believe that the presentation of information adjusted to exclude the impact of the fully-insured loan portfolio and loans accounted for under the fair value option is more representative of the ongoing operations and credit quality of the business. As a result, in the following tables and discussions of the residential mortgage and home equity portfolios, we exclude loans accounted for under the fair value option and provide information that excludes the impact of the fully-insured loan portfolio in certain credit quality statistics.

Residential Mortgage

The residential mortgage portfolio made up the largest percentage of our consumer loan portfolio at 48 percent of consumer loans and leases at March 31, 2019. Approximately 46 percent of the residential mortgage portfolio was in *Consumer Banking* and 37 percent was in *GWIM*. The remaining portion was in *All Other* and was comprised of originated loans, purchased loans used in our overall ALM activities, delinquent FHA loans repurchased pursuant

to our servicing agreements with GNMA as well as loans repurchased related to our representations and warranties.

Outstanding balances in the residential mortgage portfolio increased \$3.5 billion during the three months ended March 31, 2019 as retention of new originations was partially offset by loan sales of \$838 million and runoff.

At March 31, 2019 and December 31, 2018, the residential mortgage portfolio included \$19.6 billion and \$20.1 billion of outstanding fully-insured loans, of which \$13.3 billion and \$14.0 billion had FHA insurance with the remainder protected by long-term standby agreements. At March 31, 2019 and December 31, 2018, \$3.1 billion and \$3.5 billion of the FHA-insured loan population were repurchases of delinquent FHA loans pursuant to our servicing agreements with GNMA.

Table 20 presents certain residential mortgage key credit statistics on both a reported basis and excluding the fully-insured loan portfolio. The following discussion presents the residential mortgage portfolio excluding the fully-insured loan portfolio.

Table 20

Residential Mortgage - Key Credit Statistics

	Reporte	d Basis		d Loans (1)			
(Dollars in millions)	March 31 2019	December 31 2018			March 31 2019		December 31 2018
Outstandings	\$ 212,023	\$	208,557	\$	192,389	\$	188,427
Accruing past due 30 days or more	3,410		3,945		1,020		1,155
Accruing past due 90 days or more	1,593		1,884		_		_
Nonperforming loans	1,773		1,893		1,773		1,893
Percent of portfolio							
Refreshed LTV greater than 90 but less than or equal to 100	2 %		2 %		2 %		2 %
Refreshed LTV greater than 100	1		1		1		1
Refreshed FICO below 620	3		4		2		2
2006 and 2007 vintages (2)	5		6		5		6

	Three Months Ende	d March 31	
2019	2018	2019	2018
(0.03)%	(0.01)%	(0.03)%	(0.01)%

⁽¹⁾ Outstandings, accruing past due, nonperforming loans and percentages of portfolio exclude loans accounted for under the fair value

Nonperforming residential mortgage loans decreased \$120 million during the three months ended March 31, 2019 primarily driven by sales. Of the nonperforming residential mortgage loans at March 31, 2019, \$701 million, or 40 percent, were current on contractual payments. Loans accruing past due 30 days or more decreased \$135 million due to continued improvement in credit quality as well as loan sales in the non-core portfolio.

Net recoveries increased \$10 million to \$16 million for the three months ended March 31, 2019 compared to the same period in 2018 primarily due to continued improvement in credit quality.

Loans with a refreshed LTV greater than 100 percent represented one percent of the residential mortgage loan portfolio at both March 31, 2019 and December 31, 2018. Of the loans with a refreshed LTV greater than 100 percent,99 percent were performing at both March 31, 2019 and December 31, 2018. Loans with a refreshed LTV greater than 100 percent reflect loans where the outstanding carrying value of the loan is greater than the most recent valuation of the property securing the loan.

Of the \$192.4 billion in total residential mortgage loans outstanding at March 31. 2019, as shown in Table 20, 29 percent were originated as interest-only loans. The outstanding balance of interest-only residential mortgage loans that have entered the amortization period was \$8.9 billion, or 16 percent, at March 31, 2019. Residential mortgage loans that have entered the amortization period generally have experienced a higher rate of

early stage delinquencies and nonperforming status compared to the residential mortgage portfolio as a whole. At March 31, 2019, \$196 million, or two percent, of outstanding interest-only residential mortgages that had entered the amortization period were accruing past due 30 days or more compared to \$1.0 billion, or one percent, for the entire residential mortgage portfolio. In addition, atMarch 31, 2019, \$367 million, or four percent, of outstanding interest-only residential mortgage loans that had entered the amortization period were nonperforming, of which \$126 million were contractually current, compared to \$1.8 billion, or one percent, for the entire residential mortgage portfolio. Loans that have yet to enter the amortization period in our interest-only residential mortgage portfolio are primarily well-collateralized loans to our wealth management clients and have an interest-only period of three to ten years. Approximately 91 percent of these loans that have yet to enter the amortization period will not be required to make a fully-amortizing payment until 2022 or later.

Table 21 presents outstandings, nonperforming loans and net charge-offs by certain state concentrations for the residential mortgage portfolio. The Los Angeles-Long Beach-Santa Ana Metropolitan Statistical Area (MSA) within California represented 16 percent of outstandings at bothMarch 31, 2019 and December 31, 2018. In the New York area, the New York-Northern New Jersey-Long Island MSA made up 13 percent of outstandings at both March 31, 2019 and December 31, 2018

Table 21 Residential Mortgage State Concentrations

	 Outstandings (1)				Nonper	ng (1)	Net Charge-offs					
	March 31	-	December 31		March 31		December 31		Three Months I	Ended	March 31	
(Dollars in millions)	 2019	L	2018		2019		2018		2019		2018	
California	\$ 78,314	\$	76,323	\$	296	\$	314	\$	(8)	\$	(10)	
New York (2)	19,609		19,219		198		222		_		4	
Florida (2)	11,786		11,624		200		221		(3)		(5)	
Texas	7,943		7,820		88		102		(1)		1	
New Jersey (2)	7,271		7,051		93		98		(2)		2	
Other	67,466		66,390		898		936		(2)		2	
Residential mortgage loans (3)	\$ 192,389	\$	188,427	\$	1,773	\$	1,893	\$	(16)	\$	(6)	
Fully-insured loan portfolio	19,634		20,130									
Total residential mortgage loan portfolio	\$ 212,023	\$	208,557									

⁽¹⁾ Outstandings and nonperforming loans exclude loans accounted for under the fair value

option.
(2) These vintages of loans accounted for \$495 million and \$536 million, or 28 percent for both periods, of nonperforming residential mortgage loans atMarch 31, 2019 and December 31,

<sup>2010.
(3)</sup> Net charge-off ratios are calculated as annualized net charge-offs divided by average outstanding loans excluding loans accounted for under the fair value

option.
(2) In these states, foreclosure requires a court order following a legal proceeding (judicial states).
(3) Amounts exclude the fully-insured loan

Home Equity

At March 31, 2019, the home equity portfolio made up10 percent of the consumer portfolio and was comprised of home equity lines of credit (HELOCs), home equity loans and reverse mortgages.

At March 31, 2019, our HELOC portfolio had an outstanding balance of\$42.7 billion, or 92 percent of the total home equity portfolio, compared to\$44.3 billion, also 92 percent, at December 31, 2018. HELOCs generally have an initial draw period of 10 years, and after the initial draw period ends, the loans generally convert to 15- or 20-year amortizing loans.

At March 31, 2019, our home equity loan portfolio had an outstanding balance of \$1.7 billion, or four percent of the total home equity portfolio, compared to\$1.8 billion, also four percent, at December 31, 2018. Home equity loans are almost all fixed-rate loans with amortizing payment terms of 10 to 30 years, and of the \$1.7 billion at March 31, 2019, 68 percent have 25- to 30-year terms. AtMarch 31, 2019, our reverse mortgage portfolio had an outstanding balance of \$1.8 billion, or four percent of the total home equity portfolio, compared to\$2.2 billion, also four percent, at December 31, 2018. We no longer originate reverse mortgages.

At March 31, 2019, 76 percent of the home equity portfolio was in Consumer Banking, 16 percent was in All Other and the

remainder of the portfolio was primarily in GWIM. Outstanding balances in the home equity portfolio decreased \$2.0 billion during the three months ended March 31, 2019 primarily due to paydowns outpacing new originations and draws on existing lines. Of the total home equity portfolio at March 31, 2019 and December 31, 2018, \$16.6 billion and \$17.3 billion, or 36 percent for both periods, were in first-lien positions. At March 31, 2019, outstanding balances in the home equity portfolio that were in a second-lien or more junior-lien position and where we also held the firstlien loan totaled \$7.8 billion, or 17 percent of our total home equity portfolio.

Unused HELOCs totaled \$43.8 billion at March 31, 2019 compared to \$43.1 billion at December 31, 2018. The increase was primarily driven by the impact of new production partially offset by accounts reaching the end of their draw period, which automatically eliminates open line exposure, and customers choosing to close accounts. The HELOC utilization rate was 49 percent and 51 percent at March 31, 2019 and December 31, 2018.

Table 22 presents certain home equity portfolio key credit statistics.

Table 22 Home Equity – Key Credit Statistics (1)

(Dollars in millions)	 March 31 2019		December 31 2018
Outstandings	\$ 46,241	\$	48,286
Accruing past due 30 days or more (2)	315		363
Nonperforming loans (2)	1,751		1,893
Percent of portfolio			
Refreshed CLTV greater than 90 but less than or equal to 100	2%		2%
Refreshed CLTV greater than 100	3		3
Refreshed FICO below 620	5		5
2006 and 2007 vintages (3)	22		22

Three Months Ende	ed March 31
2019	2018
0.10 %	0.23 %

- (1) Outstandings, accruing past due, nonperforming loans and percentages of the portfolio exclude loans accounted for under the fair value
- option.
 (2) Accruing past due 30 days or more include\$45 million and \$48 million and nonperforming loans include\$198 million and \$218 million of loans where we serviced the underlying first lien atMarch 31, 2019 and December 31,
- (2) Accruing past due 30 days or more includes/3 million and sand another million and one incorper million and one incorper million and sets includes 198 mi

Nonperforming outstanding balances in the home equity portfoliodecreased \$142 million during the three months ended March 31, 2019 as outflows, including sales, outpaced new inflows. Of the nonperforming home equity loans at March 31, 2019, \$1.1 billion, or 62 percent, were current on contractual payments. Nonperforming loans that are contractually current primarily consist of collateraldependent TDRs, including those that have been discharged in Chapter 7 bankruptcy, junior-lien loans where the underlying first lien is 90 days or more past due, as well as loans that have not yet demonstrated a sustained period of payment performance following a TDR. We estimate that approximately \$197 million of junior-lien loans had first-lien loans that were 90 days or more past due. In addition, \$383 million, or 22 percent, of nonperforming home equity loans were 180 days or more past due and had been written down to the estimated fair value of the collateral, less costs to sell. Accruing loans that were 30 days or more past due decreased \$48 million during the three months ended March 31, 2019.

Net charge-offs decreased \$22 million to \$11 million for the three months ended March 31, 2019 compared to the same period

in 2018 driven by favorable portfolio trends due in part to improvement in home prices and the U.S. economy.

Outstanding balances with a refreshed CLTV greater than 100 percent comprised three percent of the home equity portfolio at bothMarch 31, 2019 and December 31, 2018. Outstanding balances with a refreshed CLTV greater than 100 percent reflect loans where our loan and available line of credit combined with any outstanding senior liens against the property are equal to or greater than the most recent valuation of the property securing the loan. Depending on the value of the property, there may be collateral in excess of the first lien that is available to reduce the severity of loss on the second lien. Of those outstanding balances with a refreshed CLTV greater than 100 percent, 95 percent of the customers were current on their home equity loan and 91 percent of second-lien loans with a refreshed CLTV greater than 100 percent were current on both their second-lien and underlying first-lien loans at March 31, 2019.

Of the \$46.2 billion in total home equity portfolio outstandings at March 31, 2019, as shown in Table 22, 19 percent require interest-only payments. The outstanding balance of HELOCs that have reached the end of their draw period and have entered the

amortization period was \$15.2 billion at March 31, 2019. The HELOCs that have entered the amortization period have experienced a higher percentage of early stage delinquencies and nonperforming status when compared to the HELOC portfolio as a whole. At March 31, 2019, \$239 million, or two percent, of outstanding HELOCs that had entered the amortization period were accruing past due 30 days or more. In addition, at March 31, 2019, \$1.6 billion, or 10 percent, of outstanding HELOCs that had entered the amortization period were nonperforming. Loans that have yet to enter the amortization period in our interest-only portfolio are primarily post-2008 vintages and generally have better credit quality than the previous vintages that had entered the amortization period. We communicate to contractually current customers more than a year prior to the end of their draw period to inform them of the potential change to the payment structure before entering the amortization period, and provide payment options to customers prior to the end of the draw period.

Although we do not actively track how many of our home equity customers pay only the minimum amount due on their home equity loans and lines, we can infer some of this information through a review of our HELOC portfolio that we service and that is still in its revolving period. During the three months ended March 31, 2019, 25 percent of these customers with an outstanding balance did not pay any principal on their HELOCs.

Table 23 presents outstandings, nonperforming balances and net charge-offs by certain state concentrations for the home equity portfolio. In the New York area, the New York-Northern New Jersey-Long Island MSA made up 13 percent of the outstanding home equity portfolio at both March 31, 2019 and December 31, 2018. The Los Angeles-Long Beach-Santa Ana MSA within California made up 11 percent of the outstanding home equity portfolio at both March 31, 2019 and December 31, 2018.

Table 23

Home Equity State Concentrations

	Outstandings (1)				Nonperforming (1)				Net Charge-offs					
	March 31 December 31				March 31		December 31		March 31					
(Dollars in millions)	2019		2018		2019		2018		2019			2018		
California	\$ 13,228	\$	13,515	\$	502	\$	536	\$	(5)	\$	(7)		
Florida (2)	5,271		5,418		286		315		(3)		10		
New Jersey (2)	3,781		3,871		142		150		5			9		
New York (2)	3,472		3,590		183		194		10			6		
Massachusetts	2,334		2,400		62		65		_			2		
Other	18,155		19,492		576		633		4			13		
Total home equity loan portfolio	\$ 46,241	\$	48,286	\$	1,751	\$	1,893	\$	11		\$	33		

⁽¹⁾ Outstandings and nonperforming loans exclude loans accounted for under the fair value

U.S. Credit Card

At March 31, 2019, 97 percent of the U.S. credit card portfolio was managed in Consumer Banking with the remainder in GWIM. Outstandings in the U.S. credit card portfolio decreased \$5.3 billion during the three months ended March 31, 2019 to \$93.0 billion due to a seasonal decline in purchase volumes. Net charge-offs increased \$44 million to \$745 million during the three months ended March 31, 2019 compared to the same period in 2018 due to portfolio seasoning. U.S. credit card loans 30 days or more past due and still accruing interest decreased \$57 million during the

three months ended March 31, 2019 from seasonal declines, while loans 90 days or more past due and still accruing interest increased \$11 million.

Unused lines of credit for U.S. credit card totaled\$340.8 billion and \$334.8 billion at March 31, 2019 and December 31, 2018. The increase in unused lines was driven by seasonally lower purchase volumes as well as account growth and lines of credit increases.

Table 24 presents certain state concentrations for the U.S. credit card portfolio.

Table

U.S. Credit Card State Concentrations 24

	Outstandings				Accruin 90 Day		 Net Charge-offs				
	March 31		December 31		March 31		December 31	 Three Months E	nded I	Vlarch 31	
(Dollars in millions)	 2019		2018		2019		2018	2019		2018	
California	\$ 15,272	\$	16,062	\$	168	\$	163	\$ 132	\$	116	
Florida	8,468		8,840		122		119	90		77	
Texas	7,391		7,730		88		84	59		56	
New York	5,736		6,066		78		81	61		70	
Washington	4,291		4,558		25		24	18		15	
Other	51,851		55,082		524		523	385		367	
Total U.S. credit card portfolio	\$ 93,009	\$	98,338	\$	1,005	\$	994	\$ 745	\$	701	

Direct/Indirect Consumer

At March 31, 2019, 56 percent of the direct/indirect portfolio was included in Consumer Banking (consumer auto and specialty lending – automotive, recreational vehicle, marine, aircraft and consumer personal loans) and 44 percent was included in GWIM (principally securities-based lending loans).

Outstandings in the direct/indirect portfolio decreased \$1.6 billion during the three months ended March 31, 2019 to \$89.5 billion primarily due to declines in securities-based lending driven by repayments and lower draws. Net charge-offs decreased \$5 million to \$54 million during the three months ended March 31, 2019 compared to the same period in 2018.

option.

(2) In these states, foreclosure requires a court order following a legal proceeding (judicial states).

Table 25 Direct/Indirect State Concentrations

	Outst	anding	ıs		Accruin 90 Day		Net Charge-offs				
	March 31 December 31		March 31		December 31		Three Months E	March 31			
(Dollars in millions)	 2019	·	2018		2019		2018		2019		2018
California	\$ 11,578	\$	11,734	\$	3	\$	4	\$	7	\$	6
Florida	10,019		10,240		4		4		8		10
Texas	9,668		9,876		5		6		10		9
New York	6,127		6,296		1		2		3		3
New Jersey	3,269		3,308		1		1		1		1
Other	48,887		49,712		17		21		25		30
Total direct/indirect loan portfolio	\$ 89,548	\$	91,166	\$	31	\$	38	\$	54	\$	59

Nonperforming Consumer Loans, Leases and Foreclosed Properties Activity

Table 26 presents nonperforming consumer loans, leases and foreclosed properties activity for the three months ended March 31, 2019 and 2018 During the three months ended March 31, 2019, nonperforming consumer loans decreased \$264 million to \$3.6 billion primarily driven by loan sales of \$164 million.

At March 31, 2019, \$992 million, or 28 percent, of nonperforming loans were 180 days or more past due and had been written down to their estimated property value less costs to sell. In addition, at March 31, 2019, \$1.8 billion, or 51 percent, of nonperforming consumer loans were modified and are now current after successful trial periods, or are current loans classified as nonperforming loans in accordance with applicable policies.

Foreclosed properties decreased \$8 million during the three months ended March 31, 2019 to \$236 million as liquidations

outpaced additions. Certain delinquent government-guaranteed loans (principally FHA-insured loans) are excluded from our nonperforming loans and foreclosed properties activity as we expect we will be reimbursed once the property is conveyed to the guarantor for principal and, up to certain limits, costs incurred during the foreclosure process and interest accrued during the holding period.

We classify junior-lien home equity loans as nonperforming when the first-lien loan becomes 90 days past due even if the junior-lien loan is performing. At March 31, 2019 and December 31, 2018, \$197 million and \$221 million of such junior-lien home equity loans were included in nonperforming loans and leases.

Nonperforming loans also include certain loans that have been modified in TDRs where economic concessions have been granted to borrowers experiencing financial difficulties. Nonperforming TDRs are included in Table 26.

Table 26 Nonperforming Consumer Loans, Leases and Foreclosed Properties Activity

	 Three Months	Ended I	March 31
(Dollars in millions)	2019		2018
Nonperforming loans and leases, January 1	\$ 3,842	\$	5,166
Additions	391		812
Reductions:			
Paydowns and payoffs	(188)		(245)
Sales	(164)		(269)
Returns to performing status (1)	(249)		(364)
Charge-offs Charge-offs	(28)		(147)
Transfers to foreclosed properties	(26)		(45)
Transfers to loans held-for-sale	_		(2)
Total net reductions to nonperforming loans and leases	(264)		(260)
Total nonperforming loans and leases, March 31	3,578		4,906
Foreclosed properties, March 31 (2)	236		264
Nonperforming consumer loans, leases and foreclosed properties, March 31	\$ 3,814	\$	5,170
Nonperforming consumer loans and leases as a percentage of outstanding consumer loans and leases (3)	0.81 %		1.10 %
Nonperforming consumer loans, leases and foreclosed properties as a percentage of outstanding consumer loans, leases and foreclosed properties (3)	0.86		1.16

⁽¹⁾ Consumer loans may be returned to performing status when all principal and interest is current and full repayment of the remaining contractual principal and interest is expected, or when the loan otherwise becomes well-secured and is in the process of collection.

Table 27 presents TDRs for the consumer real estate portfolio. Performing TDR balances are excluded from nonperforming loans and leases in Table 26.

collection.
(2) Foreclosed property balances do not include properties insured by certain government-guaranteed loans, principally FHA-insured, d#400 million and \$680 million at March 31, 2019 and 2018.

<sup>2016.
(3)</sup> Outstanding consumer loans and leases exclude loans accounted for under the fair value option.

Table 27 **Consumer Real Estate Troubled Debt Restructurings**

			M	larch 31, 2019		December 31, 2018					
(Dollars in millions)	Non	performing		Performing	Total		Nonperforming		Performing		Total
Residential mortgage (1, 2)	\$	1,149	\$	4,623	\$ 5,772	\$	1,209	\$	4,988	\$	6,197
Home equity (3)		1,050		1,236	2,286		1,107		1,252		2,359
Total consumer real estate troubled debt restructurings	\$	2,199	\$	5,859	\$ 8,058	\$	2,316	\$	6,240	\$	8,556

- (1) At March 31, 2019 and December 31, 2018, residential mortgage TDRs deemed collateral dependent totaled\$1.5 billion and \$1.6 billion, and included \$942 million and \$960 million of loans classified as nonperforming and (2) Residential mortgage performing TDRs included \$2.5 billion and \$2.8 billion of loans that were fully-insured atMarch 31, 2019 and December 31,
- 2018.
 (3) At March 31, 2019 and December 31, 2018, home equity TDRs deemed collateral dependent totaled\$1.2 billion and \$1.3 billion, and included \$934 million and \$961 million of loans classified as nonperforming and\$313 million and \$322 million of loans classified

In addition to modifying consumer real estate loans, we work with customers who are experiencing financial difficulty by modifying credit card and other consumer loans. Credit card and other consumer loan modifications generally involve a reduction in the customer's interest rate on the account and placing the customer on a fixed payment plan not exceeding 60 months, all of which are considered TDRs (the renegotiated TDR portfolio).

Modifications of credit card and other consumer loans are made through renegotiation programs utilizing direct customer contact, but may also utilize external renegotiation programs. The renegotiated TDR portfolio is excluded in large part from Table 26 as substantially all of the loans remain on accrual status until either charged off or paid in full. At March 31, 2019 and December 31, 2018, our renegotiated TDR portfolio was \$600 million and \$566 million, of which \$510 million and \$481 million were current or less than 30 days past due under the modified terms. The increase in the renegotiated TDR portfolio was primarily driven by new renegotiated enrollments outpacing runoff of existing portfolios.

Commercial Portfolio Credit Risk Management

Commercial credit risk is evaluated and managed with the goal that concentrations of credit exposure continue to be aligned with our risk appetite. We review, measure and manage concentrations of credit exposure by industry, product, geography, customer relationship and loan size. We also review, measure and manage commercial real estate loans by geographic location and property type. In addition, within our non-U.S. portfolio, we evaluate exposures by region and by country. Tables 32, 35 and 38 summarize our concentrations. We also utilize syndications of exposure to third parties, loan sales, hedging and other risk mitigation techniques to manage the size and risk profile of the

commercial credit portfolio. For more information on our industry concentrations, see Commercial Portfolio Credit Risk Management - Industry Concentrations on page 32 and Table 35.

For more information on our accounting policies regarding delinquencies, nonperforming status and net charge-offs for the commercial portfolio, see Note 1 -Summary of Significant Accounting Principles to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K

Commercial Credit Portfolio

During the three months ended March 31, 2019, credit quality among large corporate and middle-market borrowers in our commercial and industrial portfolio remained strong. Credit quality of commercial real estate borrowers in most sectors remained stable with conservative LTV ratios. However, some of the commercial real estate markets experienced slowing tenant demand and decelerating rental income.

Total commercial utilized credit exposure decreased \$3.1 billion during the three months ended March 31, 2019 to \$617.9 billion primarily driven by lower held-forsale loan exposure. The utilization rate for loans and leases, standby letters of credit (SBLCs) and financial guarantees, and commercial letters of credit, in the aggregate, was 59 percent at both March 31, 2019 and December 31, 2018.

Table 28 presents commercial credit exposure by type for utilized, unfunded and total binding committed credit exposure. Commercial utilized credit exposure includes SBLCs and financial guarantees and commercial letters of credit that have been issued and for which we are legally bound to advance funds under prescribed conditions during a specified time period, and excludes exposure related to trading account assets. Although funds have not yet been advanced, these exposure types are considered utilized for credit risk management purposes.

Table 28 Commercial Credit Exposure by Type

		Commerci	al Utiliz	zed (1)		Commercial I	Unfun	ded (2, 3, 4)		Total Commercial Committed				
(Dollars in millions)	March 31 2019		December 31 2018		March 31 2019		December 31 2018		March 31 2019		С	ecember 31 2018		
Loans and leases	\$	503,974	\$	499,664	\$	365,954	\$	369,282	\$	869,928	\$	868,946		
Derivative assets (5)		42,391		43,725		_		_		42,391		43,725		
Standby letters of credit and financial guarantees		33,604		34,941		430		491		34,034		35,432		
Debt securities and other investments		24,443		25,425		5,001		4,250		29,444		29,675		
Loans held-for-sale		5,307		9,090		14,871		14,812		20,178		23,902		
Operating leases		6,204		6,060		_		_		6,204		6,060		
Commercial letters of credit		1,040		1,210		323		168		1,363		1,378		
Other		967		898		_		_		967		898		
Total	\$	617,930	\$	621,013	\$	386,579	\$	389,003	\$	1,004,509	\$	1,010,016		

- (1) Commercial utilized exposure includes loans of \$5.5 billion and \$3.7 billion and issued letters of credit with a notional amount of \$61 million accounted for under the fair value option atMarch 31, 2019 and December 31,
- 2018.
 (2) Commercial unfunded exposure includes commitments accounted for under the fair value option with a notional amount o \$3.0 billion at both March 31, 2019 and December 31,
- 2018.
 (3) Excludes unused business card lines, which are not legally
- (4) Includes the notional amount of unfunded legally binding lending commitments net of amounts distributed (i.e., syndicated or participated) to other financial institutions. The distributed amounts were \$10.4 billion and \$10.7 billion at March 31, 2019 and
- (5) Derivative assets are carried at fair value, reflect the effects of legally enforceable master netting agreements and have been reduced by cash collateral of \$32.5 billion and \$32.4 billion at March 31, 2019 and December 31, 2018. Not reflected in utilized and committed exposure is additional non-cash derivative collateral held of \$32.6 billion at March 31, 2019 and December 31, 2018, which consists primarily of other marketable securities.

Outstanding commercial loans and leases increased \$4.3 billion during the three months ended March 31, 2019 primarily in the non-U.S. commercial portfolio. The allowance for loan and lease losses for the commercial portfolio increased \$22 million to \$4.8 billion at March 31, 2019. For additional information, see Allowance for Credit Losses on page 35. Table 29 presents our commercial loans and leases portfolio and related credit quality information atMarch 31, 2019 and December 31, 2018.

Table 29 Commercial Credit Quality

		Outsta	gs		Nonpe	rforn	ning	Accruing Past Due 90 Days or More					
(Dollars in millions)		March 31 2019		December 31 2018		March 31 2019		December 31 2018		March 31 2019		December 31 2018	
Commercial and industrial:													
U.S. commercial	\$	300,399	\$	299,277	\$	870	\$	794	\$	46	9	197	
Non-U.S. commercial		101,029		98,776		80		80		_		_	
Total commercial and industrial		401,428		398,053		950		874		46		197	
Commercial real estate (1)		61,215		60,845		213		156		_		4	
Commercial lease financing		21,196		22,534		52		18		13		29	
		483,839		481,432		1,215		1,048		59		230	
U.S. small business commercial (2)		14,616		14,565		57		54		91		84	
Commercial loans excluding loans accounted for under the fair value option		498,455		495,997		1,272		1,102		150		314	
Loans accounted for under the fair value option (3)		5,519		3,667		56							
Total commercial loans and leases	\$	503,974	\$	499,664	\$	1,328	\$	1,102	\$	150	9	314	

⁽¹⁾ Includes U.S. commercial real estate of \$56.8 billion and \$56.6 billion and non-U.S. commercial real estate of \$4.4 billion and \$4.2 billion at March 31, 2019 and December 31,

Table 30 presents net charge-offs and related ratios for our commercial loans and leases for thethree months ended March 31, 2019 and 2018.

Table 30 Commercial Net Charge-offs and Related Ratios

	 Net Ch	arge-offs	i	Net Charge-off Ratios (1)			
		TI	ree Months End	ed March 31			
(Dollars in millions)	 2019		2018	2019	2018		
Commercial and industrial:							
U.S. commercial	\$ 83	\$	24	0.11%	0.03 %		
Non-U.S. commercial	_		4	_	0.02		
Total commercial and industrial	83		28	0.08	0.03		
Commercial real estate	5		(3)	0.03	(0.02)		
Commercial lease financing	_		(1)	_	(0.01)		
	88		24	0.07	0.02		
U.S. small business commercial	68		57	1.90	1.67		
Total commercial	\$ 156	\$	81	0.13	0.07		

⁽¹⁾ Net charge-off ratios are calculated as annualized net charge-offs divided by average outstanding loans and leases excluding loans accounted for under the fair value

Table 31 presents commercial reservable criticized utilized exposure by loan type. Criticized exposure corresponds to the Special Mention, Substandard and Doubtful asset categories as defined by regulatory authorities. Total commercial reservable criticized utilized exposure increased \$760 million, or seven percent, during the three months ended March 31, 2019 driven by a few single-name downgrades and was not indicative of broader issues in the portfolio. AtMarch 31, 2019 and December 31, 2018, 90 percent and 91 percent of commercial reservable criticized utilized exposure was secured.

Commercial Reservable Criticized Utilized Exposure (1, 2) Table 31

(Dollars in millions) Commercial and industrial:	 Marc	h 31, 2019	December 31	, 2018
U.S. commercial	\$ 8,594	2.62%	\$ 7,986	2.43 %
Non-U.S. commercial	1,117	1.05	1,013	0.97
Total commercial and industrial	9,711	2.23	8,999	2.08
Commercial real estate	958	1.53	936	1.50
Commercial lease financing	399	1.88	366	1.62
	11,068	2.13	10,301	1.99
U.S. small business commercial	753	5.15	760	5.22
Total commercial reservable criticized utilized exposure (1)	\$ 11,821	2.22	\$ 11,061	2.08

⁽¹⁾ Total commercial reservable criticized utilized exposure includes loans and leases of \$11.1 billion and \$10.3 billion and commercial letters of credit of \$699 million and \$781 million at March 31, 2019 and December 31, 2018.

(2) Percentages are calculated as commercial reservable criticized utilized exposure divided by total commercial reservable utilized exposure for each exposure category.

^{2018.} (2) Includes

products.

(3) Commercial loans accounted for under the fair value option include U.S. commercial of \$2.8 billion and \$2.5 billion and non-U.S. commercial of \$2.7 billion and \$1.1 billion at March 31, 2019 and December 31, 2018. For more information on the fair value option, see Note 16 – Fair Value Option to the Consolidated Financial Statements.

Commercial and Industrial

Commercial and industrial loans include U.S. commercial and non-U.S. commercial

U.S. Commercial

At March 31, 2019, 71 percent of the U.S. commercial loan portfolio, excluding small business, was managed in Global Banking, 14 percent in Global Markets, 12 percent in GWIM (generally business-purpose loans for high net worth clients) and the remainder primarily in Consumer Banking. U.S. commercial loans increased \$1.1 billion during the three months ended March 31, 2019, primarily in Global Banking. Net charge-offs increased \$59 million for the three months ended March 31, 2019 compared to the same period in 2018 due to a single-name utility client. Reservable criticized utilized exposure increased \$608 million, or eight percent, driven by a few single-name downgrades.

Non-U.S. Commercial

At March 31, 2019, 81 percent of the non-U.S. commercial loan portfolio was managed in Global Banking and 19 percent in Global Markets. Non-U.S. commercial loans increased \$2.3 billion during the three months ended March 31, 2019, primarily in Global Banking. Reservable criticized utilized exposure increased \$104 million, or 10 percent, driven by a single-name downgrade. For more information on the non-U.S. commercial portfolio, see Non-U.S. Portfolio on page

Commercial Real Estate

Commercial real estate primarily includes commercial loans and leases secured by non-owner-occupied real estate and is dependent on the sale or lease of the real estate as the primary source of repayment. Outstanding loans increased \$370 million, or one percent, during the three months ended March 31, 2019 to \$61.2 billion due to new originations slightly outpacing paydowns. The portfolio remains diversified across property types and geographic regions. California represented the largest state concentration at 23 percent of the commercial real estate portfolio at both March 31, 2019 and December 31, 2018. The commercial real estate portfolio is predominantly managed in Global Banking and consists of loans made primarily to public and private developers, and commercial real estate firms.

For the three months ended March 31, 2019, we continued to see low default rates and solid credit quality in both the residential and non-residential portfolios. We use a number of proactive risk mitigation initiatives to reduce adversely rated exposure in the commercial real estate portfolio, including transfers of deteriorating exposures to management by independent special asset officers and the pursuit of loan restructurings or asset sales to achieve the best results for our customers and the Corporation.

Nonperforming commercial real estate loans and foreclosed properties increased \$60 million, or 28 percent, during the three months ended March 31, 2019 to \$272 million, due to a single-name downgrade.

Table 32 presents outstanding commercial real estate loans by geographic region, based on the geographic location of the collateral, and by property type.

Table 32 **Outstanding Commercial Real Estate Loans**

(Dollars in millions)	 March 31 2019	December 31 2018		
By Geographic Region				
California	\$ 14,235	\$	14,002	
Northeast	10,790		10,895	
Southwest	7,462		7,339	
Southeast	5,609		5,726	
Florida	4,060		3,680	
Midwest	3,933		3,772	
Illinois	2,941		2,989	
Midsouth	2,721		2,919	
Northwest	2,013		2,178	
Non-U.S.	4,389		4,240	
Other (1)	3,062		3,105	
Total outstanding commercial real estate loans	\$ 61,215	\$	60,845	
By Property Type				
Non-residential				
Office	\$ 17,034	\$	17,246	
Shopping centers / Retail	8,568		8,798	
Multi-family rental	7,645		7,762	
Hotels / Motels	6,824		7,248	
Industrial / Warehouse	5,883		5,379	
Unsecured	3,403		2,956	
Multi-use	2,449		2,848	
Other	7,810		7,029	
Total non-residential	59,616		59,266	
Residential	1,599		1,579	
Total outstanding commercial real estate loans	\$ 61,215	\$	60,845	

⁽¹⁾ Includes unsecured loans to real estate investment trusts and national home builders whose portfolios of properties span multiple geographic regions and properties in the states of Colorado, Utah, Hawaii, Wyoming and Montana.

U.S. Small Business Commercial

The U.S. small business commercial loan portfolio is comprised of small business card loans and small business loans managed in Consumer Banking. Credit cardrelated products were 52 percent and 51 percent of the U.S. small business commercial portfolio at March 31, 2019 and December 31, 2018. Of the U.S. small business commercial net charge-offs, 95 percent were credit card-related products for both the three months ended March 31, 2019 and 2018

Nonperforming Commercial Loans, Leases and Foreclosed Properties Activity

Table 33 presents the nonperforming commercial loans, leases and foreclosed properties activity during the three months ended March 31, 2019 and 2018. Nonperforming loans do not include loans accounted for under the fair value option. During the three months ended March 31, 2019, nonperforming commercial loans and leases increased \$170 million to \$1.3 billion. At March 31, 2019, 93 percent of commercial nonperforming loans, leases and foreclosed properties were secured and 61 percent were contractually current. Commercial nonperforming loans were carried at 93 percent of their unpaid principal balance before consideration of the allowance for loan and lease losses as the carrying value of these loans has been reduced to the estimated collateral value less costs to sell.

Table 33 Nonperforming Commercial Loans, Leases and Foreclosed Properties Activity (1, 2)

	Three Months	Ended	March 31
2019			2018
\$	1,102	\$	1,304
	640		436
	(108)		(169)
	(43)		(24)
	(34)		(27)
	(97)		(48)
	(7)		_
	(181)		_
	170		168
	1,272		1,472
	59		52
\$	1,331	\$	1,524
	0.26%		0.31 %
	0.27		0.32
	\$	2019 \$ 1,102 640 (108) (43) (34) (97) (7) (181) 170 1,272 59 \$ 1,331	\$ 1,102 \$ 640 (108) (43) (34) (97) (7) (181) 170 1,272 59 \$ 1,331 \$ 0.26 %

⁽¹⁾ Balances do not include nonperforming loans held-for-sale of \$457 million and \$228 million at March 31, 2019 and

Table 34 presents our commercial TDRs by product type and performing status. U.S. small business commercial TDRs are comprised of renegotiated small business card loans and small business loans. The renegotiated small business card loans are not classified as nonperforming as they are charged off no later than the end of the month in which the loan becomes 180 days past due. For more information on TDRs, see Note 5 - Outstanding Loans and Leases to the Consolidated Financial Statements.

Table 34 **Commercial Troubled Debt Restructurings**

			rch 31, 2019		December 31, 2018							
(Dollars in millions)	Ne	onperforming		Performing		Total		Nonperforming		Performing		Total
Commercial and industrial:												
U.S. commercial	\$	375	\$	1,125	\$	1,500	\$	306	\$	1,092	\$	1,398
Non-U.S. commercial		77		253		330		78		162		240
Total commercial and industrial		452		1,378		1,830		384		1,254		1,638
Commercial real estate		112		92		204		114		6		120
Commercial lease financing		32		35		67		3		68		71
		596		1,505		2,101		501		1,328		1,829
U.S. small business commercial		3		19		22		3		18		21
Total commercial troubled debt restructurings	\$	599	\$	1,524	\$	2,123	\$	504	\$	1,346	\$	1,850

Industry Concentrations

Table 35 presents commercial committed and utilized credit exposure by industry and the total net credit default protection purchased to cover the funded and unfunded portions of certain credit exposures. Our commercial credit exposure is diversified across a broad range of industries. Total commercial committed exposure decreased \$5.5 billion, or one percent, during the three months ended March 31, 2019 to \$1.0 trillion. The decrease in commercial committed exposure was concentrated in the Pharmaceuticals and Biotechnology, Asset Managers and Funds and Insurance industry sectors. Decreases were partially offset by increased exposure to the Utilities, Global Commercial Banks, and Telecommunications Services industry sectors.

Industry limits are used internally to manage industry concentrations and are based on committed exposure that is allocated on an industry-by-industry basis. A risk management framework is in place to set and approve industry limits as well as to provide ongoing monitoring. The Management Risk Committee oversees industry limit governance.

Asset Managers and Funds, our largest industry concentration with committed exposure of \$104.8 billion, decreased \$3.0 billion, or three percent, during the three months ended March 31, 2019. The change reflects a decrease in exposure to several counterparties.

Real Estate, our second largest industry concentration with committed exposure of \$87.5 billion, increased \$1.0 billion, or one percent, during the three months ended March 31, 2019. For more information on the commercial real estate and related portfolios, see Commercial Portfolio Credit Risk Management - Commercial Real Estate on page 31.

Capital Goods, our third largest industry concentration with committed exposure of \$73.7 billion, decreased \$1.4 billion, or two percent, during the three months ended March 31, 2019. The decrease in committed exposure occurred primarily as a result of decreases in large conglomerates and aerospace and defense companies, partially offset by increases in trading companies and distributors.

⁽²⁾ Includes U.S. small business commercial activity. Small business card loans are excluded as they are not classified as

⁽c) includes 0.5. Similar pushiness cultimental authors, official volumes and lease may be returned to performing status when all principal and interest is current and full repayment of the remaining contractual principal and interest is expected, or when the loan otherwise becomes well-secured and is in the process of collection. TDRs are generally classified as performing after a sustained period of demonstrated payment performance.

(4) Outstanding commercial loans exclude loans accounted for under the fair value

Table 35 Commercial Credit Exposure by Industry (1)

		mercial lized	Total Comm	ommerc nitted (2)	
(Dollars in millions)	March 31 2019	December 31 2018	March 31 2019	De	ecember 31 2018
Asset managers and funds	\$ 67,300	\$ 71,756	\$ 104,843	\$	107,888
Real estate (3)	66,568	65,328	87,529		86,514
Capital goods	38,628	39,192	73,686		75,080
Finance companies	36,432	36,662	57,199		56,659
Healthcare equipment and services	36,095	35,763	56,488		56,489
Government and public education	42,950	43,675	54,321		54,749
Materials	28,203	27,347	52,286		51,865
Retailing	25,943	25,333	45,945		47,507
Food, beverage and tobacco	23,978	23,586	43,153		42,745
Consumer services	25,514	25,702	42,788		43,298
Commercial services and supplies	21,549	22,623	38,768		39,349
Energy	14,643	13,727	32,842		32,279
Transportation	23,519	22,814	32,099		31,523
Global commercial banks	28,262	26,269	30,535		28,321
Utilities	12,208	12,035	30,146		27,623
Individuals and trusts	18,628	18,643	25,159		25,019
Technology hardware and equipment	11,514	13,014	24,398		26,228
Media	11,676	12,132	23,641		24,502
Vehicle dealers	18,100	17,603	21,168		20,446
Software and services	9,658	8,809	20,727		19,172
Pharmaceuticals and biotechnology	6,638	7,430	18,660		23,634
Consumer durables and apparel	9,870	9,904	18,625		20,199
Telecommunication services	8,695	8,686	16,158		14,166
Automobiles and components	7,632	7,131	14,143		13,893
Insurance	5,841	8,674	13,834		15,807
Food and staples retailing	5,982	4,787	9,733		9,093
Religious and social organizations	4,061	3,757	6,077		5,620
Financial markets infrastructure (clearinghouses)	1,776	2,382	3,491		4,107
Other	6,067	6,249	6,067		6,241
Total commercial credit exposure by industry	\$ 617,930	\$ 621,013	\$ 1,004,509	\$	1,010,016
Net credit default protection purchased on total commitments (4)			\$ (2,647)	\$	(2,663)

Risk Mitigation

We purchase credit protection to cover the funded portion as well as the unfunded portion of certain credit exposures. To lower the cost of obtaining our desired credit protection levels, we may add credit exposure within an industry, borrower or counterparty group by selling protection.

At March 31, 2019 and December 31, 2018, net notional credit default protection purchased in our credit derivatives portfolio to hedge our funded and unfunded exposures for which we elected

the fair value option, as well as certain other credit exposures, was\$2.6 billion and \$2.7 billion. We recorded net losses on these positions of \$65 million and \$9 million for the three months ended March 31, 2019 and 2018 The gains and losses on these instruments were offset by gains and losses on the related exposures. The Value-at-Risk (VaR) results for these exposures are included in the fair value option portfolio information in Table 41. For additional information, see Trading Risk Management on page 37.

Tables 36 and 37 present the maturity profiles and the credit exposure debt ratings of the net credit default protection portfolio at March 31, 2019 and December

Net Credit Default Protection by Maturity Table 36

_	March 31 2019	December 31 2018
Less than or equal to one year	29%	20%
Greater than one year and less than or equal to five years	54	78
Greater than five years	17	2
Total net credit default protection	100%	100%

Net credit default protection purchased on total commitments (4) \$ (2,063)

(1) Includes U.S. small business commercial exposure.

(2) Includes the notional amount of unfunded legally binding lending commitments net of amounts distributed (i.e., syndicated or participated) to other financial institutions. The distributed amounts were\$10.4 billion and \$10.7 billion at March 31, 2019 and December 31, 2018.

(3) Industries are viewed from a variety of perspectives to best isolate the perceived risks. For purposes of this table, the real estate industry is defined based on the primary business activity of the borrowers or counterparties using operating cash flows and primary source of repayment as key factors.

(4) Represents net notional credit protection purchased. For additional information, see Commercial Portfolio Credit Risk Management – Risk Mitigation.

Net Credit Default Protection by Credit Exposure Debt Table 37 Rating

	Not	Net tional (1)	Percent of Total	N	Net otional (1)	Percent of Total
(Dollars in millions)		March 3	1, 2019		December	31, 2018
Ratings (2, 3)						
A	\$	(525)	19.8 %	\$	(700)	26.3 %
BBB		(448)	16.9		(501)	18.8
ВВ		(630)	23.8		(804)	30.2
В		(543)	20.5		(422)	15.8
CCC and below		(146)	5.5		(205)	7.7
NR (4)		(355)	13.5		(31)	1.2
Total net credit default protection	\$	(2,647)	100.0%	\$	(2,663)	100.0%

⁽¹⁾ Represents net credit default protection

For more information on credit derivatives and counterparty credit risk valuation adjustments, see Note 3 - Derivatives to the Consolidated Financial Statements herein and Note 3 - Derivatives to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

Non-U.S. Portfolio

Our non-U.S. credit and trading portfolios are subject to country risk. We define country risk as the risk of loss from unfavorable economic and political conditions, currency fluctuations, social instability and changes in government policies. A risk management framework is in place to measure, monitor and manage non-U.S.

risk and exposures. In addition to the direct risk of doing business in a country, we also are exposed to indirect country risks (e.g., related to the collateral received on secured financing transactions or related to client clearing activities). These indirect exposures are managed in the normal course of business through credit, market and operational risk governance, rather than through country risk governance.

Table 38 presents our 20 largest non-U.S. country exposures atMarch 31, 2019. These exposures accounted for 89 percent of our total non-U.S. exposure at both March 31, 2019 and December 31, 2018. Net country exposure for these 20 countries increased \$4.9 billion in the three months ended March 31, 2019, primarily driven by increased corporate exposure across multiple countries.

Non-U.S. exposure is presented on an internal risk management basis and includes sovereign and non-sovereign credit exposure, securities and other investments issued by or domiciled in countries other than the U.S.

Funded loans and loan equivalents include loans, leases, and other extensions of credit and funds, including letters of credit and due from placements. Unfunded commitments are the undrawn portion of legally binding commitments related to loans and loan equivalents. Net counterparty exposure includes the fair value of derivatives, including the counterparty risk associated with credit default swaps, and secured financing transactions. Securities and other investments are carried at fair value and long securities exposures are netted against short exposures with the same underlying issuer to, but not below, zero. Net country exposure represents country exposure less hedges and credit default protection purchased, net of credit default protection sold.

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Table Top 20 Non-U.S. Countries Exposure

(Dollars in millions)	ed Loans and Equivalents	Unfunded Loan Commitments	Ne	et Counterparty Exposure	Securities/ Other Investments		Coi	untry Exposure at March 31 2019	dges and Credit	Net Country Exposure at March 31 2019	crease (Decrease) om December 31 2018
United Kingdom	\$ 33,105	\$ 16,444	\$	7,001	\$	1,681	\$	58,231	\$ (4,491)	\$ 53,740	\$ (1,114)
Germany	23,747	10,421		2,167		955		37,290	(3,338)	33,952	5,295
Japan	17,976	816		1,693		940		21,425	(1,298)	20,127	104
Canada	7,453	7,012		1,304		2,286		18,055	(821)	17,234	(2,281)
China	11,692	770		714		1,276		14,452	(265)	14,187	(454)
France	7,262	5,673		1,246		2,310		16,491	(3,800)	12,691	40
India	7,725	363		422		4,049		12,559	(166)	12,393	1,281
Brazil	7,071	589		203		4,065		11,928	(291)	11,637	1,388
Australia	6,467	3,605		329		1,435		11,836	(409)	11,427	1,497
South Korea	5,690	588		765		1,994		9,037	(217)	8,820	(350)
Netherlands	6,708	2,611		468		392		10,179	(1,549)	8,630	(2,947)
Switzerland	4,933	3,359		307		136		8,735	(1,160)	7,575	(189)
Hong Kong	5,598	268		446		1,227		7,539	(39)	7,500	264
Mexico	4,028	1,319		100		1,079		6,526	(174)	6,352	116
Belgium	4,784	1,008		110		650		6,552	(328)	6,224	646
Singapore	3,373	160		142		2,333		6,008	(57)	5,951	434
Spain	3,968	1,325		141		765		6,199	(1,583)	4,616	(34)
Italy	2,389	1,511		505		774		5,179	(1,512)	3,667	586
United Arab Emirates	3,247	257		98		118		3,720	(53)	3,667	18
Ireland	1,475	1,079		90		129		2,773	(62)	2,711	550
Total top 20 non-U.S. countries exposure	\$ 168,691	\$ 59,178	\$	18,251	\$	28,594	\$	274,714	\$ (21,613)	\$ 253,101	\$ 4,850

A number of economic conditions and geopolitical events have given rise to risk aversion in certain emerging markets. Our largest emerging market country exposure at March 31, 2019 was China, with net exposure of\$14.2 billion, concentrated in large state-owned companies, subsidiaries of multinational corporations and commercial banks.

The outlook for policy direction and therefore economic performance in the EU remains uncertain as a consequence of reduced political cohesion among EU countries. Additionally, we believe that the uncertainty in the U.K.'s ability to negotiate a favorable exit from the EU will further weigh on economic performance. For additional information, see Executive Summary

⁽²⁾ Ratings are refreshed on a quarterly

ossis.

3) Ratings of BBB- or higher are considered to meet the definition of investment grade.

(4) NR is comprised of index positions held and any names that have not been rated.

 Recent Developments – U.K. Exit from the EU on page 3. Our largest EU country exposure at March 31, 2019 was the U.K. with net exposure of\$53.7 billion, which represents a \$1.1 billion decrease from December 31, 2018, primarily driven by a reduction in corporate exposure.

We continue to closely monitor our exposures to tariff-sensitive industries and our international exposure, particularly to countries that account for a large percentage of U.S. trade, in light of ongoing trade tensions.

Provision for Credit Losses

The provision for credit losses increased \$179 million to \$1.0 billion for the three months ended March 31, 2019 compared to the same period in 2018. The provision for credit losses was \$22 million higher than net charge-offs for the three months ended March 31, 2019, resulting in an increase in the allowance for credit losses. This compared to a reduction of \$77 million in the allowance for credit losses for the three months ended March 31, 2018

Net charge-offs for the three months ended March 31, 2019 were \$991 million compared to \$911 million for the same period in 2018. We expect net charge-offs for each of the remaining quarters in 2019 to approximate this quarter's net charge-offs, assuming current economic conditions continue.

The provision for credit losses for the consumer portfolio increased \$82 million to \$830 million for the three months ended March 31, 2019 compared to the same period in 2018. The increase was primarily driven by a slower pace of portfolio improvement in the consumer real estate portfolio, and seasoning in the U.S. credit card portfolio.

The provision for credit losses for the commercial portfolio, including unfunded lending commitments, increased \$97 million to \$183 million for the three months ended March 31, 2019 compared to the same period in 2018. The increase was primarily driven by a single-name utility client charge-off and energy reserve releases in the prior-year period.

Allowance for Credit Losses

Allowance for Loan and Lease Losses

The allowance for loan and lease losses is comprised of two components. The first component covers nonperforming commercial loans and TDRs. The second component covers loans and leases on which there are incurred losses that are not yet individually identifiable, as well as incurred losses that may not be represented in the loss forecast models, which includes both quantitative and qualitative factors. We evaluate the adequacy of the allowance for loan and lease losses based on the total of these two components. The allowance for loan and lease losses excludes loans held-for-sale (LHFS) and loans accounted for under the fair value option as the fair value reflects a credit risk component. For more information on the allowance for loan and lease losses, see Allowance for Credit Losses in the MD&A of the Corporation's 2018 Annual Report on Form 10-K

During the three months ended March 31, 2019, the factors that impacted the allowance for loan and lease losses included improvement in the credit quality of the consumer real estate portfolios driven by continuing improvements in the U.S. economy and strong labor markets, proactive credit risk management initiatives and the impact of high credit quality originations. Evidencing the improvements in the U.S. economy and strong labor markets are low levels of unemployment and increases in home prices. In addition to these improvements, in the consumer portfolio, nonperforming consumer loans decreased \$264 million during the three months ended March 31, 2019 as returns to performing status, paydowns, chargeoffs and loan sales continued to outpace new nonaccrual loans.

The allowance for loan and lease losses for the consumer portfolio, as presented in Table 40, was \$4.8 billion at March 31, 2019, a decrease of \$46 million from December 31, 2018. The decrease was primarily in the consumer real estate portfolio, partially offset by an increase in the U.S. credit card portfolio. The reduction in the allowance for the consumer real estate portfolio was due to improved home prices, lower nonperforming loans and a decrease in loan balances in our non-core portfolio. The increase in the allowance for the U.S. credit card portfolio was driven by portfolio seasoning.

The allowance for loan and lease losses for the commercial portfolio, as presented in Table 40, was \$4.8 billion at March 31, 2019, an increase of \$22 million from December 31, 2018. Commercial reservable criticized utilized exposure increased to \$11.8 billion at March 31, 2019 from \$11.1 billion (to 2.22 percent from 2.08 percent of total commercial reservable utilized exposure) atDecember 31, 2018, and nonperforming commercial loansincreased to \$1.3 billion at March 31, 2019 from \$1.1 billion (to 0.26 percent from 0.22 percent of outstanding commercial loans excluding loans accounted for under the fair value option) at December 31, 2018 with the increases spread across multiple industries. See Tables29, 30 and 31 for more details on key commercial credit statistics.

The allowance for loan and lease losses as a percentage of total loans and leases outstanding was 1.02 percent at both March 31, 2019 and December 31, 2018

Reserve for Unfunded Lending Commitments

In addition to the allowance for loan and lease losses, we also estimate probable losses related to unfunded lending commitments such as letters of credit, financial guarantees, unfunded bankers' acceptances and binding loan commitments, excluding commitments accounted for under the fair value option. For more information on the reserve for unfunded lending commitments, see Allowance for Credit Losses in the MD&A of the Corporation's 2018 Annual Report on Form 10-K

The reserve for unfunded lending commitments was \$802 million at March 31, 2019 compared to \$797 million at December 31, 2018.

Table 39 presents a rollforward of the allowance for credit losses, which includes the allowance for loan and lease losses and the reserve for unfunded lending commitments, for the three months ended March 31, 2019 and 2018

Table 39 **Allowance for Credit Losses**

		Three Months	Ended	March 31
(Dollars in millions)		2019		2018
Allowance for loan and lease losses, January 1	\$	9,601	\$	10,393
Loans and leases charged off				
Residential mortgage		(24)		(56)
Home equity		(79)		(118)
U.S. credit card		(887)		(824)
Direct/Indirect consumer		(124)		(133)
Other consumer		(46)		(49)
Total consumer charge-offs		(1,160)		(1,180)
U.S. commercial (1)		(170)		(108)
Non-U.S. commercial		_		(7)
Commercial real estate		(5)		_
Commercial lease financing		(2)		(1)
Total commercial charge-offs		(177)		(116)
Total loans and leases charged off		(1,337)		(1,296)
Recoveries of loans and leases previously charged off				
Residential mortgage		40		62
Home equity		68		85
U.S. credit card		142		123
Direct/Indirect consumer		70		74
Other consumer		5		6
Total consumer recoveries		325		350
U.S. commercial (2)		19		27
Non-U.S. commercial		_		3
Commercial real estate		_		3
Commercial lease financing		2		2
Total commercial recoveries		21		35
Total recoveries of loans and leases previously charged off		346		385
Net charge-offs		(991)		(911)
Provision for loan and lease losses		1,008		829
Other (3)		(41)		(51)
Allowance for loan and lease losses, March 31		9,577		10,260
Reserve for unfunded lending commitments, January 1		797		777
Provision for unfunded lending commitments		5		5
Reserve for unfunded lending commitments, March 31		802		782
Allowance for credit losses, March 31	\$	10,379	\$	11,042
	· ·	.,.		
Loan and allowance ratios:				
Loans and leases outstanding at March 31 (4)	\$	939,428	\$	928,089
Allowance for loan and lease losses as a percentage of total loans and leases outstanding at March 31 (4)		1.02 %		1.11 %
Consumer allowance for loan and lease losses as a percentage of total consumer loans and leases outstanding at March 31 (5)		1.08		1.18
Commercial allowance for loan and lease losses as a percentage of total commercial loans and leases outstanding at March 31 (6)		0.97		1.04
Average loans and leases outstanding (4)	\$	939,008	\$	926,297
Annualized net charge-offs as a percentage of average loans and leases outstanding (4)		0.43 %		0.40 %
Allowance for loan and lease losses as a percentage of total nonperforming loans and leases at March 31 (4)		197		161
Ratio of the allowance for loan and lease losses at March 31 to annualized net charge-offs		2.38		2.78
Amounts included in allowance for loan and lease losses for loans and leases that are excluded from nonperforming loans and leases at March 31 (7)	\$	4,106	\$	3,992
Allowance for loan and lease losses as a percentage of total nonperforming loans and leases, excluding the allowance for loan and lease losses for loans and leases that are excluded from nonperforming loans and leases at March 31 (4, 7)		113%		98%

excluded from nonperforming loans and leases at March 31 (4, 7)

(1) Includes U.S. small business commercial charge-offs of \$79\$ million and \$68\$ million for the three months ended March 31, 2019 and 2018.

(2) Includes U.S. small business commercial recoveries of \$11\$ million for both the three months ended March 31, 2019 and 2018.

(3) Primarily represents write-offs of purchased credit-impaired (PCI) loans, the net impact of portfolio sales, consolidations and deconsolidations, foreign currency translation adjustments, transfers to held for sale, and certain other reclassifications.

(4) Outstanding loan and leases balances and ratios do not include loans accounted for under the fair value option of \$6.6\$ million and \$6.0\$ billion and \$6.0\$ billion at March 31, 2019 and 2018.

(5) Excludes consumer loans accounted for under the fair value option of \$6.6\$ million and \$8.94\$ million at March 31, 2019 and 2018.

<sup>2018.

(6)</sup> Excludes commercial loans accounted for under the fair value option of \$5.5 billion and \$5.1 billion at March 31, 2019 and 2018.

<sup>2018.
(7)</sup> Primarily includes amounts allocated to U.S. credit card and unsecured consumer lending portfolios in Consumer Banking and PCI loans in All Other.

Table 40 Allocation of the Allowance for Credit Losses by Product Type

	 Amount	Percent of Total	Percent of Loans and Leases Outstanding (1)	Amount	Percent of Total	Percent of Loans and Leases Outstanding (1)
(Dollars in millions)		March 31, 2019			December 31, 2018	
Allowance for loan and lease losses						
Residential mortgage	\$ 379	3.96 %	0.18 %	\$ 422	4.40 %	0.20 %
Home equity	443	4.63	0.96	506	5.27	1.05
U.S. credit card	3,666	38.27	3.94	3,597	37.47	3.66
Direct/Indirect consumer	238	2.49	0.27	248	2.58	0.27
Other consumer	30	0.31	n/m	 29	0.30	n/m
Total consumer	4,756	49.66	1.08	4,802	50.02	1.08
U.S. commercial (2)	2,997	31.29	0.95	 3,010	31.35	0.96
Non-U.S. commercial	705	7.36	0.70	677	7.05	0.69
Commercial real estate	965	10.08	1.58	958	9.98	1.57
Commercial lease financing	154	1.61	0.73	154	1.60	0.68
Total commercial	4,821	50.34	0.97	4,799	49.98	0.97
Allowance for loan and lease losses	9,577	100.00%	1.02	 9,601	100.00%	1.02
Reserve for unfunded lending commitments	802			797		
Allowance for credit losses	\$ 10,379			\$ 10,398		

⁽¹⁾ Ratios are calculated as allowance for loan and lease losses as a percentage of loans and leases outstanding excluding loans accounted for under the fair value option. Consumer loans accounted for under the fair value option include residential mortgage loans of \$315 million and \$336 million and \$340 millio

Market Risk Management

For more information on our market risk management process, see Market Risk Management in the MD&A of the Corporation's 2018 Annual Report on Form 10-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.

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 more information on our trading risk management process, see Trading Risk Management in the MD&A of the Corporation's 2018 Annual Report on Form 10-K.

Table 41 presents the total market-based portfolio VaR which is the combination of the total covered positions (and less liquid trading positions) portfolio and the fair value option portfolio. For more information on the market risk VaR trading activities, see Trading Risk Management in the MD&A of the Corporation's 2018 Annual Report on Form 10-K.

The total market-based portfolio VaR results in Table 41 include market risk to which we are exposed from all business segments, excluding credit valuation adjustment (CVA), DVA and related hedges. The majority of this portfolio is within the Global Markets segment.

Table 41 presents period-end, average, high and low daily trading VaR for the three months ended March 31, 2019, December 31, 2018 and March 31, 2018 using a 99 percent confidence level. The amounts disclosed in Table 41 and Table 42 align to the view of covered positions used in the Basel 3 capital calculations. Foreign exchange and commodity positions are always considered covered positions, regardless of trading or banking treatment for the trade, except for structural foreign currency positions that are excluded with prior regulatory

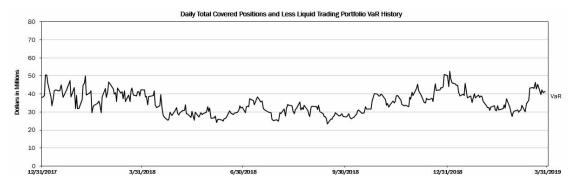
The average total covered positions and less liquid trading positions portfolio VaR increased modestly for the three months ended March 31, 2019 compared to the previous quarter primarily due to a decrease in portfolio diversification from changes in the equity risk profile in the portfolio.

Table 41 Market Risk VaR for Trading Activities

										1	hree Mo	nths E	nded										
			March	31, 201	19						Decemb	per 31, 2	2018						March	31, 20	18		
(Dollars in millions)	riod nd	Avera	ige	Hiç	gh (1)	L	.ow (1)	Per	iod End	Av	erage	Hiç	gh (1)	Lo	ow (1)	Perio	od End	Ave	erage	Hi	gh (1)	Lo	ow (1)
Foreign exchange	\$ 8	\$	6	\$	10	\$	4	\$	9	\$	7	\$	13	\$	3	\$	8	\$	8	\$	12	\$	6
Interest rate	38		28		49		17		36		28		45		18		33		23		33		18
Credit	21		21		26		18		26		25		29		23		28		27		31		23
Equity	26		19		26		14		20		25		40		15		16		19		28		14
Commodities	5		7		13		4		13		9		15		6		10		6		12		3
Portfolio diversification	(61)	(-	48)		_		_		(59)		(60)		_		_		(57)		(49)		_		_
Total covered positions portfolio	37		33		47		25		45		34		45		26		38		34		43		25
Impact from less liquid exposures	4		4		_		_		5		2		_		_		4		6		_		_
Total covered positions and less liquid trading positions portfolio	41	:	37		53		28		50		36		51		26		42		40		51		29
Fair value option loans	7		8		10		7		8		9		12		8		12		10		12		8
Fair value option hedges	4		10		17		4		5		6		7		4		9		8		10		6
Fair value option portfolio diversification	(6)		(9)		_		_		(7)		(9)		_		_		(11)		(9)		_		_
Total fair value option portfolio	5		9		16		5		6		6		8		5		10		9		10		7
Portfolio diversification	(4)		(6)		_		_		(3)		(4)		_		_		(3)		(4)		_		_
Total market-based portfolio	\$ 42	\$	40		56		30	\$	53	\$	38		54		28	\$	49	s	45		57		33

⁽¹⁾ The high and low for each portfolio may have occurred on different trading days than the high and low for the components. Therefore the impact from less liquid exposures and the amount of portfolio diversification, which is the difference between the total portfolio and the sum of the individual components, is not relevant.

The graph below presents the daily covered positions and less liquid trading positions portfolio VaR for the previous five quarters, corresponding to the data in Table 41.



Additional VaR statistics produced within our single VaR model are provided inTable 42 at the same level of detail as inTable 41. Evaluating VaR with additional statistics allows for an increased understanding of the risks in the portfolio as the historical market data used in the VaR calculation does not necessarily follow a predefined statistical distribution. Table 42 presents average trading VaR statistics at 99 percent and 95 percent confidence levels for thethree months ended March 31, 2019, December 31, 2018 and March 31, 2018.

Average Market Risk VaR for Trading Activities – 99 percent and 95 percent VaR Statistics

				Three Months I	Ended				
	 March :	31, 20)19	 December 31,	2018	_	March 31	, 2018	
(Dollars in millions)	 99 percent		95 percent	99 percent	95 percent		99 percent	95	percent
Foreign exchange	\$ 6	\$	3	\$ 7 \$	4	\$	8	\$	5
Interest rate	28		18	28	17		23		15
Credit	21		14	25	16		27		16
Equity	19		10	25	14		19		10
Commodities	7		4	9	5		6		3
Portfolio diversification	(48)		(30)	(60)	(35)		(49)		(30)
Total covered positions portfolio	33		19	34	21		34		19
Impact from less liquid exposures	4		2	2	1		6		2
Total covered positions and less liquid trading positions portfolio	37		21	36	22		40		21
Fair value option loans	8		4	9	5		10		5
Fair value option hedges	10		6	6	4		8		6
Fair value option portfolio diversification	(9)		(4)	(9)	(6)		(9)		(6)
Total fair value option portfolio	9		6	6	3		9		5
Portfolio diversification	(6)		(5)	(4)	(2)		(4)		(3)
Total market-based portfolio	\$ 40	\$	22	\$ 38 \$	23	\$	45	\$	23

Backtesting

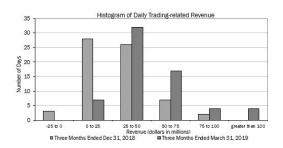
The accuracy of the VaR methodology is evaluated by backtesting, which compares the daily VaR results, utilizing a one-day holding period, against a comparable subset of trading revenue. A backtesting excess occurs when a trading loss exceeds the VaR for the corresponding day. These excesses are evaluated to understand the positions and market moves that produced the trading loss with a goal of ensuring that the VaR methodology accurately represents those losses. For more information on our backtesting process, see Trading Risk Management — Backtesting in the MD&A of the Corporation's 2018 Annual Report on Form 10-K.

During the three months ended March 31, 2019, there were no days in which there was a backtesting excess for our total covered portfolio VaR, utilizing a one-day holding period.

Total Trading-related Revenue

Total trading-related revenue, excluding brokerage fees, and CVA, DVA and funding valuation adjustment gains (losses), represents the total amount earned from trading positions, including market-based net interest income, which are taken in a diverse range of financial instruments and markets. Trading account assets and liabilities are reported at fair value. For more information on fair value, see *Note 20 — Fair Value Measurements* to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K. Trading-related revenue can be volatile and is largely driven by general market conditions and customer demand. Also, trading-related revenue is dependent on the volume and type of transactions, the level of risk assumed, and the volatility of price and rate movements at any given time within the ever-changing market environment. Significant daily revenue by business is monitored and the primary drivers of these are reviewed.

The following histogram is a graphic depiction of trading volatility and illustrates the daily level of trading-related revenue for the three months ended March 31, 2019 compared to the three months ended December 31, 2018. During the three months ended March 31, 2019, positive trading-related revenue was recorded for 100 percent of the trading days, of which 89 percent were daily trading gains of over \$25 million. This compares to the three months ended December 31, 2018 where positive trading-related revenue was recorded for 95 percent of the trading days, of which 53 percent were daily trading gains of over \$25 million.



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. For additional information, see Trading Risk Management – Trading Portfolio Stress Testing in the MD&A of the Corporation's 2018 Annual Report on Form 10-K

Interest Rate Risk Management for the Banking Book

The following discussion presents net interest income for banking book activities.

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.

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, maturity characteristics and investment securities premium amortization. Our overall goal is to manage interest rate risk so that movements in interest rates do not significantly adversely affect earnings and capital.

Table 43 presents the spot and 12-month forward rates used in our baseline forecasts at March 31, 2019 and December 31, 2018.

Table 43 Forward Rates

		March 31, 2019	
	Federal Funds	Three-month LIBOR	10-Year Swap
Spot rates	2.50 %	2.60 %	2.41 %
12-month forward rates	2.25	2.31	2.43
		December 31, 2018	
Spot rates	2.50 %	2.81 %	2.71 %
12-month forward rates	2.50	2.64	2.75

Table 44 shows the pretax impact to forecasted net interest income over the next 12 months from March 31, 2019 and December 31, 2018, resulting from instantaneous parallel and non-parallel shocks to the market-based forward curve. Periodically we evaluate the scenarios presented so that they are meaningful in the context of the current rate environment.

In the three months ended March 31, 2019, the asset sensitivity of our balance sheet to rising rates increased primarily due to decreases in interest rates. We continue to be asset sensitive to a parallel move in interest rates with the majority of that impact coming from the short end of the yield curve. Additionally, higher interest rates impact the fair value of debt securities and, accordingly, for debt securities classified as AFS, may adversely affect accumulated OCI and thus capital levels under the Basel 3 capital rules. Under instantaneous upward parallel shifts, the near-term adverse impact to Basel 3 capital is reduced over time by offsetting positive impacts to net interest income. For more information on Basel 3, see Capital Management – Regulatory Capital on page 17.

Table 44 Estimated Banking Book Net Interest Income Sensitivity to Curve Changes

(Dollars in millions)	Short Rate (bps)	Long Rate (bps)	Mar	ch 31 2019	Dece	mber 31 2018
Parallel Shifts						
+100 bps instantaneous shift	+100	+100	\$	3,673	\$	2,833
-100 bps instantaneous shift	-100	-100		(5,285)		(4,280)
Flatteners						
Short-end instantaneous change	+100	_		2,652		2,158
Long-end instantaneous change	_	-100		(2,243)		(1,618)
Steepeners						
Short-end instantaneous change	-100	_		(3,019)		(2,648)
Long-end instantaneous change	_	+100		1,026		675

The sensitivity analysis in Table 44 assumes that we take no action in response to these rate shocks and does not assume any change in other macroeconomic variables normally correlated with changes in interest rates. As part of our ALM activities, we use securities, certain residential mortgages, and interest rate and foreign exchange derivatives in managing interest rate sensitivity.

The behavior of our deposit portfolio in the baseline forecast and in alternate interest rate scenarios is a key assumption in our projected estimates of net interest income. The sensitivity analysis in Table 44 assumes no change in deposit portfolio size or mix from the baseline forecast in alternate rate environments. In higher rate scenarios, any customer activity resulting in the replacement of low-cost or noninterest-bearing deposits with higher yielding deposits or market-based funding would reduce our benefit in those scenarios.

Interest Rate and Foreign Exchange Derivative Contracts

Interest rate and foreign exchange derivative contracts are utilized in our ALM activities and serve as an efficient tool to manage our interest rate and foreign exchange risk. We use derivatives to hedge the variability in cash flows or changes in fair value on our balance sheet due to interest rate and foreign exchange components. For more information on our hedging activities, see *Note 3 – Derivatives* to the Consolidated Financial Statements. For more information on interest rate contracts and risk management, see Interest Rate Risk Management for the Banking Book in the MD&A of the Corporation's 2018 Annual Report on Form 10-K.

We use interest rate derivative instruments to hedge the variability in the cash flows of our assets and liabilities and other forecasted transactions (collectively referred to as cash flow hedges). The net losses on both open and terminated cash flow hedge derivative instruments recorded in accumulated OCI were\$1.0 billion and \$1.3 billion, on a pretax basis, atMarch 31, 2019 and December 31, 2018. These net losses are expected to be reclassified into earnings in the same period as the hedged cash flows affect earnings and will decrease income or increase expense on the respective hedged cash flows. Assuming no change in open cash flow derivative hedge positions and no changes in prices or interest rates beyond what is implied in forward yield curves at March 31, 2019, the pretax net losses are expected to be reclassified into earnings as follows: 25 percent within the next year, 53 percent in years two through five and 12 percent in years six through ten, with the remaining 10 percent thereafter. For more information on derivatives designated as cash flow hedges, see *Note 3 — Derivatives* to the Consolidated Financial Statements.

We hedge our net investment in non-U.S. operations determined to have functional currencies other than the U.S. dollar using forward foreign exchange contracts that typically settle in less than 180 days, cross-currency basis swaps and foreign exchange options. We recorded net after-tax losses on derivatives in accumulated OCI associated with net investment hedges which were offset by gains on our net investments in consolidated non-U.S. entities at March 31, 2019.

Table 45 presents derivatives utilized in our ALM activities and shows the notional amount, fair value, weighted-average receive-fixed and pay-fixed rates, expected maturity and average estimated durations of our open ALM derivatives at March 31, 2019 and December 31, 2018. These amounts do not include derivative hedges on our MSRs. During the three months ended March 31, 2019, the fair value of receive-fixed interest rate swaps increased while pay-fixed interest rates swaps decreased, driven by lower swap rates.

Table 45 Asset and Liability Management Interest Rate and Foreign Exchange Contracts

					N	larch	31, 2019				
					Ex	pecte	ed Maturity				
(Dollars in millions, average estimated duration in years)	 Fair Value	Total	Re	emainder of 2019	2020		2021	2022	2023	Thereafter	Average Estimated Duration
Receive-fixed interest rate swaps (1)	\$ 5,878										5.74
Notional amount		\$ 214,062	\$	21,298	\$ 16,347	\$	14,640	\$ 20,366	\$ 35,706	\$ 105,705	
Weighted-average fixed-rate		2.70 %		1.88 %	2.68 %		3.17 %	2.56 %	2.37 %	2.94%	
Pay-fixed interest rate swaps (1)	(883)										6.21
Notional amount		\$ 60,157	\$	1,217	\$ 4,344	\$	1,616	\$ _	\$ 13,343	\$ 39,637	
Weighted-average fixed-rate		2.51 %		2.07 %	2.16 %		2.22%	-%	2.57 %	2.56 %	
Same-currency basis swaps (2)	26										
Notional amount		\$ 126,620	\$	7,141	\$ 15,057	\$	17,992	\$ 4,296	\$ 2,017	\$ 80,117	
Foreign exchange basis swaps (1, 3, 4)	(1,081)										
Notional amount		109,167		13,986	21,869		19,115	11,382	6,597	36,218	
Option products	4										
Notional amount		666		651	_		_	_	15	_	
Foreign exchange contracts (1, 4, 5)	1,029										
Notional amount (6)		(75,189)		(94,291)	(561)		3,985	2,670	2,370	10,638	
Futures and forward rate contracts	3										
Notional amount (6)		_		_	_		_	_	_	_	

						De	cemb	er 31, 2018					
						Ex	pect	ed Maturity					
(Dollars in millions, average estimated duration in years)	_	Fair Value	Total	2019	2020			2021	2022	2023		Thereafter	Average Estimated Duration
Receive-fixed interest rate swaps (1)	\$	2,128											5.17
Notional amount			\$ 198,914	\$ 27,176	\$	16,347	\$	14,640	\$ 19,866	\$	36,215	\$ 84,670	
Weighted-average fixed-rate			2.66 %	1.87 %		2.68 %		3.17 %	2.56 %		2.37 %	2.97 %	
Pay-fixed interest rate swaps (1)		295											6.30
Notional amount			\$ 49,275	\$ 1,210	\$	4,344	\$	1,616	\$ -	\$	10,801	\$ 31,304	
Weighted-average fixed-rate			2.50 %	2.07 %		2.16 %		2.22 %	-%		2.59 %	2.55 %	
Same-currency basis swaps (2)		21											
Notional amount			\$ 101,203	\$ 7,628	\$	15,097	\$	15,493	\$ 2,586	\$	2,017	\$ 58,382	
Foreign exchange basis swaps (1, 3, 4)		(1,716)											
Notional amount			106,742	13,946		21,448		19,241	10,239		6,260	35,608	
Option products		2											
Notional amount			587	572		_		-	-		15	_	
Foreign exchange contracts (1, 4, 5)		82											
Notional amount (6)			(8,447)	(27,823)		13		4,196	2,741		2,448	9,978	
Net AI M contracts	\$	812											

⁽¹⁾ Does not include basis adjustments on either fixed-rate debt issued by the Corporation or AFS debt securities, which are hedged using derivatives designated as fair value hedging instruments, that substantially offset the fair values of these

\$

4,976

Mortgage Banking Risk Management

We originate, fund and service mortgage loans, which subject us to credit, liquidity and interest rate risks, among others. We determine whether loans will be held for investment or held for sale at the time of commitment and manage credit and liquidity risks by selling or securitizing a portion of the loans we originate.

Interest rate risk and market risk can be substantial in the mortgage business. Changes in interest rates and other market factors impact the volume of mortgage originations. Changes in interest rates also impact the value of interest rate lock commitments (IRLCs) and the related residential first mortgage LHFS between the date of the IRLC and the date the loans are sold to the secondary market. An increase in mortgage interest

rates typically leads to a decrease in the value of these instruments. Conversely, when there is an increase in interest rates, the value of the MSRs will increase driven by lower prepayment expectations. Because the interest rate risks of these two hedged items offset, we combine them into one overall hedged item with one combined economic hedge portfolio consisting of derivative contracts and

During the three months ended March 31, 2019 and 2018 we recorded gains of \$61 million and \$69 million related to the change in fair value of the MSRs, IRLCs and LHFS, net of gains and losses on the hedge portfolio. For more information on MSRs, see Note 15 - Fair Value Measurements to the Consolidated Financial Statements.

Net ALM contracts

derivatives. (2) At March 31, 2019 and December 31, 2018, the notional amount of same-currency basis swaps included \$126.6 billion and \$101.2 billion in both foreign currency and U.S. dollar-denominated basis swaps in which both sides of the swap are in the same

⁽³⁾ Foreign exchange basis swaps consisted of cross-currency variable interest rate swaps used separately or in conjunction with receive-fixed interest rate

swaps.

(4) Does not include foreign currency translation adjustments on certain non-U.S. debt issued by the Corporation that substantially offset the fair values of these

⁽⁴⁾ DOBS for include roteign currency denistation adjustments and adjustments and adjustments are contracted to provide a contract of \$1.20 billion in contracts and adjustments are contracted and adjustments.

(5) The notional amount of foreign currency denominated pay-fixed swaps \$(9.5.2) billion in the foreign currency forward rate contracts, \$(1.9) billion in foreign currency-denominated pay-fixed swaps and \$812 million in ret foreign currency-denominated and cross-currency receive-fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency receive-fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency receive-fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency receive-fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency receive-fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency receive-fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency receive-fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency receive-fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency receive-fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency receive-fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency receive-fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency receive-fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency receive-fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency-fixed swaps, \$(3.2.7) billion in net foreign currency-denominated and cross-currency-denominated and

Complex Accounting Estimates

Our significant accounting principles are essential in understanding the MD&A. Many of our significant accounting principles require complex judgments to estimate the values of assets and liabilities. We have procedures and processes in place to facilitate making these judgments. For additional information, see Complex Accounting Estimates in the MD&A of the Corporation's 2018 Annual Report on Form 10-K and Note 1 – Summary of Significant Accounting Principles to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K

Non-GAAP Reconciliations

Table 46 provides reconciliations of certain non-GAAP financial measures to GAAP financial measures.

Table 46 Period-end and Average Supplemental Financial Data and Reconciliations to GAAP Financial Measures (1)

		Perio		Average								
		March 31 2019				Three Months Ended March 31						
(Dollars in millions)				ecember 31 2018		2019		2018				
Shareholders' equity	\$	267,010	\$	265,325	\$	266,217	\$	265,480				
Goodwill		(68,951)		(68,951)		(68,951)		(68,951)				
Intangible assets (excluding MSRs)		(1,747)		(1,774)		(1,763)		(2,261)				
Related deferred tax liabilities		773		858		841		939				
Tangible shareholders' equity	\$	197,085	\$	195,458	\$	196,344	\$	195,207				
Preferred stock		(22,326)		(22,326)		(22,326)		(22,767)				
Tangible common shareholders' equity	\$	174,759	\$	173,132	\$	174,018	\$	172,440				
Total assets	\$	2,377,164	\$	2,354,507								
Goodwill		(68,951)		(68,951)								
Intangible assets (excluding MSRs)		(1,747)		(1,774)								
Related deferred tax liabilities		773		858								
Tangible assets	\$	2,307,239	\$	2,284,640								

⁽¹⁾ Presents reconciliations of non-GAAP financial measures to GAAP financial measures. For more information on non-GAAP financial measures and ratios we use in assessing the results of the Corporation, se@upplemental Financial Data on page 5.

Item 3. Quantitative and Qualitative Disclosures about Market Risk

See Market Risk Management on page 37 in the MD&A and the sections referenced therein for Quantitative and Qualitative Disclosures about Market Risk.

Item 4. Controls and Procedures

Disclosure Controls and Procedures

As of the end of the period covered by this report, the Corporation's management, including the Chief Executive Officer and Chief Financial Officer, conducted an evaluation of the effectiveness and design of the Corporation's disclosure controls and procedures (as that term is defined in Rule 13a-15(e) of the Exchange Act). Based upon that evaluation, the Corporation's Chief Executive Officer and Chief Financial Officer concluded that the Corporation's disclosure controls and procedures were effective, as of the end of the period covered by this report.

<u>Changes in Internal Control Over Financial Reporting</u>

There have been no changes in the Corporation's internal control over financial reporting (as defined in Rule 13a-15(f) of the Exchange Act) during the months ended March 31, 2019, that have materially affected, or are reasonably likely to materially affect, the Corporation's internal control over financial reporting.

Bank of America 42

Consolidated Statement of Income

	Three Month	s Ended	i March 31
(In millions, except per share information)	2019		2018
Net interest income			
Interest income	\$ 18,170	\$	15,599
Interest expense	5,795		3,830
Net interest income	12,375		11,769
Noninterest income			
Fees and commissions	7,838		8,340
Trading account income	2,338		2,553
Other income	453		408
Total noninterest income	10,629		11,301
Total revenue, net of interest expense	23,004		23,070
Provision for credit losses	1,013		834
Noninterest expense			
Compensation and benefits	8,249		8,480
Occupancy and equipment	1,605		1,607
Information processing and communications	1,164		1,165
Product delivery and transaction related	662		756
Marketing	442		345
Professional fees	360		381
Other general operating	742		1,108
Total noninterest expense	13,224		13,842
Income before income taxes	8,767		8,394
Income tax expense	1,456		1,476
Net income	\$ 7,311	\$	6,918
Preferred stock dividends	442		428
Net income applicable to common shareholders	\$ 6,869	\$	6,490
Per common share information			
Earnings	\$ 0.71	\$	0.63
Diluted earnings	0.70		0.62
Average common shares issued and outstanding	9,725.9		10,322.4
Average diluted common shares issued and outstanding	9,787.3		10,472.7

Consolidated Statement of Comprehensive Income

	Three Months	s Ended March 31
(Dollars in millions)	2019	2018
Net income	\$ 7,311	\$ 6,918
Other comprehensive income (loss), net-of-tax:		
Net change in debt and equity securities	2,309	(3,963)
Net change in debit valuation adjustments	(363)	273
Net change in derivatives	229	(275)
Employee benefit plan adjustments	28	30
Net change in foreign currency translation adjustments	(34)	(48)
Other comprehensive income (loss)	2,169	(3,983)
Comprehensive income	\$ 9,480	\$ 2,935

Consolidated Balance Sheet

ers in millions)		March 31 2019	D	2019 2018
Assets	-			
Cash and due from banks	\$	28,083	\$	29,063
Interest-bearing deposits with the Federal Reserve, non-U.S. central banks and other banks	•	143,540	φ	148,341
Cash and cash equivalents		171,623		177,404
Time deposits placed and other short-term investments Federal funds sold and securities borrowed or purchased under agreements to resell (includes \$59,557 and \$56,399 measured at fair value)		9,480 267,017		7,494 261,131
Trading account assets (includes \$121,983 and \$119,363 pledged as collateral)		239,062		214,348
Derivative assets		42,391		43,725
Debt securities:		42,551		45,725
Carried at fair value		241,956		238,101
Held-to-maturity, at cost (fair value – \$198,530 and \$200,435)		198,718		203,652
Total debt securities		440,674		441,753
Loans and leases (includes \$6,187 and \$4,349 measured at fair value)		945,615		946,895
Allowance for loan and lease losses		(9,577)		(9,601)
Loans and leases, net of allowance		936,038		937,294
Premises and equipment, net		10,251		9,906
Goodwill		68,951		68,951
Loans held-for-sale (includes \$2,547 and \$2,942 measured at fair value)		6,297		10,367
Customer and other receivables		53,496		65,814
Other assets (includes \$22,929 and \$19,739 measured at fair value)		131,884		116,320
Total assets	\$	2,377,164	\$	2,354,507
Liabilities Deposits in U.S. offices:			•	440.507
Noninterest-bearing	\$	395,350	\$	412,587
Interest-bearing (includes \$499 and \$492 measured at fair value)		907,076		891,636
Deposits in non-U.S. offices:				
Noninterest-bearing		12,066		14,060
Interest-bearing		64,845		63,193
Total deposits Federal funds purchased and securities loaned or sold under agreements to repurchase (pathods 200 and 500 and		1,379,337		1,381,476
(includes \$26,609 and \$28,875 measured at fair value)		188,451		186,988
Trading account liabilities Derivative liabilities		84,410		68,220
		36,338		37,891
Short-term borrowings (includes \$1,895 and \$1,648 measured at fair value) Accrued expenses and other liabilities (includes \$23,373 and \$20,075 measured at fair value		14,008		20,189
and \$802 and \$797 of reserve for unfunded lending commitments)		173,681		165,026
Long-term debt (includes \$31,625 and \$27,689 measured at fair value)		233,929		229,392
Total liabilities		2,110,154		2,089,182
Commitments and contingencies (Note 7 – Securitizations and Other Variable Interest Entities and Note 11 – Commitments and Contingencies) Shareholders' equity				
Preferred stock, \$0.01 par value; authorized - 100,000,000 shares; issued and outstanding - 3,843,140 and 3,843,140 shares		22,326		22,326
Common stock and additional paid-in capital, \$0.01 par value; authorized – 12,800,000,000 shares; issued and outstanding – 9,568,389,268 and 9,669,286,370 shares		112,838		118,896
Retained earnings		141,888		136,314
Accumulated other comprehensive income (loss)		(10,042)		(12,211)
Total shareholders' equity		267,010		265,325
Total liabilities and shareholders' equity	•			
	\$	2,377,164	\$	2,354,507
Assets of consolidated variable interest entities included in total assets above (isolated to settle the liabilities of the variable interest entities)				
Trading account assets	\$	5,453	\$	5,798
Loans and leases		41,528		43,850
Allowance for loan and lease losses		(884)		(912)
Loans and leases, net of allowance		40,644		42,938
All other assets		332		337
Total assets of consolidated variable interest entities	\$	46,429	\$	49,073
Liabilities of consolidated variable interest entities included in total liabilities above				
Short-term borrowings	\$	1,547	\$	742
Long-term debt (includes \$8,181 and \$10,943 of non-recourse debt)		8,182		10,944
All other liabilities (includes \$22 and \$27 of non-recourse liabilities)		25		30
Total liabilities of consolidated variable interest entities	\$	9,754	\$	11,716

Bank of America Corporation and Subsidiaries

Consolidated Statement of Changes in Shareholders' Equity

			Common Additional F					Accumulated Other		Total		
(In millions)		Preferred Stock	Shares		Amount		Retained Earnings		omprehensive ncome (Loss)	S	hareholders' Equity	
Balance, December 31, 2017	\$	22,323	10,287.3	\$	138,089	\$	113,816	\$	(7,082)	\$	267,146	
Cumulative adjustment for adoption of hedge accounting standard							(32)		57		25	
Adoption of accounting standard related to certain tax effects stranded in accumulated other comprehensive income (loss)							1,270		(1,270)		_	
Net income							6,918		, ,		6,918	
Net change in debt and equity securities									(3,963)		(3,963)	
Net change in debit valuation adjustments									273		273	
Net change in derivatives									(275)		(275)	
Employee benefit plan adjustments									30		30	
Net change in foreign currency translation adjustments									(48)		(48)	
Dividends declared:												
Common							(1,237)				(1,237)	
Preferred							(428)				(428)	
Issuance of preferred stock		2,349									2,349	
Common stock issued under employee plans, net, and other			41.2		301		(9)				292	
Common stock repurchased			(152.6)		(4,858)						(4,858)	
Balance, March 31, 2018	\$	24,672	10,175.9	\$	133,532	\$	120,298	\$	(12,278)	\$	266,224	
Palausa Dasambar 24 2049	\$	22,326	0.660.2	\$	118,896	\$	136,314	\$	(42.244)	•	265,325	
Balance, December 31, 2018	Þ	22,326	9,669.3	Þ	118,896	Þ	136,314	Þ	(12,211)	\$	265,325	
Cumulative adjustment for adoption of lease accounting standard							7,311					
Net income							7,311		2,309		7,311 2,309	
Net change in debt and equity securities Net change in debit valuation adjustments									(363)		(363)	
Net change in derivatives									229		229	
Employee benefit plan adjustments									229		229	
Net change in foreign currency translation adjustments									(34)		(34)	
Dividends declared:									(34)		(34)	
Common							(1,456)				(1,456)	
Preferred							(442)				(442)	
Common stock issued under employee plans, net, and other			119.1		205		(442)				201	
Common stock repurchased			(220.0)		(6,263)		(4)				(6,263)	
Balance, March 31, 2019	\$	22,326	9,568.4	\$	112,838	\$	141,888	\$	(10,042)	\$	267,010	
Daiance, march 31, 2015	Ψ	22,320	9,500.4	Ψ	112,030	φ	141,000	φ	(10,042)	Ψ	201,010	

Consolidated Statement of Cash Flows

	Three Months E				
(Dollars in millions)	2019	2018			
Operating activities					
Net income	\$ 7,311	\$ 6,918			
Adjustments to reconcile net income to net cash provided by operating activities:					
Provision for credit losses	1,013	834			
Gains on sales of debt securities	(6)	(2)			
Depreciation and premises improvements amortization	392	376			
Amortization of intangibles	26	135			
Net amortization of premium/discount on debt securities	362	475			
Deferred income taxes	763	804			
Stock-based compensation	504	415			
Loans held-for-sale:	•••				
Originations and purchases	(3,566)	(5,745)			
Proceeds from sales and paydowns of loans originally classified as held for sale and instruments from related securitization activities	7,848	9,876			
Net change in:					
Trading and derivative instruments	(6,543)	15,807			
Other assets	3,995	11,233			
Accrued expenses and other liabilities	(346)	(814)			
Other operating activities, net	3,348	42			
Net cash provided by operating activities	15,101	40,354			
Investing activities	·	<u> </u>			
Net change in:					
Time deposits placed and other short-term investments	(1,986)	3,084			
Federal funds sold and securities borrowed or purchased under agreements to resell	(5,886)	(31,883)			
	(5,000)	(31,003)			
Debt securities carried at fair value:	24.420	200			
Proceeds from sales	31,136	683			
Proceeds from paydowns and maturities	18,903	19,052			
Purchases	(51,028)	(14,176)			
Held-to-maturity debt securities:					
Proceeds from paydowns and maturities	5,284	3,764			
Purchases	(416)	(2,453)			
Loans and leases: Proceeds from sales of loans originally classified as held for investment and instruments					
from related securitization activities	2,952	2,684			
Purchases	(1,060)	(1,609)			
Other changes in loans and leases, net	(1,999)	(1,190)			
Other investing activities, net	(667)	(805)			
Net cash used in investing activities	(4,767)	(22,849)			
Financing activities					
Net change in:					
Deposits	(2,139)	19,119			
Federal funds purchased and securities loaned or sold under agreements to repurchase	1,463	1,626			
Short-term borrowings	(6,181)	5,407			
Long-term debt:	(0,101)	0,101			
Proceeds from issuance	14,716	20,934			
Retirement	(14,292)	(13,577)			
Preferred stock:	(14,202)	(10,017)			
Proceeds from issuance	_	2,349			
Common stock repurchased	— (6,263)	(4,858)			
Cash dividends paid	(1,926)	(1,674)			
Other financing activities, net	(1,926)	(724)			
Net cash provided by (used in) financing activities	(15,508)	28,602			
Effect of exchange rate changes on cash and cash equivalents	(607)	700			
Net increase (decrease) in cash and cash equivalents	(5,781)	46,807			
Cash and cash equivalents at January 1	177,404	157,434			
Cash and cash equivalents at March 31	\$ 171,623	\$ 204,241			

Bank of America Corporation and Subsidiaries

Notes to Consolidated Financial Statements

NOTE 1 Summary of Significant Accounting Principles

Bank of America Corporation, a bank holding company and a financial holding company, provides a diverse range of financial services and products throughout the U.S. and in certain international markets. The term "the Corporation" as used herein 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.

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 accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect reported amounts and disclosures. Realized results could materially differ from those estimates and assumptions.

These unaudited Consolidated Financial Statements should be read in conjunction with the audited Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

The nature of the Corporation's business is such that the results of any interim period are not necessarily indicative of results for a full year. In the opinion of management, all adjustments, which consist of normal recurring adjustments necessary for a fair statement of the interim period results, have been made. The Corporation evaluates subsequent events through the date of filing with the Securities and Exchange Commission (SEC). Certain prior-period amounts have been reclassified to conform to current period presentation.

Accounting Standards Issued and Not Yet Adopted

Accounting for Financial Instruments -- Credit Losses

The Financial Accounting Standards Board issued a new accounting standard that will be effective for the Corporation on January 1, 2020. The Standard replaces the existing measurement of the allowance for credit losses that is based on management's best estimate of probable incurred credit losses inherent in the Corporation's lending activities with management's best estimate of lifetime expected credit losses inherent in the Corporation's financial assets that are recognized at amortized cost. The lifetime expected credit losses will be determined using macroeconomic forecast assumptions and management judgments applicable to

and through the expected life of the portfolios. The Standard will also expand credit quality disclosures. While the Standard changes the measurement of the allowance for credit losses, it does not change the Corporation's credit risk of its lending portfolios or the ultimate losses in those portfolios. The review and validation of the models and methodologies to be used in the credit loss estimation are in process and expected to be completed during 2019. The Corporation expects that, based on current expectations of future economic conditions, upon the adoption of the Standard, the Corporation's allowance for credit losses may increase by up to 20 percent from its allowance for credit losses as ofMarch 31, 2019, as disclosed herein, with a large portion of that increase being in the U.S. credit card portfolios as well as the macroeconomic conditions and forecasts upon adoption, the validation of models and methodologies, and other management judgments.

New Accounting Standards

Lease Accounting

On January 1, 2019, the Corporation adopted the new accounting standards that require lessees to recognize operating leases on the Consolidated Balance Sheet as right-of-use assets and lease liabilities based on the value of the discounted future lease payments. Lessor accounting is largely unchanged. Expanded disclosures about the nature and terms of lease agreements are required prospectively and are included in *Note 9 – Leases*. The Corporation elected to retain prior determinations of whether an existing contract contains a lease and how the lease should be classified. The Corporation elected to recognize leases existing on January 1, 2019 through a cumulative-effect adjustment which increased retained earnings by \$165 million, with no adjustment to prior periods presented. Upon adoption, the Corporation also recognized right-of-use assets and lease liabilities of \$9.7 billion. Adoption of the standard did not have a significant effect on the Corporation's regulatory capital measures.

Lease Accounting Principles

Lessor Arrangements

The Corporation provides equipment financing to its customers through a variety of lessor arrangements. Direct financing leases and sales-type leases are carried at the aggregate of lease payments receivable plus the estimated residual value of the leased property less unearned income, which is accreted to interest income over the lease terms using methods that approximate the interest method. Operating lease income is recognized on a straight-line basis. Leases generally do not contain non-lease components.

Lessee Arrangements

Substantially all of the Corporation's lessee arrangements are operating leases. Under these arrangements, the Corporation records right-of-use assets and lease liabilities at lease commencement. Right-of-use assets are reported in other assets on the Consolidated Balance Sheet, and the related lease liabilities are reported in accrued expenses and other liabilities. All leases are recorded on the Consolidated Balance Sheet except for leases with an initial term less than 12 months for which the Corporation made the short-term lease election. Lease expense is recognized on a straight-line basis over the lease term and is recorded in occupancy and equipment expense in the Consolidated Statement of Income.

The Corporation made an accounting policy election not to separate lease and non-lease components of a contract that is or contains a lease for its real estate and equipment leases. As such, lease payments represent payments on both lease and non-lease components. At lease commencement, lease liabilities are recognized based on the present value of the remaining lease payments and discounted using the Corporation's incremental borrowing rate. Right-of-use assets initially equal the lease liability, adjusted for any lease payments made prior to lease commencement and any lease incentives.

NOTE 2 Net Interest Income and Noninterest Income

The table below presents the Corporation's net interest income and noninterest income disaggregated by revenue source for the three months ended March 31, 2019 and 2018. For more information, see Note 1 – Summary of Significant Accounting Principles to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K. For a disaggregation of noninterest income by business segment and All Other, see Note 18 – Business Segment Information.

	Three Months	Ended March 31
(Dollars in millions)	2019	2018
Net interest income		
Interest income		
Loans and leases	\$ 10,885	\$ 9,623
Debt securities	3,119	2,804
Federal funds sold and securities borrowed or purchased under agreements to resell	1,195	622
Trading account assets	1,322	1,136
Other interest income	1,649	1,414
Total interest income	18,170	15,599
Interest expense		
Deposits	1,795	760
Short-term borrowings	1,852	1,135
Trading account liabilities	345	357
Long-term debt	1,803	1,578
Total interest expense	5,795	3,830
Net interest income	\$ 12,375	\$ 11,769
Card income Interchange fees (1)	\$ 896	\$ 914
Other card income	479	488
Total card income	1,375	1,402
Service charges		
Deposit-related fees	1,580	1,646
Lending-related fees	259	275
Total service charges	1,839	1,921
Investment and brokerage services		
Asset management fees	2,440	2,564
Brokerage fees	920	1,100
Total investment and brokerage services	3,360	3,664
Investment banking fees		
Underwriting income	666	740
Syndication fees	255	317
Financial advisory services	343	296
Total investment banking fees	1,264	1,353
Total fees and commissions	7,838	8,340
Trading account income	2,338	2,553
Other income	453	408
Total noninterest income	\$ 10,629	\$ 11,301

⁽¹⁾ Gross interchange fees were \$2.3 billion and \$2.2 billion for the three months ended March 31, 2019 and 2018, and are presented net of \$1.4 billion and \$1.3 billion, respectively, of expenses for rewards and partner payments.

NOTE 3 Derivatives

Derivative Balances

Derivatives are entered into on behalf of customers, for trading or to support risk management activities. Derivatives used in risk management activities include derivatives that may or may not be designated in qualifying hedge accounting relationships. Derivatives that are not designated in qualifying hedge accounting relationships are referred to as other risk management derivatives. For more information on the Corporation's derivatives and hedging activities, see Note 1 -Summary of Significant Accounting

Principles to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K. The following tables present derivative instruments included on the Consolidated Balance Sheet in derivative assets and liabilities at March 31, 2019 and December 31, 2018. Balances are presented on a gross basis, prior to the application of counterparty and cash collateral netting. Total derivative assets and liabilities are adjusted on an aggregate basis to take into consideration the effects of legally enforceable master netting agreements and have been reduced by cash collateral received or paid.

							March	31, 2019					
		Gross Derivative Assets							es				
			Trading and Other Qualifying						ng and Other	Qı			
(Dollars in billions)	Contract/ Notional (1)	RISK Ma Deri	Risk Management Derivatives		Accounting Hedges		Total	Risk Management Derivatives		Accounting Hedges			Total
Interest rate contracts													
Swaps	\$ 19,100.3	\$	152.8	\$	5.3	\$	158.1	\$	153.4	\$	1.1	\$	154.5
Futures and forwards	5,526.5		2.9		_		2.9		3.1		_		3.1
Written options	1,604.1		_		_		_		30.8		_		30.8
Purchased options	1,638.6		34.1		_		34.1		_		_		_
Foreign exchange contracts													
Swaps	1,732.6		35.7		1.4		37.1		37.5		1.8		39.3
Spot, futures and forwards	5,229.9		33.3		0.4		33.7		32.9		0.2		33.1
Written options	306.6		_		_		_		4.5		_		4.5
Purchased options	291.8		4.1		_		4.1		_		_		_
Equity contracts													
Swaps	278.4		5.3		_		5.3		6.4		_		6.4
Futures and forwards	119.9		0.4		_		0.4		0.6		_		0.6
Written options	714.9		_		_		_		29.5		_		29.5
Purchased options	667.9		35.6		_		35.6		_		_		_
Commodity contracts													
Swaps	43.7		1.6		_		1.6		3.7		_		3.7
Futures and forwards	57.8		3.1		_		3.1		0.5		_		0.5
Written options	26.9		_		_		_		1.1		_		1.1
Purchased options	27.0		1.1		_		1.1		_		_		_
Credit derivatives (2)													
Purchased credit derivatives:													
Credit default swaps	425.4		4.2		_		4.2		6.3		_		6.3
Total return swaps/options	79.4		0.2		_		0.2		1.0		_		1.0
Written credit derivatives:													
Credit default swaps	382.6		6.0		_		6.0		3.4		_		3.4
Total return swaps/options	73.3		0.7		_		0.7		0.4				0.4
Gross derivative assets/liabilities		\$	321.1	\$	7.1	\$	328.2	\$	315.1	\$	3.1	\$	318.2
Less: Legally enforceable master netting agreements							(253.3)						(253.3)
Less: Cash collateral received/paid							(32.5)						(28.6)
Total derivative assets/liabilities						\$	42.4				<u> </u>	\$	36.3

Bank of America

⁽¹⁾ Represents the total contract/notional amount of derivative assets and liabilities outstanding.
(2) The net derivative asset (liability) and notional amount of written credit derivatives for which the Corporation held purchased credit derivatives with identical underlying referenced names wer\$2.0 billion and \$361.9 billion at March 31, 2019.

							Decembe	r 31, 20	18					
			Gross Derivative Assets					Gross Derivative Liabilities						
(Dollars in billions)	Contract/ Notional (1)	Risk M	ng and Other Management erivatives		Qualifying Accounting Hedges		Total	Trading and Other Risk Management Derivatives		Qualifying Accounting Hedges			Total	
Interest rate contracts											-			
Swaps	\$ 15,977.9	\$	141.0	\$	3.2	\$	144.2	\$	138.9	\$	2.0	\$	140.9	
Futures and forwards	3,656.6		4.7		_		4.7		5.0		_		5.0	
Written options	1,584.9		_		_		_		28.6		_		28.6	
Purchased options	1,614.0		30.8		_		30.8		_		_		_	
Foreign exchange contracts														
Swaps	1,704.8		38.8		1.4		40.2		42.2		2.3		44.5	
Spot, futures and forwards	4,276.0		39.8		0.4		40.2		39.3		0.3		39.6	
Written options	256.7		_		_		_		5.0		_		5.0	
Purchased options	240.4		4.6		_		4.6		_		_		_	
Equity contracts														
Swaps	253.6		7.7		_		7.7		8.4		_		8.4	
Futures and forwards	100.0		2.1		_		2.1		0.3		_		0.3	
Written options	597.1		_		_		_		27.5		_		27.5	
Purchased options	549.4		36.0		_		36.0		_		_		_	
Commodity contracts														
Swaps	43.1		2.7		_		2.7		4.5		_		4.5	
Futures and forwards	51.7		3.2		_		3.2		0.5		_		0.5	
Written options	27.5		_		_		_		2.2		_		2.2	
Purchased options	23.4		1.7		_		1.7		_		_		_	
Credit derivatives (2)														
Purchased credit derivatives:														
Credit default swaps	408.1		5.3		_		5.3		4.9		_		4.9	
Total return swaps/options	84.5		0.4		_		0.4		1.0		_		1.0	
Written credit derivatives:														
Credit default swaps	371.9		4.4		_		4.4		4.3		_		4.3	
Total return swaps/options	87.3		0.6		_		0.6		0.6		_		0.6	
Gross derivative assets/liabilities		\$	323.8	\$	5.0	\$	328.8	\$	313.2	\$	4.6	\$	317.8	
Less: Legally enforceable master netting agreements							(252.7)						(252.7)	
Less: Cash collateral received/paid							(32.4)						(27.2)	
Total derivative assets/liabilities	 					\$	43.7					\$	37.9	

(1) Represents the total contract/notional amount of derivative assets and liabilities outstanding.
(2) The net derivative asset (liability) and notional amount of written credit derivatives for which the Corporation held purchased credit derivatives with identical underlying referenced names wer6(185) million and \$342.8 billion at December 31, 2018.

Offsetting of Derivatives

The Corporation enters into International Swaps and Derivatives Association, Inc. (ISDA) master netting agreements or similar agreements with substantially all of the Corporation's derivative counterparties. For additional information, see Note 3 -Derivatives to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

The following table presents derivative instruments included in derivative assets and liabilities on the Consolidated Balance Sheet at March 31, 2019 and December 31, 2018 by primary risk (e.g., interest rate risk) and the platform, where applicable, on

which these derivatives are transacted. Balances are presented on a gross basis, prior to the application of counterparty and cash collateral netting. Total gross derivative assets and liabilities are adjusted on an aggregate basis to take into consideration the effects of legally enforceable master netting agreements which include reducing the balance for counterparty netting and cash collateral received or

For more information on offsetting of securities financing agreements, see Note 10 - Federal Funds Sold or Purchased, Securities Financing Agreements, Shortterm Borrowings and Restricted Cash.

Offsetting of Derivatives (1)

	ı	Derivative Assets	Derivative	Liabilities	Derivative Assets	Derivati	ve Liabilities
(Dollars in billions)		March	31, 2019	Decembe	er 31, 2018		
Interest rate contracts							
Over-the-counter	\$	187.9	\$	181.9	\$ 174.2	\$	169.4
Over-the-counter cleared		5.5		4.7	4.8		4.0
Foreign exchange contracts							
Over-the-counter		72.7		74.2	82.5		86.3
Over-the-counter cleared		1.0		1.1	0.9		0.9
Equity contracts							
Over-the-counter		21.0		14.7	24.6		14.6
Exchange-traded		14.2		13.3	16.1		15.1
Commodity contracts							
Over-the-counter		2.3		3.5	3.5		4.5
Exchange-traded		0.7		0.6	1.0		0.9
Credit derivatives							
Over-the-counter		7.1		7.6	7.7		8.2
Over-the-counter cleared		3.3		3.1	2.5		2.3
Total gross derivative assets/liabilities, before netting							
Over-the-counter		291.0		281.9	292.5		283.0
Exchange-traded		14.9		13.9	17.1		16.0
Over-the-counter cleared		9.8		8.9	8.2		7.2
Less: Legally enforceable master netting agreements and cash collateral received/paid							
Over-the-counter		(265.7)		(262.3)	(264.4)		(259.2)
Exchange-traded		(12.3)		(12.3)	(13.5)		(13.5)
Over-the-counter cleared		(7.8)		(7.3)	(7.2)		(7.2)
Derivative assets/liabilities, after netting		29.9		22.8	32.7		26.3
Other gross derivative assets/liabilities (2)		12.5		13.5	11.0		11.6
Total derivative assets/liabilities		42.4		36.3	43.7		37.9
Less: Financial instruments collateral (3)		(15.4)		(9.5)	(16.3)		(8.6)
Total net derivative assets/liabilities	\$	27.0	\$	26.8	\$ 27.4	\$	29.3

ALM and Risk Management Derivatives

The Corporation's asset and liability management (ALM) and risk management activities include the use of derivatives to mitigate risk to the Corporation including derivatives designated in qualifying hedge accounting relationships and derivatives used in other risk management activities. For additional information, see Note 3 -Derivatives to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

Derivatives Designated as Accounting Hedges

The Corporation uses various types of interest rate and foreign exchangederivative contracts to protect against changes in the

fair value of its assets and liabilities due to fluctuations in interest rates and exchange rates (fair value hedges). The Corporation also uses these types of contracts to protect against changes in the cash flows of its assets and liabilities, and other forecasted transactions (cash flow hedges). The Corporation hedges its net investment in consolidated non-U.S. operations determined to have functional currencies other than the U.S. dollar using forward exchange contracts and crosscurrency basis swaps, and by issuing foreign currency-denominated debt (net investment hedges).

⁽¹⁾ Over-the-counter (OTC) derivatives include bilateral transactions between the Corporation and a particular counterparty. OTC-cleared derivatives include bilateral transactions between the Corporation and a counterparty where the transaction is cleared through a clearinghouse. Exchange-traded derivatives include listed options transacted on an exchange.

(2) Consists of derivatives entered into under master netting agreements where the enforceability of these agreements is uncertain under bankruptcy laws in some countries or industries.

(3) Amounts are limited to the derivative asset/liability balance and, accordingly, do not include excess collateral received/pledged. Financial instruments collateral includes securities collateral received or pledged and cash securities held and posted at third-party custodians that are not offset on the Consolidated Balance Sheet but shown as a reduction to derive net derivative assets and liabilities.

Gains and Losses on Derivatives Designated as Fair Value Hedges

	 Three Months Ended March 31										
	 20			20)18						
(Dollars in millions)	 Derivative	Hedged Item			Derivative		Hedged Item				
Interest rate risk on long-term debt (1)	\$ \$ 1,913		(1,929)	\$	(2,305)	\$	2,236				
Interest rate and foreign currency risk on long-term debt (2)	57		(48)		322		(346)				
Interest rate risk on available-for-sale securities (3)	(45)	(45) 43		(3			30				
Total	\$ 1,925	\$	(1,934)	\$	(2,014)	\$	1,920				

(1) Amounts are recorded in interest expense in the Consolidated Statement of

Income. (2) For the three months ended March 31, 2019 and 2018, the derivative amount includes gains of\$170 million and losses of \$64 million in interest expense and losses of\$121 million and gains of\$433 million in other income. Line item totals are in the Consolidated Statement of Income.

(3) Amounts are recorded in interest income in the Consolidated Statement of Income.

The table below summarizes the carrying value of hedged assets and liabilities that are designated and qualifying in fair value hedging relationships along with the cumulative amount of fair value hedging adjustments included in the carrying value that have been recorded in the current hedging relationships. These fair value hedging adjustments are open basis adjustments that are not subject to amortization as long as the hedging relationship remains designated.

Designated Fair Value Hedged Assets (Liabilities)

	March 31, 2019				Decembe	er 31,	2018
_	Carrying Value	Fa	ımulative air Value ıstments (1)		Carrying Value		Cumulative Fair Value Adjustments (1)
\$	(148,566)	\$	(4,691)	\$	(138,682)	\$	(2,117)
	1,596		4		981		(29)

(1) For assets, increase (decrease) to carrying value and for liabilities, (increase) decrease to carrying value.

At March 31, 2019 and December 31, 2018, the cumulative fair value adjustments remaining on long-term debt and available-for-sale (AFS) debt securities from discontinued hedging relationships resulted in a decrease to the related liability of \$1.7 billion and \$1.6 billion and an increase (decrease) to the related asset of \$2 million and \$(29) million, which are being amortized over the remaining contractual life of the de-designated hedged items.

Cash Flow and Net Investment Hedges

The following table summarizes certain information related to cash flow hedges and net investment hedges for the three months

ended March 31, 2019 and 2018. Of the \$787 million after-tax net loss (\$1.0 billion pretax) on derivatives in accumulated other comprehensive income (OCI) at March 31, 2019, \$196 million after-tax (\$258 million pretax) is expected to be reclassified into earnings in the next 12 months. These net losses reclassified into earnings are expected to primarily reduce net interest income related to the respective hedged items. For terminated cash flow hedges, the time period over which the majority of the forecasted transactions are hedged is approximately 4 years, with a maximum length of time for certain forecasted transactions of 17 years.

Gains and Losses on Derivatives Designated as Cash Flow and Net Investment Hedges

	Three Months Ended March 31											
		2	019			2	2018					
Dollars in millions)	Recognized in Accumulated OCI on F			Gains (Losses) in Income Reclassified from Accumulated OCI		Gains (Losses) Recognized in cumulated OCI on Derivatives		Gains (Losses) in Income Reclassified from Accumulated OCI				
Cash flow hedges												
Interest rate risk on variable-rate assets (1)	\$	254	\$	(23)	\$	(428)	\$	(50)				
Price risk on certain restricted stock awards (2)		_		_		4		27				
Total	\$	254	\$	(23)	\$	(424)	\$	(23)				
Net investment hedges												
Foreign exchange risk (3)	\$	6	\$	1	\$	(244)	\$	(1)				

(1) Amounts reclassified from accumulated OCI are recorded in interest income in the Consolidated Statement of

Income.

(2) Amounts reclassified from accumulated OCI are recorded in compensation and benefits expense in the Consolidated Statement of Income.

(3) Amounts reclassified from accumulated OCI are recorded in other income in the Consolidated Statement of Income. For the three months ended March 31, 2019 and 2018, amounts excluded from effectiveness testing and recognized in other income were gains of \$53 million and \$4 million.

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Other Risk Management Derivatives

Other risk management derivatives are used by the Corporation to reduce certain risk exposures by economically hedging various assets and liabilities. The gains and losses on these derivatives are recognized in other income. The table below presents gains (losses) on these derivatives for the three months ended March 31, 2019 and 2018. These gains (losses) are largely offset by the income or expense recorded on the hedged item.

Gains and Losses on Other Risk Management Derivatives

	Three Months E	nded	March 31
(Dollars in millions)	2019		2018
Interest rate risk on mortgage activities (1)	\$ 104	\$	(135)
Credit risk on loans	(26)		(3)
Interest rate and foreign currency risk on ALM activities (2)	1,112		(139)

- (1) Primarily related to hedges of interest rate risk on mortgage servicing rights (MSRs) and interest rate lock commitments (IRLCs) to originate mortgage loans that will be held for sale. The net gains on IRLCs, which are not included in the table but are considered derivative instruments, were \$12 million and \$14 million for the three months ended March 31, 2019 and 2018.
- (2) Primarily related to hedges of debt securities carried at fair value and hedges of foreign currency-denominated debt.

Transfers of Financial Assets with Risk Retained through Derivatives

The Corporation enters into certain transactions involving the transfer of financial assets that are accounted for as sales where substantially all of the economic exposure to the transferred financial assets is retained through derivatives (e.g., interest rate and/or credit), but the Corporation does not retain control over the assets transferred. As of March 31, 2019 and December 31, 2018, the Corporation had transferred \$5.7 billion and \$5.8 billion of non-U.S. government-guaranteed mortgage-backed securities (MBS) to a third-party trust and retained economic exposure to the transferred assets through derivative contracts. In connection with these transfers, the Corporation received gross cash proceeds of \$5.6 billion and \$5.8 billion at the transfer dates. At both March 31, 2019 and December 31, 2018, the fair value of the transferred securities was \$5.5 billion.

Sales and Trading Revenue

The Corporation enters into trading derivatives to facilitate client transactions and to manage risk exposures arising from trading account assets and liabilities. It is the Corporation's policy to include these derivative instruments in its trading activities which include derivatives and non-derivative cash instruments. The resulting risk from these derivatives is managed on a portfolio basis as part of the Corporation's *Global Markets* business segment. For more information on sales and trading revenue, see *Note 3 – Derivatives* to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

The table below, which includes both derivatives and non-derivative cash instruments, identifies the amounts in the

respective income statement line items attributable to the Corporation's sales and trading revenue in *Global Markets*, categorized by primary risk, for the three months ended March 31, 2019 and 2018. The difference between total trading account income in the following table and in the Consolidated Statement of Income represents trading activities in business segments other than *Global Markets*. This table includes debit valuation adjustment (DVA) and funding valuation adjustment (FVA) gains (losses). *Global Markets* results in *Note 18 – Business Segment Information* are presented on a fully taxable-equivalent (FTE) basis. The table below is not presented on an FTE basis.

Sales and Trading Revenue

	Trading Account Income	N	let Interest Income		Other (1)	Total
(Dollars in millions)		Thre	e Months End	ed M	arch 31, 2019	
Interest rate risk	\$ 286	\$	414	\$	82	\$ 782
Foreign exchange risk	318		16		3	337
Equity risk	969		(176)		395	1,188
Credit risk	501		429		134	1,064
Other risk	9		19		12	40
Total sales and trading revenue	\$ 2,083	\$	702	\$	626	\$ 3,411
		Thre	ee Months Ende	ed Ma	arch 31, 2018	
Interest rate risk	\$ 459	\$	413	\$	71	\$ 943
Foreign exchange risk	402		(1)		4	405
Equity risk	1,126		(96)		457	1,487
Credit risk	540		466		147	1,153
Other risk	29		47		15	91
Total sales and trading revenue	\$ 2,556	\$	829	\$	694	\$ 4,079

⁽¹⁾ Represents amounts in investment and brokerage services and other income that are recorded inGlobal Markets and included in the definition of sales and trading revenue. Includes investment and brokerage services revenue of \$433 million and \$476 million for the three months ended March \$1,2019 and 2018.

Credit Derivatives

The Corporation enters into credit derivatives primarily to facilitate client transactions and to manage credit risk exposures. Credit derivatives are classified as investment and non-investment grade based on the credit quality of the underlying referenced obligation. The Corporation considers ratings of BBB- or higher as investment grade. Non-investment grade includes non-rated credit derivative instruments. The Corporation discloses internal categorizations of investment grade and non-investment grade consistent with how risk is managed for these instruments. For more information on credit derivatives, see *Note 3 – Derivatives* to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

Credit derivative instruments where the Corporation is the seller of credit protection and their expiration at March 31, 2019 and December 31, 2018 are summarized in the following table.

Credit Derivative Instruments

		Less than One Year	One to Three Years	Three to Five Years		Over Five Years		Total
(Dellars is william)				March 31, 2019				
(Dollars in millions)				Carrying Value				
Credit default swaps:	•		-	. 400	•	505	•	700
Investment grade	\$	474	\$ 7	\$ 188	\$	505	\$	700
Non-investment grade		174	486	757		1,311		2,728
Total		174	493	945		1,816		3,428
Total return swaps/options:								
Investment grade		35	_	_		_		35
Non-investment grade		305	17	_		_		322
Total		340	17					357
Total credit derivatives	\$	514	\$ 510	\$ 945	\$	1,816	\$	3,785
Credit-related notes:								
Investment grade	\$	_	\$ 3	\$ —	\$	575	\$	578
Non-investment grade		1	_	1		1,569		1,571
Total credit-related notes	\$	1	\$ 3	\$ 1	\$	2,144	\$	2,149
Non-investment grade		nal						
Credit default swaps:								
Investment grade	\$	52,444	\$ 95,398	\$ 118,377	\$	10,881	\$	277,100
Non-investment grade		21,642	31,254	41,546		11,064		105,506
Total		74,086	126,652	159,923		21,945		382,606
Total return swaps/options:								
Investment grade		54,991	430	60		73		55,554
Non-investment grade		17,245	436	39		65		17,785
Total		72,236	866	99		138		73,339
Total credit derivatives	\$	146,322	\$ 127,518	\$ 160,022	\$	22,083	\$	455,945
				December 31, 2018				
				Carrying Value				
Credit default swaps:								
Investment grade	\$	2	\$ 44	\$ 436	\$	488	\$	970
Non-investment grade		132	636	914		1,691		3,373
Total		134	680	1,350		2,179		4,343
Total return swaps/options:								
Investment grade		105	_	_		_		105
Non-investment grade		472	21	_		_		493
Total		577	21	_		_		598
Total credit derivatives	\$	711	\$ 701	\$ 1,350	\$	2,179	\$	4,941
Credit-related notes:								
Investment grade	\$	_	\$ _	\$ 4	\$	532	\$	536
Non-investment grade		1	1	1		1,500		1,503
Total credit-related notes	\$	1	\$ 1	\$ 5	\$	2,032	\$	2,039
	•			Maximum Payout/Notion				,,,,,
Credit default swaps:								
Investment grade	\$	53,758	\$ 95,699	\$ 95,274	\$	20,054	\$	264,785
Non-investment grade		24,297	33,881	34,530		14,426		107,134
Total		78,055	129,580	129,804		34,480		371,919
		,	,,,,,	-,-2-				¥* *
Total return swaps/options:		00.040	000	50		70		60.005
Investment grade		60,042	822	59		72		60,995
Non-investment grade		24,524	1,649	39		70		26,282
Total		84,566	2,471	98		142		87,277
Total credit derivatives	\$	162,621	\$ 132,051	\$ 129,902	\$	34,622	\$	459,196

The notional amount represents the maximum amount payable by the Corporation for most credit derivatives. However, the Corporation does not monitor its exposure to credit derivatives based solely on the notional amount because this measure does not take into consideration the probability of occurrence. As such, the notional amount is not a reliable indicator of the Corporation's exposure to these contracts. Instead, a risk framework is used to define risk tolerances and establish limits so that certain credit risk-related losses occur within acceptable, predefined limits.

Credit-related notes in the table above include investments in securities issued by collateralized debt obligation (CDO), collateralized loan obligation and credit-linked note vehicles. These instruments are primarily classified as trading securities. The carrying value of these instruments equals the Corporation's maximum exposure to loss. The Corporation is not obligated to make any payments to the entities under the terms of the securities owned.

Credit-related Contingent Features and Collateral

A majority of the Corporation's derivative contracts contain credit risk-related contingent features, primarily in the form of ISDA master netting agreements and credit support documentation that enhance the creditworthiness of these instruments compared to other obligations of the respective counterparty with whom the Corporation has transacted. These contingent features may be for the benefit of the Corporation as well as its counterparties with respect to changes in the Corporation's creditworthiness and the mark-to-market exposure under the derivative transactions. At March 31, 2019 and December 31, 2018, the Corporation held cash and securities collateral of \$80.2 billion and \$81.6 billion, and posted cash and securities collateral of \$57.4 billion and \$56.5 billion in the normal course of business under derivative agreements, excluding cross-product margining agreements where clients are permitted to margin on a net basis for both derivative and secured financing arrangements.

In connection with certain OTC derivative contracts and other trading agreements, the Corporation can 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 more information on credit-related contingent features and collateral, see *Note 3 – Derivatives* to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

At March 31, 2019, the amount of collateral, calculated based on the terms of the contracts, that the Corporation and certain subsidiaries could be required to post to counterparties but had not yet posted to counterparties was \$2.3 billion, including \$1.1 billion for Bank of America, National Association.

Some counterparties are currently able to unilaterally terminate certain contracts, or the Corporation or certain subsidiaries may be required to take other action such as find a suitable replacement or obtain a guarantee. At March 31, 2019 and December 31, 2018, the liability recorded for these derivative contracts was not significant.

The table below presents the amount of additional collateral that would have been contractually required by derivative contracts and other trading agreements at March 31, 2019 if the rating agencies had downgraded their long-term senior debt ratings for the Corporation or certain subsidiaries by one incremental notch and by an additional second incremental notch.

Additional Collateral Required to be Posted Upon Downgrade at March 31, 2019

	_	econd ental notch
\$ 448	\$	383
177		289
	•	incremental notch incremental state of the s

⁽¹⁾ Included in Bank of America Corporation collateral requirements in this table

The following table presents the derivative liabilities that would be subject to unilateral termination by counterparties and the amounts of collateral that would have been contractually required at March 31, 2019 if the long-term senior debt ratings for the Corporation or certain subsidiaries had been lower by one incremental notch and by an additional second incremental notch.

Derivative Liabilities Subject to Unilateral Termination Upon Downgrade at March 31, 2019

			Second				
Pollars in millions)		incremental notch	incremental notch				
Derivative liabilities	\$	90	;	\$ 633			
Collateral posted		64		448			

Valuation Adjustments on Derivatives

The table below presents credit valuation adjustment (CVA), DVA and FVA gains (losses) on derivatives, which are recorded in trading account income, on a gross and net of hedge basis for the three months ended March 31, 2019 and 2018 For more information on the valuation adjustments on derivatives, see *Note 3 – Derivatives* to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

Valuation Adjustments on Derivatives (1)

		Thi	ree Months E	Ended N	larch 31		
Gains (Losses)	\$	2019 20					
(Dollars in millions)	Gross Net Gross				Net		
Derivative assets (CVA)	\$	66 \$	25	\$	(24) \$	18	
Derivative assets/liabilities (FVA)		7	23		(37)	(1)	
Derivative liabilities (DVA)		(81)	(65)		114	106	

⁽¹⁾ At March 31, 2019 and December 31, 2018, cumulative CVA reduced the derivative assets balance by\$534 million and \$600 million, cumulative FVA reduced the net derivatives balance by\$144 million and \$151 million, and cumulative DVA reduced the derivative liabilities balance by \$350 million and \$432 million, respectively.

NOTE 4 Securities

The table below presents the amortized cost, gross unrealized gains and losses, and fair value of AFS debt securities, other debt securities carried at fair value and held-to-maturity (HTM) debt securities at March 31, 2019 and December 31, 2018.

Debt Securities

		ortized Cost	Gross Unrealized Gains		Gross Unrealized Losses		Fair Value
(Dollars in millions)				March	31, 201	19	
Available-for-sale debt securities							
Mortgage-backed securities:							
Agency	:	\$ 118,899	\$	217	\$	(1,951)	\$ 117,165
Agency-collateralized mortgage obligations		5,411		35		(67)	5,379
Commercial		14,489		48		(168)	14,369
Non-agency residential (1)		1,772		251		(8)	2,015
Total mortgage-backed securities		140,571		551		(2,194)	138,928
U.S. Treasury and agency securities		61,461		261		(698)	61,024
Non-U.S. securities		10,759		5		(2)	10,762
Other taxable securities, substantially all asset-backed securities		3,375		59		(1)	3,433
Total taxable securities		216,166		876		(2,895)	214,147
Tax-exempt securities		17,360		148		(42)	17,466
Total available-for-sale debt securities		233,526		1,024		(2,937)	231,613
Other debt securities carried at fair value		10,152		211		(20)	10,343
Total debt securities carried at fair value		243,678		1,235		(2,957)	241,956
Held-to-maturity debt securities, substantially all U.S. agency mortgage-backed securities		198,718		1,949		(2,137)	198,530
Total debt securities (2, 3)	:	\$ 442,396	\$	3,184	\$	(5,094)	\$ 440,486
	_			Decembe	er 31, 2	018	
Available-for-sale debt securities							
Mortgage-backed securities:							
Agency	:	\$ 125,116	\$	138	\$	(3,428)	\$ 121,826
Agency-collateralized mortgage obligations		5,621		19		(110)	5,530
Commercial		14,469		11		(402)	14,078
Non-agency residential (1)		1,792		136		(11)	1,917
Total mortgage-backed securities		146,998		304		(3,951)	143,351
U.S. Treasury and agency securities		56,239		62		(1,378)	54,923
Non-U.S. securities		9,307		5		(6)	9,306
Other taxable securities, substantially all asset-backed securities		4,387		29		(6)	4,410
Total taxable securities		216,931		400		(5,341)	211,990
Tax-exempt securities		17,349		99		(72)	17,376
Total available-for-sale debt securities		234,280		499		(5,413)	229,366
Other debt securities carried at fair value		8,595		172		(32)	8,735
Total debt securities carried at fair value		242,875		671		(5,445)	238,101
Held-to-maturity debt securities, substantially all U.S. agency mortgage-backed securities		203,652		747		(3,964)	200,435
Total debt securities (2, 3)		\$ 446,527	\$	1,418	\$	(9,409)	\$ 438,536

⁽¹⁾ At both March 31, 2019 and December 31, 2018, the underlying collateral type included approximately 68 percent prime, four percent Alt-A and 28 percent

At March 31, 2019, the accumulated net unrealized loss on AFS debt securities included in accumulated OCI was \$1.4 billion, net of the related income tax benefit of \$493 million. The Corporation had nonperforming AFS debt securities of \$11 million at both March 31, 2019 and December 31, 2018.

At March 31, 2019, the Corporation held equity securities at an aggregate fair value of \$881 million and other equity securities, as valued under the measurement alternative, at cost of \$228 million, both of which are included in other assets. At March 31, 2019, the Corporation also held equity securities at fair value of

\$1.2 billion included in time deposits placed and other short-term investments.

The following table presents the components of other debt securities carried at fair value where the changes in fair value are reported in other income. In the three months ended March 31, 2019, the Corporation recorded unrealized mark-to-market net gains of \$51 million and realized net gains of \$20 million, and in the three months ended March 31, 2018, unrealized mark-to-market net gains of \$41 million and realized net losses of \$6 million. These amounts exclude hedge results.

subprime.
(2) Includes securities pledged as collateral of \$47.9 billion and \$40.6 billion at March 31, 2019 and December 31,

<sup>2018.
(3)</sup> The Corporation held debt securities from Fannie Mae (FNMA) and Freddie Mac (FHLMC) that each exceeded 10 percent of shareholders' equity, with an amortized cost of \$158.7 billion and \$52.0 billion, and a fair value of \$158.3 billion and \$51.9 billion at March 31, 2019, and an amortized cost of \$161.2 billion and \$52.2 billion, and a fair value of \$158.5 billion and \$51.4 billion at December 31, 2018.

The gross realized gains and losses on sales of AFS debt securities for thethree months ended March 31, 2019 and 2018 are presented in the table below.

Other Debt Securities Carried at Fair Value

	March 31	December 31
(Dollars in millions)	 2019	2018
Mortgage-backed securities	\$ 2,651	\$ 1,606
U.S. Treasury and agency securities	_	1,282
Non-U.S. securities (1)	7,689	5,844
Other taxable securities, substantially all asset-backed securities	3	3
Total	\$ 10,343	\$ 8,735

⁽¹⁾ These securities are primarily used to satisfy certain international regulatory liquidity requirements.

Gains and Losses on Sales of AFS Debt Securities

	 Three Months I	Ended	2018 2				
(Dollars in millions)	2019	2018					
Gross gains	\$ 117	\$		2			
Gross losses	(111)			_			
Net gains on sales of AFS debt securities	\$ 6	\$		2			
Income tax expense attributable to realized net gains on sales of AFS debt securities	\$ 2	\$		_			

The table below presents the fair value and the associated gross unrealized losses on AFS debt securities and whether these securities have had gross unrealized losses for less than 12 months or for 12 months or longer at March 31, 2019 and December 31, 2018.

Temporarily Impaired and Other-than-temporarily Impaired AFS Debt Securities

	 Less than 1	Twelve	Months	Twelve Months or Longer				Total			
	 Fair Value	ı	Gross Unrealized Losses		Fair Value		Gross nrealized Losses		Fair Value		Gross Jnrealized Losses
(Dollars in millions)					March	31, 201	9				
Temporarily impaired AFS debt securities											
Mortgage-backed securities:											
Agency	\$ 820	\$	(2)	\$	98,153	\$	(1,949)	\$	98,973	\$	(1,951
Agency-collateralized mortgage obligations	61		_		3,495		(67)		3,556		(67
Commercial	1,004		(4)		9,396		(164)		10,400		(168
Non-agency residential	86		(8)		1		_		87		(8
Total mortgage-backed securities	1,971		(14)		111,045		(2,180)		113,016		(2,194
U.S. Treasury and agency securities	250		(1)		43,444		(697)		43,694		(698
Non-U.S. securities	2,350		(1)		59		(1)		2,409		(2
Other taxable securities, substantially all asset-backed securities	265		_		65		(1)		330		(1
Total taxable securities	4,836		(16)		154,613		(2,879)		159,449		(2,895
Tax-exempt securities	123		_		1,470		(42)		1,593		(42
Total temporarily impaired AFS debt securities	4,959		(16)		156,083		(2,921)		161,042		(2,937
Non-agency residential mortgage-backed securities Total temporarily impaired and other-than-temporarily impaired	53		(1)		83		1		136		
AFS debt securities	\$ 5,012	\$	(17)	\$	156,166	\$	(2,920)	\$	161,178	\$	(2,937
		December 31, 2018									
Temporarily impaired AFS debt securities											
Mortgage-backed securities:											
Agency	\$ 14,771	\$	(49)	\$	99,211	\$	(3,379)	\$	113,982	\$	(3,428
Agency-collateralized mortgage obligations	3		_		4,452		(110)		4,455		(110
Commercial	1,344		(8)		11,991		(394)		13,335		(402
Non-agency residential	106		(8)		49		(3)		155		(1
Total mortgage-backed securities	16,224		(65)		115,703		(3,886)		131,927		(3,951
U.S. Treasury and agency securities	288		(1)		51,374		(1,377)		51,662		(1,378
Non-U.S. securities	773		(5)		21		(1)		794		(6
Other taxable securities, substantially all asset-backed securities	183		(1)		185		(5)		368		(6
Total taxable securities	17,468		(72)		167,283		(5,269)		184,751		(5,341
Tax-exempt securities	232		(2)		2,148		(70)		2,380		(72
Total temporarily impaired AFS debt securities	17,700		(74)		169,431		(5,339)		187,131		(5,41
Other-than-temporarily impaired AFS debt securities (1)											
Non-agency residential mortgage-backed securities	131				3				134		_
Total temporarily impaired and other-than-temporarily impaired AFS debt securities	\$										

⁽¹⁾ Includes other-than-temporarily impaired AFS debt securities on which an OTTI loss, primarily related to changes in interest rates, remains in accumulated OCI.

The Corporation had \$2 million and \$4 million of credit-related other-thantemporary impairment (OTTI) losses on AFS debt securities which were recognized in other income for the three months ended March 31, 2019 and 2018. The amount of noncredit-related OTTI losses recognized in OCI was not significant for both periods presented. The cumulative OTTI credit losses recognized in income on AFS debt securities that the Corporation does not intend to sell were 122 million and 278 million at March 31, 2019 and 2018.

For more information on OTTI losses and significant assumptions used for the Corporation's underlying collateral, see Note 4 - Securities to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K Significant assumptions used in estimating the expected cash flows for measuring credit losses on non-agency residential mortgage-backed securities (RMBS) were as follows at March 31, 2019.

Significant Assumptions

		Range	e (1)
	Weighted average	10th Percentile (2)	90th Percentile (2)
Prepayment speed	12.1 %	3.0 %	21.0 %
Loss severity	20.5	8.6	38.5
Life default rate	17.3	1.2	65.6

Annual constant prepayment speed and loss severity rates are projected considering collateral characteristics such as loan-to-value (LTV), creditworthiness of borrowers as measured using Fair Isaac Corporation (FICO) scores, and geographic concentrations. The weighted-average severity by collateral type was 15.8 percent for prime, 16.1 percent for Alt-A and 25.3 percent for subprime at March 31, 2019. Default rates are projected by considering collateral characteristics including, but not limited to, LTV, FICO and geographic concentration. Weightedaverage life default rates by collateral type were 12.5 percent for prime, 16.2 percent for Alt-A and 20.6 percent for subprime at March 31, 2019.

The remaining contractual maturity distribution and yields of the Corporation's debt securities carried at fair value and HTM debt securities at March 31, 2019 are summarized in the table below. Actual duration and yields may differ as prepayments on the loans underlying the mortgages or other asset-backed securities (ABS) are passed through to the Corporation.

Maturities of Debt Securities Carried at Fair Value and Held-to-maturity Debt Securities

		in One or Less		One Year Five Years		Five Years Ten Years	Due after Ten Years					otal
(Dollars in millions)	Amount	Yield (1)	Amount	Yield (1)	Amount	Yield (1)	Amount	Yield (1)	Amount	Yield (1)		
Amortized cost of debt securities carried at fair value												
Mortgage-backed securities:												
Agency	\$	-%	\$ 143	2.29 %	\$ 1,557	2.41 %	\$ 118,203	3.32 %	\$ 119,903	3.31 %		
Agency-collateralized mortgage obligations	_	_	_	_	29	2.52	5,382	3.17	5,411	3.17		
Commercial	135	1.78	2,498	2.37	10,931	2.54	925	3.01	14,489	2.53		
Non-agency residential		_		_	13	_	3,227	10.28	3,240	10.24		
Total mortgage-backed securities	135	1.78	2,641	2.36	12,530	2.52	127,737	3.49	143,043	3.38		
U.S. Treasury and agency securities	739	1.15	29,186	1.52	31,517	2.44	19	2.53	61,461	1.98		
Non-U.S. securities	17,607	1.00	701	2.62	17	4.16	114	6.63	18,439	1.10		
Other taxable securities, substantially all asset-backed securities	701	3.66	1,944	3.55	646	3.14	84	5.91	3,375	3.55		
Total taxable securities	19,182	1.11	34,472	1.72	44,710	2.47	127,954	3.49	226,318	2.81		
Tax-exempt securities	786	2.55	7,353	2.43	6,207	2.37	3,014	1.97	17,360	2.34		
Total amortized cost of debt securities carried at fair value	\$ 19,968	1.16	\$ 41,825	1.85	\$ 50,917	2.46	\$ 130,968	3.46	\$ 243,678	2.78		
Amortized cost of HTM debt securities(2)	\$ 370	5.41	\$ 17	3.93	\$ 1,669	3.04	\$ 196,662	3.23	\$ 198,718	3.24		
	\$ 370	5.41	\$ 17	3.93	\$ 1,669	3.04	\$ 196,662	3.23	\$ 198,718	3.24		
Debt securities carried at fair value	\$ 370 \$ —	5.41	\$ 17 \$ 142	3.93	\$ 1,669 \$ 1,544	3.04	\$ 196,662 \$ 116,492	3.23	\$ 198,718 \$ 118,178	3.24		
Debt securities carried at fair value Mortgage-backed securities:		5.41		3.93		3.04		3.23		3.24		
Debt securities carried at fair value Mortgage-backed securities: Agency	\$ —	5.41	\$ 142	3.93	\$ 1,544	3.04	\$ 116,492	3.23	\$ 118,178	3.24		
Debt securities carried at fair value Mortgage-backed securities: Agency Agency-collateralized mortgage obligations	\$ — —	5.41	\$ 142 —	3.93	\$ 1,544 28	3.04	\$ 116,492 5,351	3.23	\$ 118,178 5,379	3.24		
Debt securities carried at fair value Mortgage-backed securities: Agency Agency-collateralized mortgage obligations Commercial	\$ — — 135	5.41	\$ 142 — 2,484	3.93	\$ 1,544 28 10,832	3.04	\$ 116,492 5,351 918	3.23	\$ 118,178 5,379 14,369	3.24		
Debt securities carried at fair value Mortgage-backed securities: Agency Agency-collateralized mortgage obligations Commercial Non-agency residential	\$ — — 135 —	5.41	\$ 142 — 2,484 —	3.93	\$ 1,544 28 10,832 27	3.04	\$ 116,492 5,351 918 3,626	3.23	\$ 118,178 5,379 14,369 3,653	3.24		
Debt securities carried at fair value Mortgage-backed securities: Agency Agency-collateralized mortgage obligations Commercial Non-agency residential Total mortgage-backed securities	\$ — ———————————————————————————————————	5.41	\$ 142 — 2,484 —— 2,626	3.93	\$ 1,544 28 10,832 27 12,431	3.04	\$ 116,492 5,351 918 3,626 126,387	3.23	\$ 118,178 5,379 14,369 3,653 141,579	3.24		
Debt securities carried at fair value Mortgage-backed securities: Agency Agency-collateralized mortgage obligations Commercial Non-agency residential Total mortgage-backed securities U.S. Treasury and agency securities	\$ — 135 — 135 738	5.41	\$ 142 —— 2,484 —— 2,626 28,583	3.93	\$ 1,544 28 10,832 27 12,431 31,684	3.04	\$ 116,492 5,351 918 3,626 126,387	3.23	\$ 118,178 5,379 14,369 3,653 141,579 61,024	3.24		
Debt securities carried at fair value Mortgage-backed securities: Agency Agency-collateralized mortgage obligations Commercial Non-agency residential Total mortgage-backed securities U.S. Treasury and agency securities Non-U.S. securities	\$ — 135 — 135 738 17,604	5.41	\$ 142 	3.93	\$ 1,544 28 10,832 27 12,431 31,684	3.04	\$ 116,492 5,351 918 3,626 126,387 19	3.23	\$ 118,178 5,379 14,369 3,653 141,579 61,024 18,451	3.24		
Debt securities carried at fair value Mortgage-backed securities: Agency Agency-collateralized mortgage obligations Commercial Non-agency residential Total mortgage-backed securities U.S. Treasury and agency securities Non-U.S. securities Other taxable securities, substantially all asset-backed securities	\$ — 135 — 135 738 17,604 703	5.41	\$ 142 — 2,484 — 2,626 28,583 712 1,967	3.93	\$ 1,544 28 10,832 27 12,431 31,684 17 681	3.04	\$ 116,492 5,351 918 3,626 126,387 19 118 85	3.23	\$ 118,178 5,379 14,369 3,653 141,579 61,024 18,451 3,436	3.24		
Debt securities carried at fair value Mortgage-backed securities: Agency Agency-collateralized mortgage obligations Commercial Non-agency residential Total mortgage-backed securities U.S. Treasury and agency securities Non-U.S. securities Other taxable securities, substantially all asset-backed securities Total taxable securities	\$ — 135 — 135 738 17,604 703	5.41	\$ 142 — 2,484 — 2,626 28,583 712 1,967 33,888	3.93	\$ 1,544 28 10,832 27 12,431 31,684 17 681	3.04	\$ 116,492 5,351 918 3,626 126,387 19 118 85	3.23	\$ 118,178 5,379 14,369 3,663 141,579 61,024 18,451 3,436 224,490	3.24		

⁽¹⁾ Represents the range of inputs/assumptions based upon the underlying collateral.
(2) The value of a variable below which the indicated percentile of observations will fall.

NOTE 5 Outstanding Loans and Leases

The following tables present total outstanding loans and leases and an aging analysis for the Consumer Real Estate, Credit Card and Other Consumer, and Commercial portfolio segments, by class of financing receivables, at March 31, 2019 and December 31, 2018.

	9 Days Past Due (1)	Days Past ie (1)	Days or More st Due (2)	Du	otal Past ue 30 Days or More	L	tal Current or ess Than 30 ays Past Due (3)	Loans Accou for Under the Value Optic	Fair	Ou	Total itstandings
(Dollars in millions)				N	March 31, 201	19					
Consumer real estate											
Core portfolio											
Residential mortgage	\$ 1,068	\$ 225	\$ 734	\$	2,027	\$	196,497			\$	198,524
Home equity	163	81	348		592		38,114				38,706
Non-core portfolio											
Residential mortgage	622	242	1,864		2,728		10,771				13,499
Home equity	126	58	270		454		7,081				7,535
Credit card and other consumer											
U.S. credit card	546	381	1,005		1,932		91,077				93,009
Direct/Indirect consumer (4)	267	76	33		376		89,172				89,548
Other consumer (5)	_	_	_		_		152				152
Total consumer	2,792	1,063	4,254		8,109		432,864				440,973
Consumer loans accounted for under the fair value option (6)								\$ 6	68		668
Total consumer loans and leases	2,792	1,063	4,254		8,109		432,864	6	68		441,641
Commercial											
U.S. commercial	515	180	356		1,051		299,348				300,399
Non-U.S. commercial	11	2	_		13		101,016				101,029
Commercial real estate (7)	15	_	10		25		61,190				61,215
Commercial lease financing	256	34	21		311		20,885				21,196
U.S. small business commercial	88	49	99		236		14,380				14,616
Total commercial	885	265	486		1,636		496,819				498,455
Commercial loans accounted for under the fair value option (6)	 							5,5	19		5,519
Total commercial loans and leases	885	265	486		1,636		496,819	5,5	19		503,974
Total loans and leases (8)	\$ 3,677	\$ 1,328	\$ 4,740	\$	9,745	\$	929,683	\$ 6,1	87	\$	945,615
Percentage of outstandings	0.39 %	0.14%	0.50 %		1.03%		98.32 %	0.	65%		100.00 %

⁽¹⁾ Consumer real estate loans 30-59 days past due includes fully-insured loans of\$575 million and nonperforming loans of\$188 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of\$221 million and nonperforming loans of

^{\$134} million.
(2) Consumer real estate includes fully-insured loans of \$1.6

⁽a) Consumer real estate includes \$1.8 billion and direct/indirect consumer includes\$51 million of nonperforming loans.

(b) Total outstandings includes auto and specialty lending loans and leases of \$49.9 billion, unsecured consumer lending loans of \$355 million, U.S. securities-based lending loans of \$35.8 billion, non-U.S. consumer loans of \$697 million.

(c) Substantialty all of other consumer is consumer overdrafts.

(d) Consumer loans of \$697 million.

(e) Consumer loans accounted for under the fair value option includes residential mortgage loans of \$15 million and home equity loans of \$353 million. Commercial loans accounted for under the fair value option includes U.S. commercial loans of \$2.7 billion. For additional information, see *Note 15 - Fair Value Measurements* and *Note 16 - Fair Value Option*.

(f) Total outstandings includes U.S. commercial real estate loans of \$56.8 billion and non-U.S. commercial real estate loans of \$56.8 billion and non-U.S. commercial real estate loans of \$60.0 billion.

(g) Total outstandings includes loans and leases pledged as collateral of \$25.4 billion. The Corporation also pledged \$164.4 billion of loans with no related outstanding borrowings to secure potential borrowing capacity with the Federal Reserve Bank and Federal Home Loan Bank (FHLB).

)-59 Days st Due (1)	9 Days Past Due (1)	00 Days or More ast Due (2)	Dι	otal Past ue 30 Days or More	L	Total Current or ess Than 30 Days ast Due (3)	Loans Accounted for Under the Fair alue Option	Tota	ıl Outstandings
(Dollars in millions)				De	cember 31, 2	018				
Consumer real estate										
Core portfolio										
Residential mortgage	\$ 1,188	\$ 249	\$ 793	\$	2,230	\$	191,465		\$	193,695
Home equity	200	85	387		672		39,338			40,010
Non-core portfolio										
Residential mortgage	757	309	2,201		3,267		11,595			14,862
Home equity	139	69	339		547		7,729			8,276
Credit card and other consumer										
U.S. credit card	577	418	994		1,989		96,349			98,338
Direct/Indirect consumer (4)	317	90	40		447		90,719			91,166
Other consumer (5)	_	_	_		-		202			202
Total consumer	3,178	1,220	4,754		9,152		437,397			446,549
Consumer loans accounted for under the fair value option (6)								\$ 682		682
Total consumer loans and leases	3,178	1,220	4,754		9,152		437,397	682		447,231
Commercial										
U.S. commercial	594	232	573		1,399		297,878			299,277
Non-U.S. commercial	1	49	_		50		98,726			98,776
Commercial real estate (7)	29	16	14		59		60,786			60,845
Commercial lease financing	124	114	37		275		22,259			22,534
U.S. small business commercial	83	54	96		233		14,332			14,565
Total commercial	831	465	720		2,016		493,981			495,997
Commercial loans accounted for under the fair value option (6)								3,667		3,667
Total commercial loans and leases	831	465	720		2,016		493,981	3,667		499,664
Total loans and leases (8)	\$ 4,009	\$ 1,685	\$ 5,474	\$	11,168	\$	931,378	\$ 4,349	\$	946,895
Percentage of outstandings	0.42%	0.18%	0.58 %		1.18 %		98.36 %	0.46 %		100.00 %

⁽¹⁾ Consumer real estate loans 30-59 days past due includes fully-insured loans of\$637 million and nonperforming loans of\$217 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of\$269 million and nonperforming loans of \$146 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of\$269 million and nonperforming loans of \$140 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of\$269 million and nonperforming loans of \$140 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of\$269 million and nonperforming loans of \$140 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of\$269 million and nonperforming loans of \$140 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of\$269 million and nonperforming loans of \$140 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of\$269 million and nonperforming loans of \$140 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of\$269 million and nonperforming loans of \$140 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of\$269 million and nonperforming loans of \$140 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of\$260 million and nonperforming loans of\$260 million and nonp

billion

The Corporation categorizes consumer real estate loans as core and non-core based on loan and customer characteristics such as origination date, product type, LTV, FICO score and delinquency status consistent with its current consumer and mortgage servicing strategy. Generally, loans that were originated after January 1, 2010, qualified under government-sponsored enterprise (GSE) underwriting guidelines, or otherwise met the Corporation's underwriting guidelines in place in 2015 are characterized as core loans. All other loans are generally characterized as non-core loans and represent runoff portfolios.

The Corporation has entered into long-term credit protection agreements with FNMA and FHLMC on loans totaling \$6.3 billion and \$6.1 billion at March 31, 2019 and December 31, 2018, providing full credit protection on residential mortgage loans that become severely delinquent. All of these loans are individually insured and therefore the Corporation does not record an allowance for credit losses related to these loans.

During the three months ended March 31, 2019 and 2018, the Corporation sold \$950 million and \$825 million of consumer real estate loans.

Nonperforming Loans and Leases

The Corporation classifies junior-lien home equity loans as nonperforming when the first-lien loan becomes 90 days past due even if the junior-lien loan is performing. At March 31, 2019 and December 31, 2018, \$197 million and \$221 million of such junior-lien home equity loans were included in nonperforming loans.

The Corporation classifies consumer real estate loans that have been discharged in Chapter 7 bankruptcy and not reaffirmed by the borrower as troubled debt restructurings (TDRs), irrespective of payment history or delinquency status, even if the repayment terms for the loan have not been otherwise modified. The Corporation continues to have a lien on the underlying collateral. At March 31, 2019, nonperforming loans discharged in Chapter 7 bankruptcy with no change in repayment terms were \$173 million of which \$94 million were current on their contractual payments, while \$65 million were 90 days or more past due. Of the contractually current nonperforming loans, 60 percent were discharged in Chapter 7 bankruptcy over 12 months ago, and 52 percent were discharged 24 months or more ago.

billion. (3) Consumer real estate includes \$1.8 billion and direct/indirect consumer includes \$53 million of nonperforming

loans. (4) Total outstandings includes auto and specialty lending loans and leases of \$50.1 billion, unsecured consumer lending loans of \$33.8 million, U.S. securities-based lending loans of \$37.0 billion, non-U.S. consumer loans of \$2.2 billion and other consumer loans

⁽⁵⁾ Substantially all of other consumer is consumer

Consumer loans accounted for under the fair value option includes residential mortgage loans o\$336 million and home equity loans of\$346 million. Commercial loans accounted for under the fair value option includes U.S. commercial loans o\$2.5 billion and non-U.S. commercial loans o\$1.1 billion. For additional information, see Note 15 – Fair Value Measurements and Note 16 – Fair Value Option.

(7) Total outstandings includes U.S. commercial real estate loans of \$36.6 billion and non-U.S. commercial real estate

⁽⁸⁾ Total outstandings includes loans and leases pledged as collateral of \$36.7 billion. The Corporation also pledged \$166.1 billion of loans with no related outstanding borrowings to secure potential borrowing capacity with the Federal Reserve Bank and

The table below presents the Corporation's nonperforming loans and leases including nonperforming TDRs, and loans accruing past du@0 days or more at March 31, 2019 and December 31, 2018. Nonperforming loans held-for-sale (LHFS) are excluded from nonperforming loans and leases as they are recorded at either fair value or the lower of cost or fair value. For more information on the criteria for classification as nonperforming, see *Note 1 – Summary of Significant Accounting Principles* to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K

Credit Quality

		Nonperfo and	rming Lo Leases	ans	Accruing Past Due 90 Days or More			
(Dollars in millions)	_	March 31 2019	De	cember 31 2018	March 31 2019			December 31 2018
Consumer real estate								
Core portfolio								
Residential mortgage (1)	\$	976	\$	1,010	\$	233	\$	274
Home equity		906		955		_		_
Non-core portfolio								
Residential mortgage (1)		797		883		1,360		1,610
Home equity		845		938		_		_
Credit card and other consumer								
U.S. credit card		n/a		n/a		1,005		994
Direct/Indirect consumer		54		56		31		38
Total consumer		3,578		3,842		2,629		2,916
Commercial								
U.S. commercial		870		794		46		197
Non-U.S. commercial		80		80		_		_
Commercial real estate		213		156		_		4
Commercial lease financing		52		18		13		29
U.S. small business commercial		57		54		91		84
Total commercial		1,272		1,102		150		314
Total loans and leases	\$	4,850	\$	4,944	\$	2,779	\$	3,230

⁽¹⁾ Residential mortgage loans in the core and non-core portfolios accruing past due0 days or more are fully-insured loans. AtMarch 31, 2019 and December 31, 2018, residential mortgage includes \$1.2 billion and \$1.4 billion of loans on which interest has been curtailed by the Federal Housing Administration (FHA) and therefore are no longer accruing interest, although principal is still insured, and \$391 million and \$498 million of loans on which interest is still accruing.

Credit Quality Indicators

The Corporation monitors credit quality within its Consumer Real Estate, Credit Card and Other Consumer, and Commercial portfolio segments based on primary credit quality indicators. For more information on the portfolio segments and their related credit quality indicators, see *Note 1 – Summary of Significant Accounting Principles* and *Note 5 – Outstanding Loans and Leases* to the

Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

The following tables present certain credit quality indicators for the Corporation's Consumer Real Estate, Credit Card and Other Consumer, and Commercial portfolio segments, by class of financing receivables, at March 31, 2019 and December 31, 2018.

Consumer Real Estate - Credit Quality Indicators (1)

	e Residential Mortgage	F	Non-core Residential Mortgage	Но	Core	Non	-core Home Equity	re Residential Mortgage	F	Non-core Residential Mortgage	Н	Core ome Equity	n-core Home Equity
(Dollars in millions)			March 3	31, 201	19					Decembe	er 31, 2	2018	
Refreshed LTV													
Less than or equal to 90 percent	\$ 178,424	\$	9,388	\$	38,003	\$	6,001	\$ 173,911	\$	10,272	\$	39,246	\$ 6,478
Greater than 90 percent but less than or equal to 100 percent	2,676		473		319		613	2,349		533		354	715
Greater than 100 percent	931		497		384		921	817		545		410	1,083
Fully-insured loans (2)	16,493		3,141					16,618		3,512			
Total consumer real estate	\$ 198,524	\$	13,499	\$	38,706	\$	7,535	\$ 193,695	\$	14,862	\$	40,010	\$ 8,276
Refreshed FICO score													
Less than 620	\$ 2,079	\$	1,635	\$	1,040	\$	1,351	\$ 2,125	\$	1,974	\$	1,064	\$ 1,503
Greater than or equal to 620 and less than 680	4,634		1,483		1,945		1,560	4,538		1,719		2,008	1,720
Greater than or equal to 680 and less than 740	23,770		2,777		6,695		1,978	23,841		3,042		7,008	2,188
Greater than or equal to 740	151,548		4,463		29,026		2,646	146,573		4,615		29,930	2,865
Fully-insured loans (2)	16,493		3,141					16,618		3,512			
Total consumer real estate	\$ 198,524	\$	13,499	\$	38,706	\$	7,535	\$ 193,695	\$	14,862	\$	40,010	\$ 8,276

⁽¹⁾ Excludes \$668 million and \$682 million of loans accounted for under the fair value option atMarch 31, 2019 and December 31,

<sup>2018.

(2)</sup> Credit quality indicators are not reported for fully-insured loans as principal repayment is insured.

Credit Card and Other Consumer - Credit Quality Indicators

	 .S. Credit Card	Direct/Indirect Consumer	Other Consum	er	U.S. Credit Card		Direct/Indirect Consumer	Other Consumer
(Dollars in millions)		March 31, 2019				D	ecember 31, 2018	
Refreshed FICO score								
Less than 620	\$ 4,936	\$ 1,630		:	5,016	\$	1,719	
Greater than or equal to 620 and less than 680	11,919	2,945			12,415		3,124	
Greater than or equal to 680 and less than 740	34,085	8,634			35,781		8,921	
Greater than or equal to 740	42,069	37,038			45,126		36,709	
Other internal credit metrics (1, 2)		39,301	\$ 1	52			40,693	\$ 202
Total credit card and other consumer	\$ 93,009	\$ 89,548	\$ 1	52	98,338	\$	91,166	\$ 202

⁽¹⁾ Other internal credit metrics may include delinquency status, geography or other

Commercial - Credit Quality Indicators (1)

	U.S. nmercial	Non-U.S. Commercial		ommercial eal Estate	Commercial Lease Financing	c	U.S. Small Business commercial (2)
(Dollars in millions)			Ma	rch 31, 2019			
Risk ratings							
Pass rated	\$ 292,401	\$ 100,015	\$	60,257	\$ 20,797	\$	249
Reservable criticized	7,998	1,014		958	399		27
Refreshed FICO score (3)							
Less than 620							277
Greater than or equal to 620 and less than 680							695
Greater than or equal to 680 and less than 740							2,081
Greater than or equal to 740							4,382
Other internal credit metrics (3, 4)							6,905
Total commercial	\$ 300,399	\$ 101,029	\$	61,215	\$ 21,196	\$	14,616
			Dece	mber 31, 2018			
Risk ratings							
Pass rated	\$ 291,918	\$ 97,916	\$	59,910	\$ 22,168	\$	389
Reservable criticized	7,359	860		935	366		29
Refreshed FICO score (3)							
Less than 620							264
Greater than or equal to 620 and less than 680							684
Greater than or equal to 680 and less than 740							2,072
Greater than or equal to 740							4,254
Other internal credit metrics (3, 4)							6,873
Total commercial	\$ 299,277	\$ 98,776	\$	60,845	\$ 22,534	\$	14,565

⁽¹⁾ Excludes \$5.5 billion and \$3.7 billion of loans accounted for under the fair value option atMarch 31, 2019 and December 31,

Impaired Loans and Troubled Debt Restructurings

A loan is considered impaired when, based on current information, it is probable that the Corporation will be unable to collect all amounts due from the borrower in accordance with the contractual terms of the loan. For additional information, see Note 1 - Summary of Significant Accounting Principles and Note 5 - Outstanding Loans and Leases to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

Consumer Real Estate

Impaired consumer real estate loans within the Consumer Real Estate portfolio segment consist entirely of TDRs. Most modifications of consumer real estate loans meet the definition of TDRs when a binding offer is extended to a borrower. For more information on impaired consumer real estate loans, see Note 5 - Outstanding Loans and Leases to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

Consumer real estate loans that have been discharged in Chapter 7 bankruptcy with no change in repayment terms and not reaffirmed by the borrower of \$813 million were included in TDRs at March 31, 2019, of which \$173 million were classified as nonperforming and \$326 million were loans fully insured by the FHA. For more information on loans discharged in Chapter 7 bankruptcy, see Nonperforming Loans and Leases in this Note.

At March 31, 2019 and December 31, 2018, remaining commitments to lend additional funds to debtors whose terms have been modified in a consumer real estate TDR were not significant. Consumer real estate foreclosed properties totaled \$236 million and \$244 million at March 31, 2019 and December 31, 2018. The carrying value of consumer real estate loans, including fully-insured loans, for which formal foreclosure proceedings were in process at March 31, 2019 was \$2.2 billion. During the three months ended March 31, 2019 and 2018 the Corporation reclassified \$164 million and \$168 million of consumer real estate loans to foreclosed properties or, for properties acquired upon foreclosure of certain government-

factors.
(2) Direct/indirect consumer includes \$38.6 billion and \$39.9 billion of securities-based lending which is overcollateralized and therefore has minimal credit risk atMarch 31, 2019 and December 31,

<sup>2018.

(2)</sup> At March 31, 2019 and December 31, 2018, U.S. small business commercial includes \$726 million and \$731 million of criticized business card and small business loans which are evaluated using refreshed FICO scores or internal credit metrics, including delinquency status, rather than risk ratings. At both March 31, 2019 and December 31, 2018, 99 percent of the balances where internal credit metrics are used was current or less than 30 days past due.

(3) Refreshed FICO score and other internal credit metrics are applicable only to the U.S. small business commercial

portfolio.

(4) Other internal credit metrics may include delinquency status, application scores, geography or other

guaranteed loans (principally FHA-insured loans), to other assets. The reclassifications represent non-cash investing activities and, accordingly, are not reflected in the Consolidated Statement of Cash Flows.

The following table provides the unpaid principal balance, carrying value and related allowance at March 31, 2019 and December 31, 2018, and the average carrying value and interest

income recognized for the three months ended March 31, 2019 and 2018 for impaired loans in the Corporation's Consumer Real Estate portfolio segment. Certain impaired consumer real estate loans do not have a related allowance as the current valuation of these impaired loans exceeded the carrying value, which is net of previously recorded charge-offs.

Impaired Loans - Consumer Real Estate

	Prin	paid ncipal ance	C	Carrying Value	ı	Related Allowance	 Unpaid Principal Balance		Carrying Value	Related Allowance
(Dollars in millions)			Mar	ch 31, 2019				Dec	cember 31, 2018	
With no recorded allowance										
Residential mortgage	\$	5,087	\$	4,033	\$	_	\$ 5,396	\$	4,268	\$ _
Home equity		2,892		1,582		_	2,948		1,599	_
With an allowance recorded										
Residential mortgage	\$	1,777	\$	1,739	\$	95	\$ 1,977	\$	1,929	\$ 114
Home equity		750		704		114	812		760	144
Total										
Residential mortgage	\$	6,864	\$	5,772	\$	95	\$ 7,373	\$	6,197	\$ 114
Home equity		3,642		2,286		114	3,760		2,359	144

	Average Carrying Value	Interest Income Recognized (1)			Average Carrying Value		nterest ncome ognized (1)
		TI	ree Months	Ended	March 31		
	2				2	2018	
			·				· · · · · · · · · · · · · · · · · · ·
\$	4,171	\$	45	\$	6,462	\$	65
	1,593		25		1,961		27
\$	1,848	\$	18	\$	2,705	\$	25
	737		6		892		6
\$	6,019	\$	63	\$	9,167	\$	90
	2,330		31		2,853		33

⁽¹⁾ Interest income recognized includes interest accrued and collected on the outstanding balances of accruing impaired loans as well as interest cash collections on nonaccruing impaired loans for which the principal is considered collectible.

The table below presents the March 31, 2019 and 2018 unpaid principal balance, carrying value, and average pre- and post-modification interest rates of consumer real estate loans that were modified in TDRs during the three months ended March 31, 2019 and 2018 The following Consumer Real Estate portfolio segment tables include loans that were initially classified as TDRs during the period and also loans that had previously been classified as TDRs and were modified again during the period.

Consumer Real Estate - TDRs Entered into During the Three Months Ended March 31, 2019 and 2018

	_	Unpaid F Bala			Carrying Value	Pre-Modification Interest Rate	Post-Modification Interest Rate (1)
(Dollars in millions)					March	31, 2019	
Residential mortgage	•	\$	135 \$ 112 4.19%		4.27 %		
Home equity		63			48	5.23	4.86
Total		\$	198	\$	160	4.52	4.46
	_				March:	31, 2018	
Residential mortgage	5	\$	407	\$	358	4.39 %	4.36 %
Home equity			207		161	4.37	4.37
Total	5	\$	614	\$	519	4.39	4.36

⁽¹⁾ The post-modification interest rate reflects the interest rate applicable only to permanently completed modifications, which exclude loans that are in a trial modification period.

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The table below presents the March 31, 2019 and 2018 carrying value for consumer real estate loans that were modified in a TDR during thethree months ended March 31, 2019 and 2018, by type of modification.

Consumer Real Estate - Modification Programs

TDRs Entered into During	

	Three I	Months	Ended Ma	arch 31
ollars in millions)	2019			2018
odifications under government programs (1)	\$	3	\$	13
odifications under proprietary programs (1)		26		200
pans discharged in Chapter 7 bankruptcy (2)		28		64
rial modifications		103		242
Total modifications	\$	160	\$	519

⁽¹⁾ Includes other modifications such as term or payment extensions and repayment plans. During the three months ended March 31, 2018, this includes 168 million of modifications that met the definition of a TDR related to the 2017 hurricanes. These modifications had been written down to their net realizable value less costs to sell or were fully insured as of March 31, 2018.
(2) Includes loans discharged in Chapter 7 bankruptcy with no change in repayment terms that are classified as TDRs.

The table below presents the carrying value of consumer real estate loans that entered into payment default during thethree months ended March 31, 2019 and 2018 that were modified in a TDR during the 12 months preceding payment default. A payment default for consumer real estate TDRs is recognized when a borrower has missed three monthly payments (not necessarily consecutively) since modification.

Consumer Real Estate - TDRs Entering Payment Default that were Modified During the Preceding 12 Months

	 Three Months	Ended Ma	rch 31
(Dollars in millions)	 2019		2018
Modifications under government programs	\$ 7	\$	13
Modifications under proprietary programs	29		31
Loans discharged in Chapter 7 bankruptcy (1)	9		23
Trial modifications (2)	 16		45
Total modifications	\$ 61	\$	112

⁽¹⁾ Includes loans discharged in Chapter 7 bankruptcy with no change in repayment terms that are classified as

Credit Card and Other Consumer

Impaired loans within the Credit Card and Other Consumer portfolio segment consist entirely of loans that have been modified in TDRs. The Corporation seeks to assist customers that are experiencing financial difficulty by modifying loans while ensuring compliance with federal and local laws and guidelines. Credit card and other consumer loan modifications generally involve reducing the interest rate on the account, placing the customer on a fixed payment plan not exceeding 60 months and canceling the customer's available line of credit, all of which are considered TDRs. The Corporation makes loan modifications directly with borrowers for debt held only by the Corporation (internal programs).

Additionally, the Corporation makes loan modifications for borrowers working with third-party renegotiation agencies that provide solutions to customers' entire unsecured debt structures (external programs). The Corporation classifies other secured consumer loans that have been discharged in Chapter 7 bankruptcy as TDRs which are written down to collateral value and placed on nonaccrual status no later than the time of discharge.

The table below provides the unpaid principal balance, carrying value and related allowance at March 31, 2019 and December 31, 2018 and the average carrying value for the three months ended March 31, 2019 and 2018 for TDRs within the Credit Card and Other Consumer portfolio segment.

Impaired Loans - Credit Card and Other Consumer

	Unpaid Principal			Related		/alue (2)							
	Balance		Value (1)	Allowance	Balance	Value (1)			Allowance		March 31		
(Dollars in millions)			March 31, 2019			De	ecember 31, 2018				2019		2018
With no recorded allowance													
Direct/Indirect consumer With an allowance recorded	\$ 74	\$	34	\$ _	\$ 72	\$	33	\$	_	\$	34	\$	27
U.S. credit card	\$ 554	\$	566	\$ 155	\$ 522	\$	533	\$	154	\$	547	\$	465
Direct/Indirect consumer	_		_	_	_		_		_		_		1
Total													
U.S. credit card	\$ 554	\$	566	\$ 155	\$ 522	\$	533	\$	154	\$	547	\$	465
Direct/Indirect consumer	74		34	_	72		33		_		34		28

⁽¹⁾ Includes accrued interest and

TDRs.
(2) Includes trial modification offers to which the customer did not respond.

fees.
(2) The related interest income recognized, which included interest accrued and collected on the outstanding balances of accruing impaired loans as well as interest cash collections on nonaccruing impaired loans for which the principal was considered collectible, was not significant for the three months ended March 31, 2019 and 2018

The table below provides information on the Corporation's primary modification programs for the Credit Card and Other Consumer TDR portfolio aMarch 31, 2019 and December 31, 2018.

Credit Card and Other Consumer - TDRs by Program Type

		U.S. (Credit Ca	ard	Direct/Indi	rect Co	nsumer		Total TDRs	s by Program Type			
(Dollars in millions)	М	arch 31 2019	ſ	December 31 2018	March 31 2019		December 31 2018	'	March 31 2019		December 31 2018		
Internal programs	\$	285	\$	259	\$ _	\$	_	\$	285	\$	259		
External programs		281		273	_		_		281		273		
Other		_		1	34		33		34		34		
Total	\$	566	\$	533	\$ 34	\$	33	\$	600	\$	566		
Percent of balances current or less than 30 days past due		85%		85%	85%		81%		85%		85%		

The table below provides information on the Corporation's Credit Card and Other Consumer TDR portfolio including the March 31, 2019 and 2018 unpaid principal balance, carrying value, and average pre- and post-modification interest rates of loans that were modified in TDRs during the three months ended March 31, 2019 and 2018

Credit Card and Other Consumer - TDRs Entered into During the Three Months Ended March 31, 2019 and 2018

		l Principal Ilance	Carrying Value (1)	Pre-Modification Interest Rate	Post-Modification Interest Rate
(Dollars in millions)			March	31, 2019	
U.S. credit card	\$	98	\$ 105	19.86 %	5.21 %
Direct/Indirect consumer		18	10	4.96	4.96
Total	\$	116	\$ 115	18.56	5.19
			March :	31, 2018	
U.S. credit card	\$	74	\$ 80	18.83 %	5.20 %
Direct/Indirect consumer		17	10	4.98	4.67
Total	\$	91	\$ 90	17.24	5.14

⁽¹⁾ Includes accrued interest and

Credit card and other consumer loans are deemed to be in payment default during the quarter in which a borrower misses the second of two consecutive payments. Payment defaults are one of the factors considered when projecting future cash flows in the calculation of the allowance for loan and lease losses for impaired credit card and other consumer loans. Based on historical experience, the Corporation estimates that 14 percent of new U.S. credit card TDRs and15 percent of new direct/indirect consumer TDRs may be in payment default within 12 months after modification.

Commercial Loans

Impaired commercial loans include nonperforming loans and leases and TDRs (both performing and nonperforming). For more information on impaired commercial loans, see *Note 5 – Outstanding Loans and Leases* to the Consolidated Financial

Statements of the Corporation's 2018 Annual Report on Form 10-K.

At March 31, 2019 and December 31, 2019, remaining commitments to lend additional funds to debtors whose terms have been modified in a commercial loan TDR were \$347 million and \$297 million.

The table below provides information on impaired loans in the Commercial loan portfolio segment including the unpaid principal balance, carrying value and related allowance at March 31, 2019 and December 31, 2018, and the average carrying value for the three months ended March 31, 2019 and 2018 Certain impaired commercial loans do not have a related allowance because the valuation of these impaired loans exceeded the carrying value, which is net of previously recorded charge-offs.

Impaired Loans - Commercial

	Unpaid Principal		Carrying	Related		Unpaid Principal		Carrying	Related		Average Car	rrying \	/alue (1)
	Balance		Value	Allowance		Balance		Value	Allowance	_	Three Months	Ended	March 31
(Dollars in millions)		Ma	arch 31, 2019					ember 31, 2018			2019		2018
With no recorded allowance													
U.S. commercial	\$ 761	\$	750	\$ _	\$	638	\$	616	\$ _	\$	683	\$	672
Non-U.S. commercial	93		93	_		93		93	_		93		62
Commercial real estate	226		226	_		_		_	_		113		69
Commercial lease financing	_		_	_		_		_	_		_		6
With an allowance recorded													
U.S. commercial	\$ 1,466	\$	1,245	\$ 122	\$	1,437	\$	1,270	\$ 121	\$	1,258	\$	1,105
Non-U.S. commercial	254		240	37		155		149	30		195		445
Commercial real estate	156		79	6		247		162	16		121		36
Commercial lease financing	90		87	13		71		71	_		79		11
U.S. small business commercial (2)	85		76	29		83		72	29		74		75
Total													
U.S. commercial	\$ 2,227	\$	1,995	\$ 122	\$	2,075	\$	1,886	\$ 121	\$	1,941	\$	1,777
Non-U.S. commercial	347		333	37		248		242	30		288		507
Commercial real estate	382		305	6		247		162	16		234		105
Commercial lease financing	90		87	13		71		71	_		79		17
U.S. small business commercial (2)	85		76	29		83		72	29		74		75

⁽¹⁾ The related interest income recognized, which included interest accrued and collected on the outstanding balances of accruing impaired loans as well as interest cash collections on nonaccruing impaired loans for which the principal was considered collectible, was not significant for the three months ended March 31, 2019 and 2018.

(2) Includes U.S. small business commercial renegotiated TDR loans and related allowance.

The table below presents the March 31, 2019 and 2018 unpaid principal balance and carrying value of commercial loans that were modified as TDRs during the three months ended March 31, 2019 and 2018 The table below includes loans that were initially classified as TDRs during the period and also loans that had previously been classified as TDRs and were modified again during the period.

Commercial - TDRs Entered into During the Three Months Ended March 31, 2019 and 2018

	d Principal alance	Carı	ying Value
(Dollars in millions)	 March	31, 2019	
U.S. commercial	\$ 480	\$	459
Non-U.S. commercial	103		103
Commercial real estate	198		198
Commercial lease financing	3		3
U.S. small business commercial (1)	4		4
Total	\$ 788	\$	767
	March	31, 2018	
U.S. commercial	\$ 618	\$	550
Non-U.S. commercial	331		331
Commercial lease financing	2		1
U.S. small business commercial (1)	3		3
Total	\$ 954	\$	885

⁽¹⁾ U.S. small business commercial TDRs are comprised of renegotiated small business card

A commercial TDR is generally deemed to be in payment default when the loan is 90 days or more past due, including delinquencies that were not resolved as part of the modification. U.S. small business commercial TDRs are deemed to be in payment default during the quarter in which a borrower misses the second of two consecutive payments. Payment defaults are one of the factors considered when projecting future cash flows, along with observable market prices or fair value of collateral when measuring the allowance for loan and lease losses. TDRs that were in payment default had a carrying value of \$116 million and \$139 million for U.S. commercial, \$3 million and \$18 million for commercial real estate and \$3 million and \$4 million for commercial lease financing at March 31, 2019 and 2018.

Loans Held-for-sale

The Corporation had LHFS of \$6.3 billion and \$10.4 billion at March 31, 2019 and December 31, 2018. For the three months ended March 31, 2019 and 2018 cash and non-cash proceeds from sales and paydowns of loans originally classified as LHFS were \$7.9 billion and \$9.8 billion, and cash used for originations and purchases of LHFS totaled \$3.6 billion and \$5.7 billion.

NOTE 6 Allowance for Credit Losses

The table below summarizes the changes in the allowance for credit losses by portfolio segment for thethree months ended March 31, 2019 and 2018

	 Consumer Real Estate	Credi	t Card and Other Consumer		Commercial	Total
pans and leases charged off ecoveries of loans and leases previously charged off Net charge-offs rovision for loan and lease losses ther (1) Allowance for loan and lease losses, March 31 erve for unfunded lending commitments, January 1 rovision for unfunded lending commitments Reserve for unfunded lending commitments, March 31 Allowance for credit losses, March 31 vance for loan and lease losses, January 1 pans and leases charged off ecoveries of loans and leases previously charged off Net charge-offs rovision for loan and lease losses			Three Months En	ded M	arch 31, 2019	
Allowance for loan and lease losses, January 1	\$ 928	\$	3,874	\$	4,799	\$ 9,601
Loans and leases charged off	(103)		(1,057)		(177)	(1,337)
Recoveries of loans and leases previously charged off	108		217		21	346
Net charge-offs	5		(840)		(156)	(991)
Provision for loan and lease losses	(70)		900		178	1,008
Other (1)	(41)		_		_	(41)
Allowance for loan and lease losses, March 31	822		3,934		4,821	9,577
Reserve for unfunded lending commitments, January 1	_		_		797	797
Provision for unfunded lending commitments			_		5	5
Reserve for unfunded lending commitments, March 31	_		_		802	802
Allowance for credit losses, March 31	\$ 822	\$	3,934	\$	5,623	\$ 10,379
			Three Months End	ded Ma	arch 31, 2018	
Allowance for loan and lease losses, January 1	\$ 1,720	\$	3,663	\$	5,010	\$ 10,393
Loans and leases charged off	(174)		(1,006)		(116)	(1,296)
Recoveries of loans and leases previously charged off	147		203		35	385
Net charge-offs	(27)		(803)		(81)	(911)
Provision for loan and lease losses	(128)		876		81	829
Other (1)	(35)		(16)		_	(51)
Allowance for loan and lease losses, March 31	1,530		3,720		5,010	10,260
Reserve for unfunded lending commitments, January 1	_		_		777	777
Provision for unfunded lending commitments	_		_		5	5
Reserve for unfunded lending commitments, March 31			_		782	782
Allowance for credit losses, March 31	\$ 1,530	\$	3,720	\$	5,792	\$ 11,042

⁽¹⁾ Primarily represents write-offs of purchased credit-impaired loans, the net impact of portfolio sales, consolidations and deconsolidations, foreign currency translation adjustments, transfers to held for sale, and certain other reclassifications.

The table below presents the allowance and the carrying value of outstanding loans and leases by portfolio segment atMarch 31, 2019 and December 31, 2018.

		Consumer Real Estate	Cre	dit Card and Other Consumer	24 004	Commercial		Total
(Dollars in millions)	_			March :	31, 201	19		
Impaired loans and troubled debt restructurings (1)	_						_	
Allowance for loan and lease losses	\$	209	\$	155	\$	207	\$	571
Carrying value (2)		8,058		600		2,796		11,454
Allowance as a percentage of carrying value		2.59 %		25.83 %		7.40 %		4.99 %
Loans collectively evaluated for impairment								
Allowance for loan and lease losses	\$	613	\$	3,779	\$	4,614	\$	9,006
Carrying value (2, 3)		250,206		182,109		495,659		927,974
Allowance as a percentage of carrying value (3)		0.24 %		2.08 %		0.93 %		0.97 %
Total								
Allowance for loan and lease losses	\$	822	\$	3,934	\$	4,821	\$	9,577
Carrying value (2, 3)		258,264		182,709		498,455		939,428
Allowance as a percentage of carrying value (3)		0.32 %		2.15%		0.97 %		1.02 %
				Decembe	r 31, 2	018		
Impaired loans and troubled debt restructurings (1)								
Allowance for loan and lease losses	\$	258	\$	154	\$	196	\$	608
Carrying value (2)		8,556		566		2,433		11,555
Allowance as a percentage of carrying value		3.02 %		27.21 %		8.06 %		5.26 %
Loans collectively evaluated for impairment								
Allowance for loan and lease losses	\$	670	\$	3,720	\$	4,603	\$	8,993
Carrying value (2, 3)		248,287		189,140		493,564		930,991
Allowance as a percentage of carrying value (3)		0.27 %		1.97 %		0.93 %		0.97 %
Total								
Allowance for loan and lease losses	\$	928	\$	3,874	\$	4,799	\$	9,601
Carrying value (2, 3)		256,843		189,706		495,997		942,546
Allowance as a percentage of carrying value (3)		0.36 %		2.04 %		0.97 %		1.02 %
		2.30 /0		5.70		2.3. 70		

⁽¹⁾ Impaired loans include nonperforming commercial loans and leases, as well as all TDRs, including both commercial and consumer TDRs. Impaired loans exclude nonperforming consumer loans unless they are TDRs, and all consumer and commercial loans accounted for under the fair value option.

(2) Amounts are presented gross of the allowance for loan and lease losses.

(3) Outstanding loan and lease balances and ratios do not include loans accounted for under the fair value option of 6.2 billion and \$4.3 billion at March 31, 2019 and December 31, 2018.

NOTE 7 Securitizations and Other Variable Interest

The Corporation utilizes VIEs in the ordinary course of business to support its own and its customers' financing and investing needs. The tables in this Note present the assets, liabilities and maximum loss exposure of consolidated and unconsolidated VIEs at March 31, 2019 and December 31, 2018 in situations where the Corporation has continuing involvement with transferred assets or if the Corporation otherwise has a variable interest in the VIE. For more information on the Corporation's use of VIEs and related maximum loss exposure, see Note 1 -Summary of Significant Accounting Principles and Note 7 - Securitizations and Other Variable Interest Entities to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

The Corporation invests in ABS issued by third-party VIEs with which it has no other form of involvement and enters into certain commercial lending arrangements that may also incorporate the use of VIEs, for example to hold collateral. These securities and loans are included in Note 4 - Securities or Note 5 - Outstanding Loans and Leases.

The Corporation did not provide financial support to consolidated or unconsolidated VIEs during the three months ended March 31, 2019 or the year ended December 31, 2018 that it was not previously contractually required to provide, nor does it intend to do so.

The Corporation had liquidity commitments, including written put options and collateral value guarantees, with certain unconsolidated VIEs of \$220 million and \$218 million at March 31, 2019 and December 31, 2018.

First-lien Mortgage Securitizations

As part of its mortgage banking activities, the Corporation securitizes a portion of the first-lien residential mortgage loans it originates or purchases from third parties. Except as described in Note 11 - Commitments and Contingencies, the Corporation does not provide guarantees or recourse to the securitization trusts other than standard representations and warranties.

The table below summarizes select information related to first-lien mortgage securitizations for the three months ended March 31, 2019 and 2018

First-lien Mortgage Securitizations

	Residential Mo	rtgage	- Agency		Commerc	cial Mortgage			
_			Three Months I	Ended	March 31				
	2019		2018		2019		2018		
\$	1,096	\$	1,655	\$	987	\$	538		
	7		18		17		18		
	244		501		_		_		

(1) The Corporation transfers residential mortgage loans to securitizations sponsored primarily by the GSEs or Government National Mortgage Association (GNMA) in the normal course of business and primarily receives RMBS in exchange. Substantially all of these securities are classified as Level 2 within the fair value hierarchy and are sold shortly after receipt.

(2) A majority of the first-lien residential mortgage loans securitized are initially classified as LHFS and accounted for under the fair value option. Gains recognized on these LHFS prior to securitization, which totales million and \$24 million, net of hedges, during the three months ended March 31, 2019 and 2018, are not included in the table above.

(3) The Corporation may have the option to repurchase delinquent loans out of securitization trusts, which reduces the amount of servicing advances it is required to make. The Corporation may also repurchase loans from securitization trusts to perform modifications. Repurchased loans include FHA-insured mortgages collateralizing GNMA securities.

The Corporation recognizes consumer MSRs from the sale or securitization of consumer real estate loans. The unpaid principal balance of loans serviced for investors, including residential mortgage and home equity loans, totaled \$219.5 billion and \$259.7 billion at March 31, 2019 and 2018. Servicing fee and ancillary fee income on serviced loans was \$148 million and \$197 million during the three months ended March 31, 2019 and 2018. Servicing advances on serviced loans, including loans serviced for others and loans held for investment, were \$3.0 billion and \$3.3

billion at March 31, 2019 and December 31, 2018. For more information on MSRs, see Note 15 - Fair Value Measurements.

During the three months ended March 31, 2019, the Corporation deconsolidated agency residential mortgage securitization trusts with total assets of \$705 million. There were no significant deconsolidations during the three months ended March

The following table summarizes select information related to first-lien mortgage securitization trusts in which the Corporation held a variable interest at March 31, 2019 and December 31, 2018.

First-lien Mortgage VIEs

	_							Residentia	II WO	tgage										
										Non-	agen	су								
		Ag	ency			P	rime	•		Sui	bprin	ne			Alt-A			Commerc	ial Mo	rtgage
(Dollars in millions)		March 31 2019	D	ecember 31 2018		March 31 2019		December 31 2018		March 31 2019	ı	December 31 2018		March 31 2019	ı	December 31 2018		March 31 2019	D	ecember 31 2018
Unconsolidated VIEs																				
Maximum loss exposure (1)	\$	15,689	\$	16,011	\$	420	\$	448	\$	1,880	\$	1,897	\$	217	\$	217	\$	762	\$	767
On-balance sheet assets																				
Senior securities:																				
Trading account assets	\$	467	\$	460	\$	26	\$	30	\$	35	\$	36	\$	91	\$	90	\$	64	\$	97
Debt securities carried at fair value		9,194		9,381		234		246		1,454		1,470		124		125		_		_
Held-to-maturity securities		6,028		6,170		_		_		_		_		_		_		560		528
All other assets		_		_		3		3		38		37		2		2		37		40
Total retained positions	\$	15,689	\$	16,011	\$	263	\$	279	\$	1,527	\$	1,543	\$	217	\$	217	\$	661	\$	665
Principal balance outstanding (2)	\$	182,968	\$	187,512	\$	8,285	\$	8,954	\$	8,565	\$	8,719	\$	22,661	\$	23,467	\$	44,621	\$	43,593
Consolidated VIEs																				
Maximum loss exposure (1)	\$	12,316	\$	13,296	\$	7	\$	7	\$	_	\$	_	\$	_	¢	_	\$	_	•	76
On-balance sheet assets	•	12,010	Ψ	10,230		<u> </u>	Ψ	<u> </u>	•		Ψ				Ψ					
Trading account assets	\$	716	e	1,318	\$	143	¢	150	\$	_	\$		s	_	\$		s	_	s	76
-	Þ		Þ		ð		Φ		ą	_	φ	_	Þ	_	φ	_	Þ	_	ş	76
Loans and leases, net		11,467		11,858		_		_		_		_		_		_		_		_
All other assets		146		143																
Total assets	\$	12,329	\$	13,319	\$	143	\$	150	\$	_	\$	_	\$	_	\$	_	\$	_	\$	76
Total liabilities	\$	16	\$	26	\$	136	\$	143	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_

Residential Mortgage

(1) Maximum loss exposure includes obligations under loss-sharing reinsurance and other arrangements for non-agency residential mortgage and commercial mortgage securitizations, but excludes the reserve for representations and warranties obligations and corporate guarantees and also excludes servicing advances and other servicing rights and obligations. For additional information, see *Note 11 – Commitments and Contingencies* and *Note 15 – Fair Value Measurements*(2) Principal balance outstanding includes loans where the Corporation was the transferor to securitization VIEs with which it has continuing involvement, which may include servicing the

Other Asset-backed Securitizations

The table below summarizes select information related to home equity, credit card and other asset-backed VIEs in which the Corporation held a variable interest aMarch 31, 2019 and December 31, 2018.

Home Equity Loan, Credit Card and Other Asset-backed VIEs

		Home	Equity	/ (1)		Credit	Carc	1 (2, 3)		Resecuriti	izatio	on Trusts		Municipal	Bono	d Trusts
(Dollars in millions)		March 31 2019	D	ecember 31 2018		March 31 2019		December 31 2018		March 31 2019		December 31 2018		March 31 2019	D	ecember 31 2018
Unconsolidated VIEs	_															
Maximum loss exposure	\$	855	\$	908	\$	_	\$	_	\$	7,755	\$	7,647	\$	2,296	\$	2,150
On-balance sheet assets																
Senior securities (4):																
Trading account assets	\$	_	\$	_	\$	_	\$	_	\$	1,700	\$	1,419	\$	_	\$	26
Debt securities carried at fair value		26		27		_		_		1,297		1,337		_		_
Held-to-maturity securities		_		_		_		_		4,758		4,891		_		_
Total retained positions	\$	26	\$	27	\$	_	\$	_	\$	7,755	\$	7,647	\$	_	\$	26
Total assets of VIEs (5)	\$	1,710	\$	1,813	\$	_	\$	_	\$	17,440	\$	16,949	\$	2,947	\$	2,829
Consolidated VIEs Maximum loss exposure	\$	79	\$	85	\$	19,452	\$	18,800	\$	49	\$	128	\$	2,380	\$	1,540
On-balance sheet assets		79	J.	65	•	19,432	ą	10,000	•	49	Ą	120	•	2,360	φ	1,540
Trading account assets	\$	_	s	_	s	_	\$	_	s	69	s	366	\$	2,391	s	1,553
Loans and leases	•	123	•	133	•	28.062	•	29.906	•	_	Ť	_	•	_	•	
Allowance for loan and lease losses		(4)	(5)		(874)		(901)		_		_		_		_
All other assets		4		4		131		136		_		_		1		1
Total assets	\$	123	\$	132	\$	27,319	\$	29,141	\$	69	\$	366	\$	2,392	\$	1,554
On-balance sheet liabilities																
Short-term borrowings	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	1,547	\$	742
Long-term debt		51		55		7,852		10,321		20		238		12		12
All other liabilities		_		_		15		20		_		_				_
Total liabilities	\$	51	\$	55	\$	7,867	\$	10,341	\$	20	\$	238	\$	1,559	\$	754

(1) For unconsolidated home equity loan VIEs, the maximum loss exposure includes outstanding trust certificates issued by trusts in rapid amortization, net of recorded reserves. For both consolidated and unconsolidated home equity loan VIEs, the maximum loss exposure excludes the reserve for representations and warranties obligations and corporate guarantees. For additional information, see Note 11 – Commitments and Contingencies

(2) At March 31, 2019 and December 31, 2018, loans and leases in the consolidated credit card trust included\$12.1 billion and \$11.0 billion of seller's

interest.

(3) At March 31, 2019 and December 31, 2018, all other assets in the consolidated credit card trust included certain short-term investments and unbilled accrued interest and fees.

(4) The retained senior securities were valued using quoted market prices or observable market inputs (Level 2 of the fair value

hierarchy).

(5) Total assets of VIEs includes loans the Corporation transferred with which it has continuing involvement, which may include servicing the

Home Equity Loans

The Corporation retains interests, primarily senior securities, in home equity securitization trusts to which it transferred home equity loans. In addition, the Corporation may be obligated to provide subordinate funding to the trusts during a rapid amortization event. This obligation is included in the maximum loss exposure in the table above. The charges that will ultimately be recorded as a result of the rapid amortization events depend on the undrawn portion of the home equity lines of credit, performance of the loans, the amount of subsequent draws and the timing of related cash flows.

Credit Card Securitizations

The Corporation securitizes originated and purchased credit card loans. The Corporation's continuing involvement with the securitization trust includes servicing the receivables, retaining an undivided interest (seller's interest) in the receivables, and holding certain retained interests including subordinate interests in accrued interest and fees on the securitized receivables and cash reserve accounts.

During the three months ended March 31, 2018, there were \$1.6 billion of new senior debt securities issued to third-party investors from the credit card securitization trust. None were issued in the three months ended March 31, 2019.

At March 31, 2019 and December 31, 2018, the Corporation held subordinate securities issued by the credit card securitization trust with a notional principal amount of \$7.3 billion and \$7.7 billion. These securities serve as a form of credit enhancement to the senior debt securities and have a stated interest rate of zero percent. During the three months ended March 31, 2018, there were \$254 million of these subordinate securities issued. None were issued in the three months ended March 31, 2019.

Resecuritization Trusts

The Corporation transfers securities, typically MBS, into resecuritization VIEs at the request of customers seeking

securities with specific characteristics. Generally, there are no significant ongoing activities performed in a resecuritization trust, and no single investor has the unilateral ability to liquidate the trust.

The Corporation resecuritized \$4.4 billion and \$6.7 billion of securities during the three months ended March 31, 2019 and 2018 Securities transferred into resecuritization VIEs were measured at fair value with changes in fair value recorded in trading account income prior to the resecuritization and, accordingly, no gain or loss on sale was recorded. Resecuritization proceeds included securities with an initial fair value of \$1.3 billion during both the three months ended March 31, 2019 and 2018. Substantially all of the other securities received as resecuritization proceeds were classified as trading securities and were categorized as Level 2 within the fair value hierarchy.

Municipal Bond Trusts

The Corporation administers municipal bond trusts that hold highly-rated, long-term, fixed-rate municipal bonds. The trusts obtain financing by issuing floating-rate trust certificates that reprice on a weekly or other short-term basis to third-party investors.

The Corporation's liquidity commitments to unconsolidated municipal bond trusts, including those for which the Corporation was transferor, totaled \$2.3 billion and \$2.1 billion at March 31, 2019 and December 31, 2018. The weighted-average remaining life of bonds held in the trusts at March 31, 2019 was 7.3 years. There were no material write-downs or downgrades of assets or issuers during the three months ended March 31, 2019 and 2018.

Other Variable Interest Entities

The table below summarizes select information related to other VIEs in which the Corporation held a variable interest at March 31, 2019 and December 31, 2018.

Other VIEs

	Cor	solidated	Und	consolidated	Total	Consolidated	Ur	nconsolidated	Total
(Dollars in millions)			Mai	rch 31, 2019			Dece	ember 31, 2018	
Maximum loss exposure	\$	3,950	\$	24,383	\$ 28,333	\$ 4,177	\$	24,498	\$ 28,675
On-balance sheet assets									
Trading account assets	\$	2,134	\$	890	\$ 3,024	\$ 2,335	\$	860	\$ 3,195
Debt securities carried at fair value		_		82	82	_		84	84
Loans and leases		1,872		4,086	5,958	1,949		3,940	5,889
Allowance for loan and lease losses		(2)		(30)	(32)	(2)		(30)	(32)
All other assets		50		18,993	19,043	53		18,885	18,938
Total	\$	4,054	\$	24,021	\$ 28,075	\$ 4,335	\$	23,739	\$ 28,074
On-balance sheet liabilities									
Long-term debt	\$	98	\$	_	\$ 98	\$ 152	\$	_	\$ 152
All other liabilities		7		3,982	3,989	7		4,231	4,238
Total	\$	105	\$	3,982	\$ 4,087	\$ 159	\$	4,231	\$ 4,390
Total assets of VIEs	\$	4,054	\$	92,018	\$ 96,072	\$ 4,335	\$	94,746	\$ 99,081

Customer VIEs

Customer VIEs include credit-linked, equity-linked and commodity-linked note VIEs, repackaging VIEs and asset acquisition VIEs, which are typically created on behalf of customers who wish to obtain market or credit exposure to a specific company, index, commodity or financial instrument.

The Corporation's maximum loss exposure to consolidated and unconsolidated customer VIEs totaled \$2.0 billion and \$2.1 billion at March 31, 2019 and December 31, 2018, including the notional amount of derivatives to which the Corporation is a counterparty,

net of losses previously recorded, and the Corporation's investment, if any, in securities issued by the VIEs.

Collateralized Debt Obligation VIEs

The Corporation receives fees for structuring CDO VIEs, which hold diversified pools of fixed-income securities, typically corporate debt or ABS, which the CDO VIEs fund by issuing multiple tranches of debt and equity securities. CDOs are generally managed by third-party portfolio managers. The Corporation typically transfers assets to these CDOs, holds securities issued by the CDOs and may be a derivative counterparty to the CDOs. The Corporation's

maximum loss exposure to consolidated and unconsolidated CDOs totaled\$319 million and \$421 million at March 31, 2019 and December 31, 2018.

Investment VIEs

The Corporation sponsors, invests in or provides financing, which may be in connection with the sale of assets, to a variety of investment VIEs that hold loans, real estate, debt securities or other financial instruments and are designed to provide the desired investment profile to investors or the Corporation. At March 31, 2019 and December 31, 2018, the Corporation's consolidated investment VIEs had total assets of \$188 million and \$270 million. The Corporation also held investments in unconsolidated VIEs with total assets of \$34.9 billion and \$37.7 billion at March 31, 2019 and December 31, 2018. The Corporation's maximum loss exposure associated with both consolidated and unconsolidated investment VIEs totaled \$7.3 billion and \$7.2 billion at March 31, 2019 and December 31, 2018 comprised primarily of on-balance sheet assets less non-recourse liabilities.

Leveraged Lease Trusts

The Corporation's net investment in consolidated leveraged lease trusts totaled \$1.8 billion at both March 31, 2019 and December 31, 2018. The trusts hold long-lived equipment such as rail cars, power generation and distribution equipment, and commercial aircraft. The Corporation structures the trusts and holds a significant residual interest. The net investment represents the Corporation's maximum loss exposure to the trusts in the unlikely event that the leveraged lease investments become worthless. Debt issued by the leveraged lease trusts is non-recourse to the Corporation.

Tax Credit VIEs

The Corporation holds investments in unconsolidated limited partnerships and similar entities that construct, own and operate affordable housing, wind and solar projects. An unrelated third party is typically the general partner or managing member and has control over the significant activities of the VIE. The Corporation earns a return primarily through the receipt of tax credits allocated to the projects. The maximum loss exposure included in the Other VIEs table was \$16.8 billion and \$17.0 billion at March 31, 2019 and December 31, 2018. The Corporation's risk of loss is generally mitigated by policies requiring that the project qualify for the expected tax credits prior to making its investment.

The Corporation's investments in affordable housing partnerships, which are reported in other assets on the Consolidated Balance Sheet, totaled \$8.7 billion and \$8.9 billion, including unfunded commitments to provide capital contributions of\$3.7 billion and \$3.8 billion at March 31, 2019 and December 31, 2018. The unfunded commitments are expected to be paid over the next five years. The Corporation recognized tax credits and other tax benefits from investments in affordable housing partnerships of \$280 million and \$248 million and reported pretax losses in other income of \$248 million and \$208 million for the three months ended March 31, 2019 and 2018. Tax credits are recognized as part of the Corporation's annual effective tax rate used to determine tax expense in a given quarter. Accordingly, the portion of a year's expected tax benefits recognized in any given quarter may differ from 25 percent. The Corporation may from time to time be asked to invest additional amounts to support a troubled affordable housing project. Such additional investments have not been and are not expected to be significant.

NOTE 8 Goodwill and Intangible Assets

Goodwill

The table below presents goodwill balances by business segment and All Other at March 31, 2019 and December 31, 2018. The reporting units utilized for goodwill impairment testing are the operating segments or one level below. For more information, see Note 8 – Goodwill and Intangible Assets to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K

Goodwill

Dollars in millions)	March 31 2019	December 31 2018
Consumer Banking	\$ 30,123	\$ 30,123
Global Wealth & Investment Management	9,677	9,677
Global Banking	23,923	23,923
Global Markets	5,182	5,182
All Other	46	46
Total goodwill	\$ 68,951	\$ 68,951

Intangible Assets

At March 31, 2019 and December 31, 2018, the net carrying value of intangible assets was \$1.7 billion and \$1.8 billion. Both periods included \$1.6 billion of intangible assets associated with trade names, of which \$1.5 billion and \$1.6 billion at March 31, 2019 and December 31, 2018 had an indefinite life and, accordingly, were not being amortized. Amortization of intangibles expense was \$26 million and \$135 million for the three months endedMarch 31, 2019 and 2018.

NOTE 9 Leases

The Corporation enters into both lessor and lessee arrangements. For more information on lease accounting, see Note 1 - Summary of Significant Accounting Principles and on lease financing receivables, see Note 5 - Outstanding Loans and

Lessor Arrangements

The Corporation's lessor arrangements primarily consist of operating, sales-type and direct financing leases for equipment. Lease agreements may include options to renew and for the lessee to purchase the leased equipment at the end of the

At March 31, 2019, the total net investment in sales-type and direct financing leases was \$22.6 billion, comprised of \$20.3 billion in lease receivables and \$2.3 billion in unguaranteed residuals. In certain cases, the Corporation obtains thirdparty residual value insurance to reduce its residual asset risk. The carrying value of residual assets with third-party residual value insurance for at least a portion of the asset value was \$3.4 billion.

For the three months ended March 31, 2019, total lease income was \$426 million, consisting of \$205 million from sales-type and direct financing leases and \$221 million from operating leases.

Lessee Arrangements

The Corporation's lessee arrangements predominantly consist of operating leases for premises and equipment, the Corporation's financing leases are not significant. Right-of-use assets were \$9.6 billion and lease liabilities were \$9.9 billion at March 31, 2019. The weighted-average discount rate used to calculate the present value of future minimum lease payments was four percent.

Lease terms may contain renewal and extension options and early termination features. Generally, these options do not impact the lease term because the Corporation is not reasonably certain that it will exercise the options. The weightedaverage lease term was 7.8 years at March 31, 2019.

The table below provides the components of lease cost and supplemental information for the three months ended March 31, 2019

Lease Cost and Supplemental Information

(Dollars in millions)	E	e Months Inded n 31, 2019
Operating lease cost	\$	519
Variable lease cost (1)		127
Total lease cost (2)	\$	646
Right-of-use assets obtained in exchange for new operating lease liabilities	(3)\$	385
Operating cash flows from operating leases (4)		501

⁽¹⁾ Primarily consists of payments for common area maintenance and property

Maturity Analysis

The maturities of lessor and lessee arrangements outstanding at March 31, 2019 are presented in the table below based on undiscounted cash flows.

Maturities of Lessor and Lessee Arrangements

	Les	ssor		Lessee (1)
	Operating Leases		Sales-type and Direct Financing Leases (2)	Operating Leases
(Dollars in millions)			March 31, 2019	
Remainder of 2019	\$ 582	\$	4,818	\$ 1,483
2020	680		5,689	1,854
2021	571		4,533	1,625
2022	479		2,634	1,346
2023	380		1,539	1,076
Thereafter	1,105		2,708	4,175
Total undiscounted cash flows	\$ 3,797	\$	21,921	\$ 11,559
Less: Net present value adjustment			1,621	1,630
Total (3)		\$	20,300	\$ 9,929

⁽¹⁾ Excludes \$1.9 billion in commitments under lessee arrangements that have not yet commenced with lease terms that will begin in 2019.

(2) Includes \$16.8 billion in commercial lease financing receivables and \$3.5 billion in direct/indirect consumer lease financing

A t December 31, 2018, operating lease commitments under lessee arrangements were \$2.4 billion, \$2.2 billion, \$2.0 billion, \$1.7 billion and \$1.3 billion for 2019 through 2023, respectively, and \$6.2 billion in the aggregate for all years thereafter. These amounts include variable lease payments and commitments under leases that have not yet commenced, both of which are excluded from the lessee maturity analysis presented in the table above.

⁽²⁾ Amounts are recorded in occupancy and equipment expense in the Consolidated Statement of

⁽³⁾ Represents non-cash activity and, accordingly, is not reflected in the Consolidated Statement of Cash Flows.

Represents cash paid for amounts included in the measurement of lease

receivables.
(3) Represents lease receivables for lessor arrangements and lease liabilities for lessee

NOTE 10 Federal Funds Sold or Purchased, Securities Financing Agreements, Short-term Borrowings and Restricted Cash

The table below presents federal funds sold or purchased, securities financing agreements (which include securities borrowed or purchased under agreements to resell and securities loaned or sold under agreements to repurchase) and short-term borrowings. The Corporation elects to account for certain securities financing agreements and short-term borrowings under the fair value option. For more information on the fair value option, see Note 16 - Fair Value Option.

	 Amount	Rate	Ar	mount	Rate
		Three Months I	Ended Mar	ch 31	
(Dollars in millions)	 2019	1		201	8
Federal funds sold and securities borrowed or purchased under agreements to resell					
Average during period	\$ 274,308	1.77 %	\$	248,320	1.02 %
Maximum month-end balance during period	280,562	n/a		252,078	n/a
Federal funds purchased and securities loaned or sold under agreements to repurchase					
Average during period	\$ 200,154	2.44 %	\$	195,614	1.41 %
Maximum month-end balance during period	200,486	n/a		191,319	n/a
Short-term borrowings					
Average during period	15,432	2.95		46,334	3.98
Maximum month-end balance during period	14,848	n/a		52,480	n/a

Offsetting of Securities Financing Agreements

The Corporation enters into securities financing agreements to accommodate customers (also referred to as "matched-book transactions"), obtain securities to cover short positions, and to finance inventory positions. For more information on securities financing agreements and the offsetting of securities financing transactions, see Note 10 - Federal Funds Sold or Purchased, Securities Financing Agreements, Short-term Borrowings and Restricted Cash to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K

The Securities Financing Agreements table presents securities financing agreements included on the Consolidated Balance Sheet in federal funds sold and securities borrowed or purchased under agreements to resell, and in federal funds purchased and securities loaned or sold under agreements to repurchase at March 31, 2019 and December 31, 2018. Balances are presented on a gross basis, prior to the application of counterparty netting. Gross assets and liabilities are adjusted on an aggregate basis to take into consideration the effects of legally enforceable master netting agreements. For more information on the offsetting of derivatives, see Note 3 - Derivatives.

Securities Financing Agreements

	Asset	Gross ts/Liabilities (1)	Aı	mounts Offset		Balance Sheet Amount	Finan	ncial Instruments (2)	Net As	sets/Liabilities
(Dollars in millions)					Ма	rch 31, 2019				
Securities borrowed or purchased under agreements to resell (3)	\$	417,787	\$	(150,770)	\$	267,017	\$	(248,930)	\$	18,087
Securities loaned or sold under agreements to repurchase	\$	339,221	\$	(150,770)	\$	188,451	\$	(176,042)	\$	12,409
Other (4)		23,267		_		23,267		(23,267)		
Total	\$	362,488	\$	(150,770)	\$	211,718	\$	(199,309)	\$	12,409
					Dece	ember 31, 2018				
Securities borrowed or purchased under agreements to resell (3)	\$	366,274	\$	(106,865)	\$	259,409	\$	(240,790)	\$	18,619
Securities loaned or sold under agreements to repurchase	\$	293,853	\$	(106,865)	\$	186,988	\$	(176,740)	\$	10,248
Other (4)		19,906		_		19,906		(19,906)		
Total	\$	313,759	\$	(106,865)	\$	206,894	\$	(196,646)	\$	10,248

⁽¹⁾ Includes activity where uncertainty exists as to the enforceability of certain master netting agreements under bankruptcy laws in some countries or

Repurchase Agreements and Securities Loaned Transactions Accounted for as Secured Borrowings

The following tables present securities sold under agreements to repurchase and securities loaned by remaining contractual term to maturity and class of collateral pledged. Included in "Other" are transactions where the Corporation acts as the lender in a securities lending agreement and receives securities that can be pledged as collateral or sold. Certain agreements contain a right

to substitute collateral and/or terminate the agreement prior to maturity at the option of the Corporation or the counterparty. Such agreements are included in the table below based on the remaining contractual term to maturity. For more information on collateral requirements, see Note 10 - Federal Funds Sold or Purchased, Securities Financing Agreements, Short-term Borrowings and Restricted Cash to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K

industries. (2) Includes securities collateral received or pledged under repurchase or securities lending agreements where there is a legally enforceable master netting agreement. These amounts are not offset on the Consolidated Balance Sheet, but are shown as a reduction to derive a net asset or liability. Securities collateral received or pledged where the legal enforceability of the master netting agreements is uncertain is excluded from the table.

(3) Excludes repurchase activity of \$9.6 billion and \$11.5 billion reported in loans and leases on the Consolidated Balance Sheet atMarch 31, 2019 and December 31,

⁴⁰ Balance is reported in accrued expenses and other liabilities on the Consolidated Balance Sheet and relates to transactions where the Corporation acts as the lender in a securities lending agreement and receives securities that can be pledged as collateral or sold. In these transactions, the Corporation recognizes an asset at fair value, representing the securities received, and a liability, representing the obligation to return those securities.

Remaining Contractual Maturity

	ernight and ontinuous	30 Days or Less	Afte	r 30 Days Through 90 Days	Greater than 90 Days (1)	Total
(Dollars in millions)			N	March 31, 2019		
Securities sold under agreements to repurchase	\$ 163,997	\$ 90,653	\$	30,857	\$ 33,163	\$ 318,670
Securities loaned	15,363	590		912	3,686	20,551
Other	23,267	_		_	_	23,267
Total	\$ 202,627	\$ 91,243	\$	31,769	\$ 36,849	\$ 362,488
			De	cember 31, 2018		
Securities sold under agreements to repurchase	\$ 139,017	\$ 81,917	\$	34,204	\$ 21,476	\$ 276,614
Securities loaned	7,753	4,197		1,783	3,506	17,239
Other	19,906	_		_	_	19,906
Total	\$ 166,676	\$ 86,114	\$	35,987	\$ 24,982	\$ 313,759
(1) No agreements have maturities greater than three						

Class of Collateral Pledged

	A	rities Sold Under greements to Repurchase	Securities Loaned		Other	Total
(Dollars in millions)			March :	31, 2019		
U.S. government and agency securities	\$	188,303	\$ _	\$	_	\$ 188,303
Corporate securities, trading loans and other		11,607	4,236		300	16,143
Equity securities		12,853	12,033		22,912	47,798
Non-U.S. sovereign debt		100,562	4,282		55	104,899
Mortgage trading loans and ABS		5,345	_		_	5,345
Total	\$	318,670	\$ 20,551	\$	23,267	\$ 362,488
			Decembe	r 31, 2018	3	
U.S. government and agency securities	\$	164,664	\$ _	\$	_	\$ 164,664
Corporate securities, trading loans and other		11,400	2,163		287	13,850
Equity securities		14,090	10,869		19,572	44,531
Non-U.S. sovereign debt		81,329	4,207		47	85,583
Mortgage trading loans and ABS		5,131	_		_	5,131
Total	\$	276,614	\$ 17,239	\$	19,906	\$ 313,759

Restricted Cash

At March 31, 2019 and December 31, 2018, the Corporation held restricted cash included within cash and cash equivalents on the Consolidated Balance Sheet of \$21.2 billion and \$22.6 billion, predominantly related to cash held on deposit with the Federal Reserve Bank and non-U.S. central banks to meet reserve requirements and cash segregated in compliance with securities regulations.

NOTE 11 Commitments and Contingencies

In the normal course of business, the Corporation enters into a number of offbalance sheet commitments. These commitments expose the Corporation to varying degrees of credit and market risk and are subject to the same credit and market risk limitation reviews as those instruments recorded on the Consolidated Balance Sheet. For more information on commitments and contingencies, see *Note* 12 – Commitments and Contingencies to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

Credit Extension Commitments

The Corporation enters into commitments to extend credit such as loan commitments, standby letters of credit (SBLCs) and commercial letters of credit to meet the financing needs of its customers. The following table includes the notional amount of

unfunded legally binding lending commitments net of amounts distributed (i.e., syndicated or participated) to other financial institutions. The distributed amounts were \$10.4 billion and \$10.7 billion at March 31, 2019 and December 31, 2018. At March 31, 2019, the carrying value of these commitments, excluding commitments accounted for under the fair value option, was \$820 million, including deferred revenue of \$18 million and a reserve for unfunded lending commitments of \$802 million. At December 31, 2018, the comparable amounts were \$813 million, \$16 million and \$797 million, respectively. The carrying value of these commitments is classified in accrued expenses and other liabilities on the Consolidated Balance Sheet.

Legally binding commitments to extend credit generally have specified rates and maturities. Certain of these commitments have adverse change clauses that help to protect the Corporation against deterioration in the borrower's ability to pay.

The table below also includes the notional amount of commitments of\$3.1 billion at both March 31, 2019 and December 31, 2018 that are accounted for under the fair value option. However, the table excludes cumulative net fair value of \$106 million and \$169 million at March 31, 2019 and December 31, 2018 on these commitments, which is classified in accrued expenses and other liabilities. For more information regarding the Corporation's loan commitments accounted for under the fair value option, see *Note 16 – Fair Value Option*.

Credit Extension Commitments

		Expire in One Year or Less	Expire After One Year Through Three Years	Exp	pire After Three Years Through Five Years	Expire After Five Years	Total
(Dollars in millions)					March 31, 2019		
Notional amount of credit extension commitments							
Loan commitments	\$	82,301	\$ 140,664	\$	159,232	\$ 21,299	\$ 403,496
Home equity lines of credit		2,155	2,093		4,030	35,516	43,794
Standby letters of credit and financial guarantees (1)		20,723	9,935		2,499	1,267	34,424
Letters of credit (2)		1,047	223		58	34	1,362
Legally binding commitments		106,226	152,915		165,819	58,116	483,076
Credit card lines (3)		377,043	_		_	_	377,043
Total credit extension commitments	\$	483,269	\$ 152,915	\$	165,819	\$ 58,116	\$ 860,119
				D	December 31, 2018		
Notional amount of credit extension commitments							
Loan commitments	\$	84,910	\$ 142,271	\$	155,298	\$ 22,683	\$ 405,162
Home equity lines of credit		2,578	2,249		3,530	34,702	43,059
Standby letters of credit and financial guarantees (1)		22,571	9,702		2,457	1,074	35,804
Letters of credit (2)		1,168	84		69	57	1,378
Legally binding commitments	·	111,227	154,306		161,354	 58,516	485,403
Credit card lines (3)		371,658	_		_	_	371,658
Total credit extension commitments	\$	482,885	\$ 154,306	\$	161,354	\$ 58,516	\$ 857,061

(1)The notional amounts of SELCs and financial guarantees classified as investment grade and non-investment grade based on the credit quality of the underlying reference name within the instrument wer \$26.6 billion and \$7.4 billion at March 31, 2019, and \$28.3 billion and \$7.4 billion at December 31, 2018. Amounts in the table include consumer SBLCs of \$300 million and \$372 million at March 31, 2019 and December 31, 2018.

(2) At March 31, 2019 and December 31, 2018, included are letters of credit of \$606 million and \$422 million related to certain liquidity commitments of VIEs. For additional information, see/Note 7 – Securitizations and Other Variable Interest Entities.

(3) Includes business card unused lines of credit.

Other Commitments

At March 31, 2019 and December 31, 2018, the Corporation had commitments to purchase loans (e.g., residential mortgage and commercial real estate) of \$426 million and \$329 million, which upon settlement will be included in loans or LHFS, and commitments to purchase commercial loans of \$270 million and \$463 million, which upon settlement will be included in trading account assets.

At March 31, 2019 and December 31, 2018, the Corporation had commitments to purchase commodities, primarily liquefied natural gas, of \$1.1 billion and \$1.3 billion, which upon settlement will be included in trading account assets.

At March 31, 2019 and December 31, 2018, the Corporation had commitments to enter into resale and forward-dated resale and securities borrowing agreements of \$82.1 billion and \$59.7 billion, and commitments to enter into forward-dated repurchase and securities lending agreements of \$52.0 billion and \$21.2 billion. These commitments expire primarily within the next 21 months.

At March 31, 2019 and December 31, 2018, the Corporation had a commitment to originate or purchase up to \$3.1 billion and \$3.0 billion on a rolling 12-month basis, of auto loans and leases from a strategic partner. This commitment extends through November 2022 and can be terminated with 12 months prior notice.

Other Guarantees

Bank-owned Life Insurance Book Value Protection

The Corporation sells products that offer book value protection to insurance carriers who offer group life insurance policies to corporations, primarily banks. At March 31, 2019 and December 31, 2018, the notional amount of these guarantees totaled\$9.1 billion and \$9.8 billion. At March 31, 2019 and December 31, 2018, the Corporation's maximum exposure related to these guarantees totaled \$1.4 billion and \$1.5 billion, with estimated maturity dates between 2033 and 2039.

Merchant Services

In accordance with credit and debit card association rules, the Corporation sponsors merchant processing servicers that process credit and debit card transactions on behalf of various merchants. If the merchant processor fails to meet its obligation to reimburse the cardholder for disputed transactions, then the Corporation could be held liable. For the three months ended March 31, 2019 and 2018, the sponsored entities processed and settled\$205.6 billion and \$200.7 billion of transactions and recorded losses of \$4 million and \$8 million.

At March 31, 2019 and December 31, 2018, the maximum potential exposure for sponsored transactions totaled \$346.6 billion and \$348.1 billion. However, the Corporation believes that the maximum potential exposure is not representative of the actual potential loss exposure and does not expect to make material payments in connection with these guarantees.

A significant portion of our merchant processing activity is performed by a joint venture formed in 2009. At that time, the Corporation contributed its merchant processing business, valued at \$4.7 billion, in exchange for a minority ownership interest in the venture. The joint venture is accounted for as an equity method investment and reported in All Other. Since 2009, the carrying value of the investment has decreased to \$2.8 billion at March 31, 2019 due to cash distributions received, the Corporation's proportionate share of income and an impairment charge recorded in 2011.

The term of the joint venture is governed by various operating agreements that automatically renew in accordance with their terms unless either partner gives a written notice of termination at least one year prior to the end of the term. The current term ends in June 2020. If either partner decides to terminate the joint venture, the fair value of the Corporation's investment would no longer be based on the cash flows of the joint venture into perpetuity, but instead would be based primarily on the estimated fair value of finite-lived assets that would be received upon dissolution. That change would likely result in a material impairment of the investment.

Representations and Warranties Obligations and Corporate Guarantees

For more information on representations and warranties obligations and corporate guarantees, and the related reserve and estimated range of possible loss, see *Note 12 – Commitments and Contingencies* to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

The reserve for representations and warranties obligations and corporate guarantees at March 31, 2019 and December 31, 2018 was \$1.9 billion and \$2.0 billion and is included in accrued expenses and other liabilities on the Consolidated Balance Sheet and the related provision is included in other income in the Consolidated Statement of Income. The representations and warranties reserve represents the Corporation's best estimate of probable incurred losses. It is reasonably possible that future representations and warranties losses may occur in excess of the amounts recorded for these exposures. See Litigation and Regulatory Matters below for the Corporation's combined range of possible loss in excess of the reserve for representations and warranties and the accrued liability for litigation.

Other Guarantees

The Corporation has entered into additional guarantee agreements and commitments, including sold risk participation swaps, liquidity facilities, lease-end obligation agreements, partial credit guarantees on certain leases, real estate joint venture guarantees, divested business commitments and sold put options that require gross settlement. The maximum potential future payment under these agreements was approximately \$6.1 billion and \$5.9 billion at March 31, 2019 and December 31, 2018. The estimated maturity dates of these obligations extend up to 2040. The Corporation has made no material payments under these guarantees. For more information on maximum potential future payments under VIE-related liquidity commitments, see *Note 7 – Securitizations and Other Variable Interest Entities*.

In the normal course of business, the Corporation periodically guarantees the obligations of its affiliates in a variety of transactions including ISDA-related transactions and non-ISDA related transactions such as commodities trading, repurchase agreements, prime brokerage agreements and other transactions.

Guarantees of Certain Long-term Debt

The Corporation, as the parent company, fully and unconditionally guarantees the securities issued by BofA Finance LLC, a 100 percent owned finance subsidiary of the Corporation, and effectively provides for the full and unconditional guarantee of trust securities issued by certain statutory trust companies that are 100 percent owned finance subsidiaries of the Corporation.

Litigation and Regulatory Matters

The following disclosure supplements *Note 12 – Commitments and Contingencies* to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K, collectively the commitments and contingencies disclosures.

In the ordinary course of business, the Corporation and its subsidiaries are routinely defendants in or parties to many pending and threatened legal, regulatory and governmental actions and proceedings. In view of the inherent difficulty of predicting the outcome of such matters, particularly where the claimants seek very large or indeterminate damages or where the matters present novel legal theories or involve a large number of parties, the Corporation generally cannot predict the eventual outcome of the pending matters, the timing of the ultimate resolution of these matters, or any eventual loss, fines or penalties related to each pending matter.

In accordance with applicable accounting guidance, the Corporation establishes an accrued liability when those matters present loss contingencies that are both probable and estimable. In such cases, there may be an exposure to loss in excess of any amounts accrued. Excluding expenses of internal and external legal service providers, litigation-related expense of \$73 million and \$116 million was recognized for the three months ended March 31, 2019 and 2018

For a limited number of the matters disclosed in the commitments and contingencies disclosures for which a loss, whether in excess of a related accrued liability or where there is no accrued liability, is reasonably possible in future periods, the Corporation is able to estimate a range of possible loss. With respect to such matters, in cases in which the Corporation possesses sufficient appropriate information to estimate a range of possible loss, that estimate is aggregated and disclosed below. There may be other disclosed matters for which a loss is probable or reasonably possible but such an estimate of the range of possible loss may not be possible. For those disclosed matters where an estimate of the range of possible loss is possible, as well as for representations and warranties exposures, management currently estimates the aggregate range of reasonably possible loss for these exposures is \$0 to \$1.9 billion in excess of the accrued liability, if any. This estimated range of possible loss is based upon currently available information and is subject to significant judgment and a variety of assumptions, and known and unknown uncertainties. The matters underlying the estimated range will change from time to time, and actual results may vary significantly from the current estimate. Therefore, this estimated range of possible loss represents what the Corporation believes to be an estimate of possible loss only for certain matters meeting these criteria. It does not represent the Corporation's maximum loss exposure.

Information is provided in the commitments and contingencies disclosures regarding the nature of the litigation contingencies and, where specified, the amount of the claim associated with these loss contingencies. Based on current knowledge, management does not believe that loss contingencies arising from pending matters, including the matters described in the commitments and contingencies disclosures, will have a material adverse effect on the consolidated financial position or liquidity of the Corporation. However, in light of the inherent uncertainties involved in these matters, some of which are beyond the Corporation's control, and the very large or indeterminate damages sought in some of these matters, an adverse outcome in one or more of these matters could be material to the Corporation's results of operations or liquidity for any particular reporting period.

Investigations of Precious Metals Trading

Two individuals formerly employed by Merrill Lynch Commodities, Inc. (MLCI) were previously indicted in the U.S. District Court for the Northern District of Illinois for conduct that the U.S. Department of Justice (DOJ) alleges is a precious metals tutures price manipulation scheme in violation of various laws, including statutes prohibiting commodities fraud. The DOJ and the U.S. Commodity Futures Trading Commission are continuing investigations of precious metals market trading practices, primarily during the period 2009-2014, including with respect to potential liability of MLCI. The Corporation continues to cooperate with these investigations. A resolution of these investigations may impose monetary penalties and remedial actions.

NOTE 12 Shareholders' Equity

Common Stock

Declared Quarterly Cash Dividends on Common Stock (1)

Declaration Date	Record Date	Payment Date	 dend Per Share
April 24, 2019	June 7, 2019	June 28, 2019	\$ 0.15
January 30, 2019	March 1, 2019	March 29, 2019	0.15

(1) I n 2019, and through April 26,

On February 7, 2019, following approval by the Federal Reserve, the Board authorized the repurchase of an additional \$2.5 billion of common stock through June 30, 2019. This common stock repurchase authorization includes only common

During the three months ended March 31, 2019, the Corporation repurchased and retired 220 million shares of common stock in connection with the 2018 Comprehensive Capital Analysis and Review (CCAR) capital plan. These repurchases reduced shareholders' equity by \$6.3 billion.

During the three months ended March 31, 2019, in connection with employee stock plans, the Corporation issued 83 million shares of its common stock and, to satisfy tax withholding obligations, repurchased 32 million shares of its common stock. At March 31, 2019, the Corporation had reserved 443 million unissued shares of common stock for future issuances under employee stock plans, convertible notes and preferred stock.

Preferred Stock

During the three months ended March 31, 2019, the Corporation declared \$442 million of cash dividends on preferred stock. There were no issuances or redemptions of preferred stock during the three months ended March 31, 2019.

NOTE 13 Earnings Per Common Share

The calculation of earnings per common share (EPS) and diluted EPS for thethree months ended March 31, 2019 and 2018 is presented below. For more information on the calculation of EPS, see Note 1 - Summary of Significant Accounting Principles to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

	Thre	e Months	s Ende	ed March 31
(In millions, except per share information)	2019			2018
Earnings per common share				
Net income	\$ 7	311	\$	6,918
Preferred stock dividends		442)		(428)
Net income applicable to common shareholders	\$ 6	869	\$	6,490
Average common shares issued and outstanding	9,7	25.9		10,322.4
Earnings per common share	\$).71	\$	0.63
Diluted earnings per common share				
Net income applicable to common shareholders	\$ 6	869	\$	6,490
Average common shares issued and outstanding	9,7	25.9		10,322.4
Dilutive potential common shares (1)		61.4		150.3
Total diluted average common shares issued and outstanding	9,7	37.3		10,472.7
Diluted earnings per common share	\$).70	\$	0.62

⁽¹⁾ Includes incremental dilutive shares from RSUs, restricted stock and

For both the three months ended March 31, 2019 and 2018 62 million average dilutive potential common shares associated with the Series L preferred stock were not included in the diluted share count because the result would have been antidilutive under the "if-converted" method. For the three months ended March 31, 2018, average options to purchase seven million shares of common stock were outstanding but not included in the computation of EPS because the result would have been antidilutive under the treasury stock method. For the three months

ended March 31, 2018, average warrants to purchase122 million shares of common stock were included in the computation of EPS under the treasury stock method. These warrants expired on October 29, 2018. For the three months ended March 31, 2019 and 2018, average warrants to purchase 14 million and 142 million shares of common stock were included in the diluted EPS calculation under the treasury stock method. Substantially all of these warrants were exercised on or before their expiration date of January 16, 2019.

Corporation Key Employee Equity Plan. These awards were authorized to settle predominantly in shares of common stock of the Corporation and will be expensed based on the grant-date fair value of the shares. Certain RSUs will be settled in cash or contain settlement provisions that subject these awards to variable accounting whereby compensation expense is adjusted to fair value based on changes in the share price of the Corporation's common stock up to the settlement date. Of the RSUs granted, 71 million will vest predominantly over three years with most vesting in one-third increments on each of the first three anniversaries of the grant date provided that the employee remains continuously employed with the Corporation during that time, and will be expensed ratably over the vesting period, net of estimated forfeitures, for non-retirement eligible employees. For RSUs granted to employees who are retirement eligible, the awards are deemed authorized as of the beginning of the year preceding the grant date when the incentive award plans are generally approved. As a result, the estimated value is

expensed ratably over the year preceding the grant date. Additionally, 23 million of the RSUs granted will vest predominantly over four years with most vesting in one-

fourth increments on each of the first four anniversaries of the grant date provided

that the employee remains continuously employed with the Corporation during that

time, and will be expensed ratably over the vesting period, net of estimated

During the three months ended March 31, 2019, the Corporation granted 94 million

restricted stock unit (RSU) awards to certain employees under the Bank of America

Restricted Stock Units

forfeitures. For additional information, see Note 18 - Stock-based Compensation Plans to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

NOTE 14 Accumulated Other Comprehensive Income (Loss)

The table below presents the changes in accumulated OCI after-tax for thethree months ended March 31, 2019 and 2018

(Dollars in millions)	ebt and / Securities	oit Valuation djustments	ı	Derivatives	Employee enefit Plans	Foreign Currency	Total
Balance, December 31, 2017	\$ (1,206)	\$ (1,060)	\$	(831)	\$ (3,192)	\$ (793)	\$ (7,082)
Accounting change related to certain tax effects (1)	(393)	(220)		(189)	(707)	239	(1,270)
Cumulative adjustment for hedge accounting change (2)	_	_		57	_	_	57
Net change	(3,963)	273		(275)	30	(48)	(3,983)
Balance, March 31, 2018	\$ (5,562)	\$ (1,007)	\$	(1,238)	\$ (3,869)	\$ (602)	\$ (12,278)
Balance, December 31, 2018	\$ (5,552)	\$ (531)	\$	(1,016)	\$ (4,304)	\$ (808)	\$ (12,211)
Net change	2,309	(363)		229	28	(34)	2,169
Balance, March 31, 2019	\$ (3,243)	\$ (894)	\$	(787)	\$ (4,276)	\$ (842)	\$ (10,042)

⁽¹⁾ Effective January 1, 2018, the Corporation adopted the accounting standard on tax effects in accumulated OCI related to the Tax Act. Accordingly, certain tax effects were reclassified from accumulated OCI to retained

The table below presents the net change in fair value recorded in accumulated OCI, net realized gains and losses reclassified into earnings and other changes for each component of OCI pre- and after-tax for the three months ended March 31, 2019 and 2018

	Pret	ax		Tax effect		After- tax	Р	retax	Tax effect	After- tax
					Three	Months E	Ended	March 31		
(Dollars in millions)			:	2019					2018	
Debt and equity securities:										
Net increase (decrease) in fair value	\$ 3,0	75	\$	(763)	\$	2,312	\$ ((5,323)	\$ 1,360	\$ (3,963)
Net realized (gains) reclassified into earnings (1)		(4)		1		(3)		(2)	2	_
Net change	3,0	71		(762)		2,309	((5,325)	1,362	(3,963)
Debit valuation adjustments:										
Net increase (decrease) in fair value	(4	175)		110		(365)		342	(82)	260
Net realized losses reclassified into earnings (1)		3		(1)		2		17	(4)	13
Net change	(4	72)		109		(363)		359	(86)	273
Derivatives:										
Net increase (decrease) in fair value		64		(52)		212		(424)	131	(293)
Reclassifications into earnings:										
Net interest income		23		(6)		17		50	(12)	38
Compensation and benefits expense				_		_		(27)	7	(20)
Net realized losses reclassified into earnings		23		(6)		17		23	(5)	18
Net change	:	287		(58)		229		(401)	126	(275)
Employee benefit plans:										
Net actuarial losses and other reclassified into earnings (2)		35		(7)		28		41	(11)	30
Net change		35		(7)		28		41	(11)	30
Foreign currency:										
Net (decrease) in fair value		5		(39)		(34)		(81)	33	(48)
Net change		5		(39)		(34)		(81)	33	(48)
Total other comprehensive income (loss)	\$ 2,9	26	\$	(757)	\$	2,169	\$ ((5,407)	\$ 1,424	\$ (3,983)

⁽¹⁾ Reclassifications of pretax debt and equity securities, DVA and foreign currency (gains) losses are recorded in other income in the Consolidated Statement of

NOTE 15 Fair Value Measurements

Under applicable accounting standards, fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. The Corporation determines the fair values of its financial instruments under applicable accounting standards and conducts a review of its fair value hierarchy classifications on a quarterly basis. Transfers into or out of fair value hierarchy classifications are made if the significant inputs used in the financial models measuring the fair values of the assets and liabilities become unobservable or observable in the current marketplace. During the three months ended March 31, 2019, there were no changes to valuation approaches or techniques that had, or are expected to have, a material impact on the Corporation's consolidated financial position or results of operations.

For more information regarding the fair value hierarchy, how the Corporation measures fair value and valuation techniques, see *Note 1 – Summary of Significant Accounting Principles* and *Note 20 – Fair Value Measurements* to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K The Corporation accounts for certain financial instruments under the fair value option. For additional information, see *Note 16 – Fair Value Option*.

Recurring Fair Value

Assets and liabilities carried at fair value on a recurring basis atMarch 31, 2019 and December 31, 2018, including financial instruments that the Corporation accounts for under the fair value option, are summarized in the following tables.

earnings.
(2) Effective January 1, 2018, the Corporation adopted the hedge accounting standard. Accordingly, an insignificant cumulative-effect adjustment was recognized in retained earnings.

 ⁽²⁾ Reclassifications of pretax deut and equity securities, DW and tolergificurierity (gains) losses are recorded in other income.
 (2) Reclassifications of pretax employee benefit plan costs are recorded in other general operating expense in the Consolidated Statement of Income.

	_				I	March 31, 2019				
			Fair V	/alue Measurements	s		Nettin	g Adjustments	Ass	ets/Liabilities at
(Dollars in millions)		Level 1		Level 2		Level 3		(1)		Fair Value
Assets										
Time deposits placed and other short-term investments	\$	1,180	\$		\$	_	\$	_	\$	1,180
Federal funds sold and securities borrowed or purchased under agreements to resell		_		59,557		_		_		59,557
Trading account assets:										
U.S. Treasury and agency securities (2)		41,904		450		_		_		42,354
Corporate securities, trading loans and other		_		28,254		1,428		_		29,682
Equity securities		63,520		35,570		288		_		99,378
Non-U.S. sovereign debt		8,470		24,068		472		_		33,010
Mortgage trading loans, MBS and ABS:										
U.S. government-sponsored agency guaranteed (2)		_		23,539		_		-		23,539
Mortgage trading loans, ABS and other MBS				9,589		1,510				11,099
Total trading account assets (3)		113,894		121,470		3,698		_		239,062
Derivative assets		12,581		312,097		3,473		(285,760)		42,391
AFS debt securities:										
U.S. Treasury and agency securities		59,800		1,224		_		_		61,024
Mortgage-backed securities:										
Agency		_		117,165		_		_		117,165
Agency-collateralized mortgage obligations		_		5,379		_		_		5,379
Non-agency residential		_		1,434		581		_		2,015
Commercial		_		14,369		_		_		14,369
Non-U.S. securities		_		10,760		2		_		10,762
Other taxable securities		_		3,430		3		_		3,433
Tax-exempt securities		_		17,466		_		_		17,466
Total AFS debt securities		59,800		171,227		586		_		231,613
Other debt securities carried at fair value:										
Agency MBS		_		1,013		_		_		1,013
Non-agency residential MBS		_		1,414		224		_		1,638
Non-U.S. securities		3,369		4,320		_		_		7,689
Other taxable securities		_		3		_		_		3
Total other debt securities carried at fair value		3,369		6,750		224				10,343
Loans and leases		3,303		5,870		317				6,187
Loans held-for-sale		_				558		_		
		17,784		1,989 2,396		2,749		_		2,547 22,929
Other assets (4)								(005.700)		
Total assets (5)	\$	208,608	\$	681,356	\$	11,605	\$	(285,760)	\$	615,809
Liabilities										
Interest-bearing deposits in U.S. offices	\$	_	\$	499	\$	_	\$	_	\$	499
Federal funds purchased and securities loaned or sold under agreements to repurchase		_		26,609		_		_		26,609
Trading account liabilities:										
U.S. Treasury and agency securities		11,539		610		_		_		12,149
Equity securities		37,038		3,155		_		_		40,193
Non-U.S. sovereign debt		16,206		9,234		_		_		25,440
Corporate securities and other		-		6,607		21		_		6,628
Total trading account liabilities		64,783		19,606		21				84,410
Derivative liabilities		11,907		301,867		4,491		(281,927)		36,338
								(201,321)		
Short-term borrowings		20 924		1,895		_		_		1,895
Accrued expenses and other liabilities		20,821		2,552		_		_		23,373
Long-term debt		_		30,735		890				31,625

Total liabilities (5) 97,511

383,763

\$

5,402

\$

(281,927) \$

204,749

Total liabilities (6)

\$ 97,511 \$ 383,763 \$ 5,402 \$ (281,927) \$:

(1) Amounts represent the impact of legally enforceable master netting agreements and also cash collateral held or placed with the same counterparties.

(2) In Clu d es \$24,0 billion of GSE obligations.

(3) Includes securities with a fair value of \$15.7 billion that were segregated in compliance with securities regulations or deposited with clearing organizations. This amount is included in the parenthetical disclosure on the Consolidated Balance Sheet.

(4) Includes MSRs of \$1.9 billion which are classified as Level 3 assets.

(5) Total recurring Level 3 assets were 0.49 percent of total consolidated assets, and total recurring Level 3 liabilities were 0.26 percent of total consolidated liabilities.

				De	cember 31, 2018				
		Fair V	alue Measurements					Asse	ets/Liabilities at Fair
(Dollars in millions)	 Level 1		Level 2		Level 3	Nettin	g Adjustments (1)	71000	Value
Assets									
Time deposits placed and other short-term investments	\$ 1,214	\$	_	\$	_	\$	_	\$	1,214
Federal funds sold and securities borrowed or purchased under agreements to resell	_		56,399		_		_		56,399
Trading account assets:									
U.S. Treasury and agency securities (2)	53,131		1,593		_		_		54,724
Corporate securities, trading loans and other	_		24,630		1,558		_		26,188
Equity securities	53,840		23,163		276		_		77,279
Non-U.S. sovereign debt	5,818		19,210		465		_		25,493
Mortgage trading loans, MBS and ABS:									
U.S. government-sponsored agency guaranteed (2)	_		19,586		_		_		19,586
Mortgage trading loans, ABS and other MBS	_		9,443		1,635		_		11,078
Total trading account assets (3)	112,789		97,625		3,934		_		214,348
Derivative assets	9,967		315,413		3,466		(285,121)		43,725
AFS debt securities:									
U.S. Treasury and agency securities	53,663		1,260		_		_		54,923
Mortgage-backed securities:									
Agency	_		121,826		_		_		121,826
Agency-collateralized mortgage obligations	_		5,530		_		_		5,530
Non-agency residential	_		1,320		597		_		1,917
Commercial	_		14,078		_		_		14,078
Non-U.S. securities	_		9,304		2		_		9,306
Other taxable securities			4,403		7				4,410
Tax-exempt securities			17,376		_		_		17,376
Total AFS debt securities	53,663		175,097		606				229,366
Other debt securities carried at fair value:	33,003		173,037		000		_		229,300
	1,282		_						1,282
U.S. Treasury and agency securities					472		_		
Non-agency residential MBS	400		1,434		172		_		1,606
Non-U.S. securities	490		5,354		_		_		5,844
Other taxable securities			3						3
Total other debt securities carried at fair value	1,772		6,791		172		_		8,735
Loans and leases	_		4,011		338		_		4,349
Loans held-for-sale	_		2,400		542		_		2,942
Other assets (4)	15,032		1,775		2,932				19,739
Total assets (5)	\$ 194,437	\$	659,511	\$	11,990	\$	(285,121)	\$	580,817
Liabilities									
Interest-bearing deposits in U.S. offices	\$ _	\$	492	\$	_	\$	_	\$	492
Federal funds purchased and securities loaned or sold under agreements to repurchase	_		28,875		_		_		28,875
Trading account liabilities:									
U.S. Treasury and agency securities	7,894		761		_		_		8,655
Equity securities	33,739		4,070		_		_		37,809
Non-U.S. sovereign debt	7,452		9,182		_		_		16,634
Corporate securities and other	_		5,104		18		_		5,122
Total trading account liabilities	49,085		19,117		18		_		68,220
Derivative liabilities	9,931		303,441		4,401		(279,882)		37,891
Short-term borrowings	_		1,648		_				1,648
Accrued expenses and other liabilities	18,096		1,979		_		_		20,075
Long-term debt	-		26,872		817		_		27,689
g 2000			20,012		017				21,000

Total liabilities (5)

77,112

\$

382,424

5,236

\$

(279,882)

184,890

⁽¹⁾ Amounts represent the impact of legally enforceable master netting agreements and also cash collateral held or placed with the same counterparties.

(2) Includes \$20.2 billion of GSE obligations.

(3) Includes securities with a fair value of \$16.6 billion that were segregated in compliance with securities regulations or deposited with clearing organizations. This amount is included in the parenthetical disclosure on the Consolidated Balance Sheet.

(4) Includes MSRs of \$2.0 billion which are classified as Level 3 assets.

(5) Total recurring Level 3 assets were 0.51 percent of total consolidated assets, and total recurring Level 3 liabilities were 0.25 percent of total consolidated liabilities.

The following tables present a reconciliation of all assets and liabilities measured at fair value on a recurring basis using significant unobservable inputs (Level 3) during the three months ended March 31, 2019 and 2018 including net realized and unrealized gains (losses) included in earnings and accumulated OCI. Transfers into Level 3 occur primarily due to decreased price observability, and transfers out of Level 3 occur primarily due to increased price observability. Transfers occur on a regular basis for long-term debt instruments due to changes in the impact of unobservable inputs on the value of the embedded derivative in relation to the instrument as a whole.

Level 3 - Fair Value Measurements (1)

					G	ross					Change in Unrealized Gains
(Dollars in millions)	Balance January 1	Total Realized/Unrealized Gains (Losses) in Net Income (2)	Gains (Losses) in OCI (3)	Purchases	Sales	Issuances	Settlements	Gross Transfers into Level 3	Gross Transfers out of Level 3	Balance March 31	(Losses) in Net Income Related to Financial Instruments Still Held (2)
Three Months Ended March 31, 2019											
Trading account assets:											
Corporate securities, trading loans and other	\$ 1,558	\$ 3	\$ —	\$ 54	\$ (73)	\$ —	\$ (60)	\$ 139	\$ (193) \$	1,428	\$ (8)
Equity securities	276	2	_	18	(1)	_	(3)	2	(6)	288	2
Non-U.S. sovereign debt	465	8	(1)	_	_	_	_	_	_	472	8
Mortgage trading loans, ABS and other MBS	1,635	38	(1)	230	(337)	_	(9)	89	(135)	1,510	27
Total trading account assets	3,934	51	(2)	302	(411)	_	(72)	230	(334)	3,698	29
Net derivative assets (4)	(935)	(25)	_	111	(245)	_	(55)	122	9	(1,018)	(25)
AFS debt securities:											
Non-agency residential MBS	597	_	93	_	_	_	(7)	159	(261)	581	_
Non-U.S. securities	2	_	_	_	_	_	_	_	_	2	_
Other taxable securities	7	_	_	_	_	_	(4)	_	_	3	_
Total AFS debt securities	606		93	_	_	_	(11)	159	(261)	586	_
Other debt securities carried at fair value – Non-agency residential MBS	172	47	_	_	_	_	(1)	38	(32)	224	47
Loans and leases (5)	338	4	_	_	(15)	_	(10)	_	``	317	4
Loans held-for-sale (5,6)	542	12	(2)	10	(21)	11	(53)	59	_	558	4
Other assets (6, 7)	2,932	(74)	8	_	`_'	41	(158)	_	_	2,749	(128)
Trading account liabilities – Corporate securities and other	(18)	_	_	_	(3)	_	_	_	_	(21)	_
Long-term debt (5)	(817)	(46)	(1)	_	_	(3)	38	(61)	_	(890)	(46)
Three Months Ended March 31, 2018											
Trading account assets:											
Corporate securities, trading loans and other	\$ 1,864	\$ 9	\$ —	\$ 193	\$ (136)	\$	\$ (139)	\$ 103	\$ (178) \$	1,716	\$ (15)
Equity securities	235	8	_	6	(7)	_	_	1	(31)	212	8
Non-U.S. sovereign debt	556	16	2	_	(50)	_	(8)	_	(115)	401	16
Mortgage trading loans, ABS and other MBS	1,498	99	3	125	(320)	_	(69)	94	(58)	1,372	83
Total trading account assets	4,153	132	5	324	(513)	_	(216)	198	(382)	3,701	92
Net derivative assets (4)	(1,714)	495	_	153	(262)	_	202	71	(83)	(1,138)	517
AFS debt securities:	, , ,				, ,				, ,	,	
Mortgage-backed securities:											
Non-U.S. securities	25	_	_	_	_	_	(2)	_	_	23	_
Other taxable securities	509	1	_	_	_	_	(7)	_	(460)	43	_
Tax-exempt securities	469	_	_	_	_	_	_	_	(469)	_	_
Total AFS debt securities (8)	1,003	1					(9)		(929)	66	_
Loans and leases (5)	571	(16)	_	_	(4)	_	(25)	_	_	526	(16)
Loans held-for-sale (5,6)	690	24	_	12	_	_	(41)	_	_	685	21
Other assets (6, 7, 8)	2,425	192	_	_	(38)	29	(242)	929	_	3,295	120
Trading account liabilities – Corporate securities and other	(24)	1	_	_	(2)	(1)	_	_	_	(26)	1
Accrued expenses and other liabilities (5)	(8)	_	_	_		_	_	_	_	(8)	_
Long-term debt (5)	(1,863)	23	1	5					411	(-)	26

⁽¹⁾ Assets (liabilities). For assets, increase (decrease) to Level 3 and for liabilities, (increase) decrease to

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¹⁰ Assets (inabilities). For assets, increase (bedrease) to Level 3 and for inabilities, (increase) decrease to Level 3 and for inabilities, (increase) decrease to Level 3.

2 Includes gains (losses) reported in earnings in the following income statement line items: Trading account assets/liabilities - predominantly trading account income; Net derivative assets - primarily trading account income. For MSRs, the amounts reflect the securities carried at fair value - other income; Loans and leases - other income; Loans held-for-sale - other income; Other assets - primarily other income related to MSRs; Long-term debt - primarily trading account income. For MSRs, the amounts reflect the changes in modeled MSR fair value due to observed changes in interest rates, volatility, spreads and the shape of the forward swap curve, and periodic adjustments to the valuation model to reflect changes in the modeled relationships between inputs and projected cash flows, as well as changes in cash flow assumptions including cost to service.

3 Includes unrealized gains (losses) in OCI on AFS debt securities, foreign currency translation adjustments and the impact of changes in the Corporation's credit spreads on long-term debt accounted for under the fair value option. Total gains (losses) in OCI on AFS debt securities, foreign currency translation adjustments and the impact of changes in the Corporation's credit spreads on long-term debt accounted for under the fair value option. Total gains (losses) in OCI on AFS debt securities, foreign currency translation adjustments and the impact of changes in the Corporation's credit spreads on long-term debt accounted for under the fair value option.

4 Net derivative assets include derivative assets of \$3.5 billion and 45.5 billion and 45.5 billion and 45.7 billion and

sales.
(7) Settlements primarily represent the net change in fair value of the MSR asset due to the recognition of modeled cash flows and the passage of

⁽⁸⁾ Transfers out of AFS debt and into other assets relate to the reclassification of certain securities.

The following tables present information about significant unobservable inputs related to the Corporation's material categories of Level 3 financial assets and liabilities at March 31, 2019 and December 31, 2018.

Quantitative Information about Level 3 Fair Value Measurements at March 31, 2019

Dollars in millions)	Eniz	Value**		nputs Pennes of	Weinber
Financial Instrument	Fair Value	Valuation Technique	Significant Unobservable Inputs	Ranges of Inputs	Weighted Average (1)
oans and Securities (2)					
Instruments backed by residential real estate assets	\$ 1,583		Yield	0% to 25%	6%
Trading account assets - Mortgage trading loans, ABS and other MBS	455		Prepayment speed	0% to 25% CPR	15%
Loans and leases	317	Discounted cash flow,	Default rate	0% to 3% CDR	1%
Loans held-for-sale	1	Market comparables	Loss severity	0% to 48%	15%
AFS debt securities, primarily non-agency residential	586		Price	\$0 to \$150	\$100
Other debt securities carried at fair value - Non-agency residential	224				
Instruments backed by commercial real estate assets	\$ 355		Yield	0% to 25%	79
Trading account assets - Corporate securities, trading loans and other	232	Discounted cash flow	Price	\$0 to \$100	\$7
Trading account assets – Mortgage trading loans, ABS and other MBS	123				
Commercial loans, debt securities and other	\$ 3,157		Yield	1% to 15%	7%
Trading account assets - Corporate securities, trading loans and other	1,196		Prepayment speed	10% to 20%	15%
Trading account assets - Non-U.S. sovereign debt	472	Discounted cash flow, Market comparables	Default rate	3% to 4%	4%
Trading account assets – Mortgage trading loans, ABS and other MBS	932	Market comparables	Loss severity	35% to 40%	37%
Loans held-for-sale	557		Price	\$0 to \$143	\$60
Other assets, primarily auction rate securities	\$ 878		Price	\$10 to \$100	\$98
		Discounted cash flow,			
		Market comparables			
MSRs	\$ 1,871		Weighted-average life, fixed rate(5)	0 to 14 years	5 years
			Weighted-average life, variable rate (5)	0 to 9 years	3 year
		Discounted cash flow			
			Option-adjusted spread, fixed rate	7% to 14%	9%
			Option-adjusted spread, variable rate	9% to 15%	12%
Structured liabilities		T		1	
Long-term debt	\$ (890)	Discounted cash flow,	Equity correlation	10% to 100%	65%
		Market comparables,	Long-dated equity volatilities	4% to 91%	319
		Industry standard derivative pricing (3)	Price	\$0 to \$101	\$7
		p (-)			
et derivative assets		•			
Credit derivatives	\$ (197)		Yield	3% to 5%	4%
			Upfront points	0 to 100 points	68 points
		Discounted cash flow,	Prepayment speed	15% to 100% CPR	389
		Stochastic recovery correlation model	Default rate	1% to 4% CDR	2%
		correlation model			
			Loss severity	35%	n/a
			Price	\$0 to \$138	\$8
Equity derivatives	\$ (802)	Industry standard derivative	Equity correlation	10% to 100%	65%
		pricing (3)	Long-dated equity volatilities	4% to 91%	31%
Commodity derivatives	\$ 6	Discounted cash flow,	Natural gas forward price	\$1/MMBtu to \$8/MMBtu	\$3/MMBti
		Industry standard derivative	Correlation	25% to 85%	67%
		pricing (3)	Volatilities	15% to 115%	34%
Interest rate derivatives	\$ (25)		Correlation (IR/IR)	15% to 70%	54%
			Correlation (FX/IR)	0% to 46%	3%
		Industry standard derivative pricing (4)			
		,	Long-dated inflation rates	-18% to 38%	4%
			Long-dated inflation volatilities	0% to 1%	1%
Total net derivative assets	\$ (1,018)				

⁽¹⁾ For loans and securities, structured liabilities and net derivative assets, the weighted average is calculated based upon the absolute fair value of the

⁽¹⁾ For loans and securities, sucurities and net certainty assets, including MSRs, of \$2.7 billion, Cher assets – Corporate securities carried at fair value - Non-agency residential of \$2.24 million, Other assets, including MSRs, of \$2.7 billion, Loans and leases of \$31.7 million and LHFS of \$558 million.

Scholes.

(4) Includes models such as Monte Carlo simulation, Black-Scholes and other methods that model the joint dynamics of interest, inflation and foreign exchange

⁽⁵⁾ The weighted-average life is a product of changes in market rates of interest, prepayment rates and other model and cash flow assumptions.

CPR = Constant Prepayment Rate
CDR = Constant Default Rate
MMBtu = Million British thermal units
IR = Interest Rate
FX = Foreign Exchange
n/a = not applicable

Quantitative Information about Level 3 Fair Value Measurements at December 31, 2018

(Dollars in millions) Inputs Valuation Significant Unobservable Weighted Ranges of Financial Instrument Value Technique Inputs Inputs Average (1) Loans and Securities (2) Instruments backed by residential real estate assets 1,536 Yield 0% to 25% 8% 419 0% to 21% CPR 12% Trading account assets - Mortgage trading loans, ABS and other MBS 0% to 3% CDR 1% 338 Default rate Loans and leases Discounted cash flow, Loans held-for-sale Market comparables Loss severity 0% to 51% 17% \$72 606 Price \$0 to \$128 AFS debt securities, primarily non-agency residential Other debt securities carried at fair value - Non-agency residential 172 0% to 25% Instruments backed by commercial real estate assets 291 Yield 7% Trading account assets - Corporate securities, trading loans and other 200 Discounted cash flow Price \$0 to \$100 \$79 Trading account assets - Mortgage trading loans, ABS and other MBS 91 1% to 18% 13% Commercial loans, debt securities and other 3,489 Yield Trading account assets - Corporate securities, trading loans and other 1,358 Prepayment speed 10% to 20% 15% Discounted cash flow 4% Trading account assets - Non-U.S. sovereign debt 465 Default rate 3% to 4% Market comparables Trading account assets – Mortgage trading loans, ABS and other MBS 1.125 Loss severity 35% to 40% 38% \$68 Loans held-for-sale 541 Price \$0 to \$141 Other assets, primarily auction rate securities \$ 890 Price \$10 to \$100 \$95 Discounted cash flow Market comparables MSRs 2,042 0 to 14 years Weighted-average life, fixed rate (5) 5 years Weighted-average life, variable rate (5) 0 to 10 years 3 years Discounted cash flow 7% to 14% 9% Option-adjusted spread, fixed rate 9% to 15% 12% Option-adjusted spread, variable rate Structured liabilities Long-term debt (817) Equity correlation 11% to 100% 67% Discounted cash flow 32% Market comparables, Industry standard derivative Long-dated equity volatilities 4% to 84% Yield 7% to 18% 16% pricing (3) \$0 to \$100 \$72 Net derivative assets Credit derivatives 4% (565) Upfront points 0 points to 100 points 70 points Credit correlation 70% n/a Discounted cash flow Stochastic recovery 15% to 20% CPR 15% Prepayment speed correlation model Default rate 1% to 4% CDR 2% Loss severity 35% n/a Price \$0 to \$138 \$93 \$ 67% Equity derivatives (348)Equity correlation 11% to 100% Industry standard derivative pricing (3) ong-dated equity volatilities 4% to 84% 32% \$1/MMBtu to \$12/MMBtu \$3/MMBtu Commodity derivatives 10 Natural gas forward price Discounted cash flow Industry standard derivative Correlation 38% to 87% 71% pricing (3) 38% Interest rate derivatives \$ (32) Correlation (IR/IR) 15% to 70% 61% Correlation (FX/IR) 0% to 46% 1% Industry standard derivative pricing (4) -20% to 38% 2% 0% to 1% 1% Long-dated inflation volatilities

(935)

(5) The weighted-average life is a assumptions.
CPR = Constant Prepayment Rate
CDR = Constant Default Rate
MMBtu = Million British thermal units
IR = Interest Rate
FX = Foreign Exchange
n/a = not applicable

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⁽¹⁾ For loans and securities, structured liabilities and net derivative assets, the weighted average is calculated based upon the absolute fair value of the

⁽²⁾ The categories are aggregated based upon product type which differs from financial statement classification. The following is a reconciliation to the line items in the table on pag@0: Trading account assets – Corporate securities, trading loans and other of 5.1.6 billion, Other debt securities of \$606 million, Other debt securities carried at fair value - Non-agency residential of \$172 million, Other debt securities carried at fair value - Non-agency residential of \$172 million, Other Carlo simulation and Black-Scholer

⁽⁴⁾ Includes models such as Monte Carlo simulation. Black-Scholes and other methods that model the joint dynamics of interest, inflation and foreign exchange

rates.
(5) The weighted-average life is a product of changes in market rates of interest, prepayment rates and other model and cash flow

Uncertainty of Fair Value Measurements from Unobservable Inputs

For information on the types of instruments, valuation approaches and the impact of changes in unobservable inputs used in Level 3 measurements, see Note 20 - Fair Value Measurements to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

Sensitivity of Fair Value Measurements for Mortgage Servicing Rights

The weighted-average lives and fair value of MSRs are sensitive to changes in modeled assumptions. The weighted-average life is a product of changes in market rates of interest, prepayment rates and other model and cash flow assumptions. The weighted-average life represents the average period of time that the MSRs' cash flows are expected to be received. Absent other changes, an increase (decrease) to the weighted-average life would generally result in an increase (decrease) in the fair value of the MSRs. For example, as of March 31, 2019, a 10 percent or 20 percent decrease in prepayment rates, which impacts the weightedaverage life, could result in an increase in fair value of \$64 million

or \$134 million, while a 10 percent or 20 percent increase in prepayment rates could result in a decrease in fair value of \$59 million or \$114 million. A 100 bp or 200 bp decrease in option-adjusted spread (OAS) levels could result in an increase in fair value of \$55 million or \$114 million, while a 100 bp or 200 bp increase in OAS levels could result in a decrease in fair value of \$52 million or \$100 million. These sensitivities are hypothetical and actual amounts may vary materially. For additional information on variations in assumptions and sensitivities on MSRs, see Note 20 -Fair Value Measurements to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

Nonrecurring Fair Value

The Corporation holds certain assets that are measured at fair value, but only in certain situations (e.g., impairment) and these measurements are referred to herein as nonrecurring. The amounts below represent assets still held as of the reporting date for which a nonrecurring fair value adjustment was recorded during the three months ended March 31, 2019 and 2018.

Assets Measured at Fair Value on a Nonrecurring Basis

		March	31, 20	119	Thr	ee Months Ended March 31, 2019
(Dollars in millions)	Le	evel 2		Level 3		Gains (Losses)
Assets						
Loans held-for-sale	\$	55	\$	_	\$	(1)
Loans and leases (1)		_		120		(40)
Foreclosed properties (2, 3)		_		40		(13)
Other assets		61		6		(11)
		March	31, 20	18	Th	ree Months Ended March 31, 2018
Assets						
Loans held-for-sale	\$	13	\$	_	\$	(2)
Loans and leases (1)		_		273		(98)
Foreclosed properties (2, 3)		_		61		(17)
Other assets		47				(7)

⁽¹⁾ Includes \$18 million and \$45 million of losses on loans that were written down to a collateral value of zero during thethree months ended March 31, 2019 and

The table below presents information about significant unobservable inputs related to the Corporation's nonrecurring Level 3 financial assets and liabilities aMarch 31, 2019 and December 31, 2018. Loans and leases backed by residential real estate assets represent residential mortgages where the loan has been written down to the fair value of the underlying collateral.

Quantitative Information about Nonrecurring Level 3 Fair Value Measurements

					Inputs	
Financial Instrument	Fair	r Value	Valuation Technique	Significant Unobservable Inputs	Ranges of Inputs	Weighted Average (1)
(Dollars in millions)				March 31, 2019		
Loans and leases backed by residential real estate assets	\$	120	Market comparables	OREO discount	13% to 59%	25 %
				Costs to sell	8% to 26%	9 %
				December 31, 2018		
Loans and leases backed by residential real estate assets	\$	474	Market comparables	OREO discount	13% to 59%	25 %
						9 %
				Costs to sell	8% to 26%	

(1) The weighted average is calculated based upon the fair value of the loans.

<sup>2018.

(2)</sup> Amounts are included in other assets on the Consolidated Balance Sheet and represent the carrying value of foreclosed properties that were written down subsequent to their initial classification as foreclosed properties. Losses on foreclosed properties include losses recorded during the first 90 days after transfer of a loan to foreclosed properties.

(3) Excludes \$400 million and \$680 million of properties acquired upon foreclosure of certain government-guaranteed loans (principally FHA-insured loans) atMarch 31, 2019 and 2018.

NOTE 16 Fair Value Option

The Corporation elects to account for certain financial instruments under the fair value option. For more information on the primary financial instruments for which the fair value option elections have been made, see Note 21 - Fair Value Option to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K. The following tables provide information about the fair

value carrying amount and the contractual principal outstanding of assets and liabilities accounted for under the fair value option at March 31, 2019 and December 31, 2018, and information about where changes in the fair value of assets and liabilities accounted for under the fair value option are included in the Consolidated Statement of Income for the three months ended March 31, 2019 and 2018

Fair Value Option Elections

				March 31, 2019			De	cember 31, 2018	
(Dollars in millions)	Fair	Value Carrying Amount	Co	ntractual Principal Outstanding	air Value Carrying nount Less Unpaid Principal	Fair Value Carrying Amount		ntractual Principal Outstanding	Fair Value Carrying Amount Less Unpaid Principal
Federal funds sold and securities borrowed or purchased under agreements to resell	\$	59,557	\$	59,524	\$ 33	\$ 56,399	\$	56,376	\$ 23
Loans reported as trading account assets (1)		6,346		13,438	(7,092)	6,195		13,088	(6,893)
Trading inventory – other		16,322		n/a	n/a	13,778		n/a	n/a
Consumer and commercial loans		6,187		6,220	(33)	4,349		4,399	(50)
Loans held-for-sale (1)		2,547		3,799	(1,252)	2,942		4,749	(1,807)
Other assets		3		n/a	n/a	3		n/a	n/a
Long-term deposits		499		447	52	492		454	38
Federal funds purchased and securities loaned or sold under agreements to repurchase		26,609		26,614	(5)	28,875		28,881	(6)
Short-term borrowings		1,895		1,895	_	1,648		1,648	_
Unfunded loan commitments		106		n/a	n/a	169		n/a	n/a
Long-term debt (2)		31,625		31,990	(365)	27,689		29,198	(1,509)

⁽¹⁾ A significant portion of the loans reported as trading account assets and LHFS are distressed loans that were purchased at a deep discount to par, and the remainder are loans with a fair value near contractual principal

Gains (Losses) Relating to Assets and Liabilities Accounted for Under the Fair Value Option

			Three Months E	nded I	March 31		
		2019				2018	
(Dollars in millions)	ng Account ncome	Other Income	Total		Trading Account Income	Other Income	Total
Loans reported as trading account assets (1)	\$ 91	\$ _	\$ 91	\$	103	\$ _	\$ 103
Trading inventory – other (2)	2,544	_	2,544		595	_	595
Consumer and commercial loans (1)	1	18	19		106	(21)	85
Long-term debt (3, 4)	(1,080)	(23)	(1,103)		819	(41)	778
Other (5)	11	86	97		8	8	16
Total	\$ 1,567	\$ 81	\$ 1,648	\$	1,631	\$ (54)	\$ 1,577

NOTE 17 Fair Value of Financial Instruments

The following disclosures include financial instruments that are not carried at fair value or only a portion of the ending balance is carried at fair value on the Consolidated Balance Sheet. Certain loans, deposits, long-term debt and unfunded lending commitments are accounted for under the fair value option. For additional information, see Note 21 - Fair Value Option to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K

Fair Value of Financial Instruments

The carrying values and fair values by fair value hierarchy of certain financial instruments where only a portion of the ending balance was carried at fair value at March 31, 2019 and December 31, 2018 are presented in the following table.

outstanding.
(2) Includes structured liabilities with a fair value of\$31.3 billion and \$27.3 billion, and contractual principal outstanding of\$31.6 billion and \$28.8 billion at March 31, 2019 and December 31,

n/a = not applicable

 ⁽¹⁾ Gains (losses) related to borrower-specific credit risk were not significant.
 (2) The gains in trading account income are primarily offset by losses on trading liabilities that hedge these

assets.
(3) The majority of the net gains (losses) in trading account income relate to the embedded derivatives in structured liabilities and are offset by gains (losses) on derivatives and securities that hedge these

⁽s) The fingling of the fits gains (usses) in decirating account income relate to the embedded certainties and all office to gains (usses) or derivatives and securities that needs the result in the Corporation's own credit spreads and the amount recognized in accumulated OCI, see Note 10 – Accumulated Policy or Form 10-K.

(5) Includes gains (losses) on federal funds sold and securities borrowed or purchased under agreements to resell, LHFS, long-term deposits, federal funds purchased and securities loaned or sold under agreements to repurchase, short-term borrowings and unfunded loan commitments.

Fair Value of Financial Instruments

					Fair Value		
	Ca	rrying Value		Level 2		Level 3	Total
(Dollars in millions)				March :	31, 2019		
Financial assets							
Loans	\$	915,899	\$	60,803	\$	880,868	\$ 941,671
Loans held-for-sale		6,297		5,525		776	6,301
Financial liabilities							
Deposits (1)		1,379,337		1,379,240		_	1,379,240
Long-term debt		233,929		239,490		890	240,380
Commercial unfunded lending commitments (2)		908		106		4,747	4,853
				Decembe	r 31, 201	18	
Financial assets							
Loans	\$	911,520	\$	58,228	\$	859,160	\$ 917,388
Loans held-for-sale		10,367		9,592		775	10,367
Financial liabilities							
Deposits (1)		1,381,476		1,381,239		_	1,381,239
Long-term debt		229,392		230,019		817	230,836
Commercial unfunded lending commitments (2)		966		169		5,558	5,727

NOTE 18 Business Segment Information

The Corporation reports its results of operations through the following four business segments: Consumer Banking, Global Wealth & Investment Management, Global Banking and Global Markets, with the remaining operations recorded in All Other. For additional information, see Note 23 - Business Segment Information to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K. The following table presents net income (loss) and the components thereto (with

net interest income on an FTE basis for the business segments, All Other and the total Corporation) for the three months ended March 31, 2019 and 2018, and total assets at March 31, 2019 and 2018 for each business segment, as well as All Other, including a reconciliation of the four business segments' total revenue, net of interest expense, on an FTE basis, and net income to the Consolidated Statement of Income, and total assets to the Consolidated Balance Sheet.

Results of Business Segments and All Other

At and for the three months ended March 31	 Total Co	rporat	ion (1)	Consumer Banking					obal Wealth & Inv	vestment Managemen		
(Dollars in millions)	2019		2018		2019		2018		2019		2018	
Net interest income	\$ 12,528	\$	11,919	\$	7,106	\$	6,477	\$	1,684	\$	1,584	
Noninterest income	10,629		11,301		2,526		2,503		3,136		3,272	
Total revenue, net of interest expense	23,157		23,220		9,632		8,980		4,820		4,856	
Provision for credit losses	1,013		834		974		935		5		38	
Noninterest expense	13,224		13,842		4,359		4,548		3,426		3,580	
Income before income taxes	8,920		8,544		4,299		3,497		1,389		1,238	
Income tax expense	1,609		1,626		1,053		893		340		316	
Net income	\$ 7,311	\$	6,918	\$	3,246	\$	2,604	\$	1,049	\$	922	
Period-end total assets	\$ 2,377,164	\$	2,328,478	\$	794,510	\$	774,257	\$	296,785	\$	279,332	

	 Global Banking			Global Markets				All Other			
	 2019		2018		2019		2018		2019		2018
Net interest income	\$ 2,790	\$	2,679	\$	953	\$	1,020	\$	(5)	\$	159
Noninterest income	2,365		2,316		3,228		3,792		(626)		(582)
Total revenue, net of interest expense	5,155		4,995		4,181		4,812		(631)		(423)
Provision for credit losses	111		16		(23)		(3)		(54)		(152)
Noninterest expense	2,266		2,291		2,755		2,923		418		500
Income before income taxes	2,778		2,688		1,449		1,892		(995)		(771)
Income tax expense	750		699		413		492		(947)		(774)
Net income	\$ 2,028	\$	1,989	\$	1,036	\$	1,400	\$	(48)	\$	3
Period-end total assets	\$ 436,066	\$	425,328	\$	671,123	\$	648,605	\$	178,680	\$	200,956

⁽¹⁾ There were no material intersegment revenues.

⁽¹⁾ Includes demand deposits of \$517.6 billion and \$531.9 billion with no stated maturities at March 31, 2019 and December 31, 2018.

(2) The carrying value of commercial unfunded lending commitments is included in accrued expenses and other liabilities on the Consolidated Balance Sheet. The Corporation does not estimate the fair value of consumer unfunded lending commitments because, in many instances, the Corporation can reduce or cancel these commitments by providing notice to the borrower. For more information on commitments, see Note 11 – Commitments and Contingencies

The table below presents noninterest income and the components thereto for thethree months ended March 31, 2019 and 2018 for each business segment, All Other and the total Corporation. For more information, see Note 2 – Net Interest Income and Noninterest Income

Noninterest Income by Business Segment and All Other

	 Total Corporation Consumer Banking				Global Wealth & Investment Management						
	 Three Months Ended March 31										
(Dollars in millions)	 2019	2018		2019		2018		2019			2018
Fees and commissions:											
Card income											
Interchange fees	\$ 896	\$	914	\$	728	\$	758	\$	17	\$	10
Other card income	479		488		469		476		9		11
Total card income	1,375		1,402		1,197		1,234		26		21
Service charges											
Deposit-related fees	1,580		1,646		1,020		1,044		18		19
Lending-related fees	259		275		_		_		_		
Total service charges	1,839		1,921		1,020		1,044		18		19
Investment and brokerage services											
Asset management fees	2,440		2,564		34		36		2,414		2,528
Brokerage fees	920		1,100		39		46		428		512
Total investment and brokerage services	3,360		3,664		73		82		2,842		3,040
Investment banking fees											
Underwriting income	666		740		_		_		80		84
Syndication fees	255		317		_		_		_		_
Financial advisory services	343		296		_				_		
Total investment banking fees	1,264		1,353		_		_		80		84
Total fees and commissions income	7,838		8,340		2,290		2,360		2,966		3,164
Trading account income	2,338		2,553		2		2		34		29
Other income	453		408		234		141		136		79
Total noninterest income	\$ 10,629	\$	11,301	\$	2,526	\$	2,503	\$	3,136	\$	3,272

	 Global Banking Global Markets						All Other (1)				
	Three Months Ended March 31										
	2019	20)18		2019		2018	2	019		2018
Fees and commissions:											
Card income											
Interchange fees	\$ 129	\$	127	\$	21	\$	20	\$	1	\$	(1)
Other card income	2		1		(1)		_		_		_
Total card income	131		128		20		20		1		(1)
Service charges											
Deposit-related fees	498		538		38		40		6		5
Lending-related fees	215		225		44		50		_		_
Total service charges	713		763		82		90		6		5
Investment and brokerage services											
Asset management fees	_		_		_		_		(8)		_
Brokerage fees	9		25		444		488		_		29
Total investment and brokerage services	9		25		444		488		(8)		29
Investment banking fees											
Underwriting income	280		310		367		430		(61)		(84)
Syndication fees	126		158		130		159		(1)		_
Financial advisory services	303		276		40		20		_		_
Total investment banking income	709		744		537		609		(62)		(84)
Total fees and commissions fees	1,562		1,660		1,083		1,207		(63)		(51)
Trading account income	50		61		2,082		2,557		170		(96)
Other income	753		595		63		28		(733)		(435)
Total noninterest income	\$ 2,365	\$	2,316	\$	3,228	\$	3,792	\$	(626)	\$	(582)

⁽¹⁾ All Other includes eliminations of intercompany transactions.

Business Segment Reconciliations

		Three Months	Ended March 31		
in millions)		2019		2018	
Segments' total revenue, net of interest expense	\$	23,788	\$	23,643	
Adjustments (1):					
ALM activities		12		26	
Liquidating businesses, eliminations and other		(643)		(449)	
FTE basis adjustment		(153)		(150)	
Consolidated revenue, net of interest expense	\$	23,004	\$	23,070	
Segments' total net income		7,359		6,915	
Adjustments, net-of-tax (1):					
ALM activities		18		28	
Liquidating businesses, eliminations and other		(66)		(25)	
Consolidated net income	\$	7,311	\$	6,918	

		2019		2018
Segments' total assets	\$	2,198,484	\$	2,127,522
Adjustments (1):				
ALM activities, including securities portfolio		671,751		659,849
Elimination of segment asset allocations to match liabilities		(566,787)		(543,322)
Other		73,716		84,429
Consolidated total assets	\$	2,377,164	\$	2,328,478

⁽¹⁾ Adjustments include consolidated income, expense and asset amounts not specifically allocated to individual business segments

Glossary

Alt-A Mortgage – A type of U.S. mortgage that is considered riskier than A-paper, or "prime," and less risky than "subprime," the riskiest category. Typically, Alt-A mortgages are characterized by borrowers with less than full documentation, lower credit scores and higher LTVs.

Assets Under Management (AUM)— The total market value of assets under the investment advisory and/or discretion of *GWIM* which generate asset management fees based on a percentage of the assets' market values. AUM reflects assets that are generally managed for institutional, high net worth and retail clients, and are distributed through various investment products including mutual funds, other commingled vehicles and separate accounts.

Banking Book – All on- and off-balance sheet financial instruments of the Corporation except for those positions that are held for trading purposes.

Brokerage and Other Assets – Non-discretionary client assets which are held in brokerage accounts or held for safekeeping.

Committed Credit Exposure – Any funded portion of a facility plus the unfunded portion of a facility on which the lender is legally bound to advance funds during a specified period under prescribed conditions.

Credit Derivatives – Contractual agreements that provide protection against a specified credit event on one or more referenced obligations.

Credit Valuation Adjustment (CVA) – A portfolio adjustment required to properly reflect the counterparty credit risk exposure as part of the fair value of derivative instruments.

Debit Valuation Adjustment (DVA) – A portfolio adjustment required to properly reflect the Corporation's own credit risk exposure as part of the fair value of derivative instruments and/or structured liabilities.

Funding Valuation Adjustment (FVA) – A portfolio adjustment required to include funding costs on uncollateralized derivatives and derivatives where the Corporation is not permitted to use the collateral it receives.

Interest Rate Lock Commitment (IRLC) – Commitment with a loan applicant in which the loan terms are guaranteed for a designated period of time subject to credit approval.

Letter of Credit – A document issued on behalf of a customer to a third party promising to pay the third party upon presentation of specified documents. A letter of credit effectively substitutes the issuer's credit for that of the customer.

Loan-to-value (LTV) – A commonly used credit quality metric. LTV is calculated as the outstanding carrying value of the loan divided by the estimated value of the property securing the loan.

Margin Receivable – An extension of credit secured by eligible securities in certain brokerage accounts.

Matched Book – Repurchase and resale agreements or securities borrowed and loaned transactions where the overall asset and liability position is similar in size and/or maturity. Generally, these are entered into to accommodate customers where the Corporation earns the interest rate spread.

Mortgage Servicing Rights (MSR) – The right to service a mortgage loan when the underlying loan is sold or securitized. Servicing includes collections for principal, interest and escrow payments from borrowers and accounting for and remitting principal and interest payments to investors.

Net Interest Yield – Net interest income divided by average total interest-earning assets.

Nonperforming Loans and Leases – Includes loans and leases that have been placed on nonaccrual status, including nonaccruing loans whose contractual terms have been restructured in a manner that grants a concession to a borrower experiencing financial difficulties.

Operating Margin – Income before income taxes divided by total revenue, net of interest expense.

Prompt Corrective Action (PCA) – A framework established by the U.S. banking regulators requiring banks to maintain certain levels of regulatory capital ratios, comprised of five categories of capitalization: "well capitalized," "adequately capitalized," "undercapitalized," "significantly undercapitalized" and "critically undercapitalized." Insured depository institutions that fail to meet certain of these capital levels are subject to increasingly strict limits on their activities, including their ability to make capital distributions, pay management compensation, grow assets and take other actions.

Subprime Loans – Although a standard industry definition for subprime loans (including subprime mortgage loans) does not exist, the Corporation defines subprime loans as specific product offerings for higher risk borrowers.

Troubled Debt Restructurings (TDRs) – Loans whose contractual terms have been restructured in a manner that grants a concession to a borrower experiencing financial difficulties. Certain consumer loans for which a binding offer to restructure has been extended are also classified as TDRs.

Value-at-Risk (VaR) – VaR is a model that simulates the value of a portfolio under a range of hypothetical scenarios in order to generate a distribution of potential gains and losses. VaR represents the loss the portfolio is expected to experience with a given confidence level based on historical data. A VaR model is an effective tool in estimating ranges of potential gains and losses on our trading portfolios.

Acronyms

ABS	Asset-backed securities	HQLA	High Quality Liquid Assets
AFS	Available-for-sale	нтм	Held-to-maturity
ALM	Asset and liability management	IRLC	Interest rate lock commitment
AUM	Assets under management	ISDA	International Swaps and Derivatives Association, Inc.
BAMLI DAC	Bank of America Merrill Lynch International Designated Activity	LCR	Liquidity Coverage Ratio
	Company	LHFS	Loans held-for-sale
BANA	Bank of America, National Association	LIBOR	London InterBank Offered Rate
внс	Bank holding company	LTV	Loan-to-value
BofASE	BofA Securities Europe SA	MBS	Mortgage-backed securities
bps	basis points	MD&A	Management's Discussion and Analysis of Financial Condition and
CCAR	Comprehensive Capital Analysis and Review		Results of Operations
CDO	Collateralized debt obligation	MLGWM	Merrill Lynch Global Wealth Management
CET1	Common equity tier 1	MLI	Merrill Lynch International
CLTV	Combined loan-to-value	MLPCC	Merrill Lynch Professional Clearing Corp
CVA	Credit valuation adjustment	MLPF&S	Merrill Lynch, Pierce, Fenner & Smith Incorporated
DVA	Debit valuation adjustment	MSA	Metropolitan Statistical Area
EPS	Earnings per common share	MSR	Mortgage servicing right
EU	European Union	OAS	Option-adjusted spread
FDIC	Federal Deposit Insurance Corporation	OCI	Other comprehensive income
FHA	Federal Housing Administration	OREO	Other real estate owned
FHLB	Federal Home Loan Bank	отс	Over-the-counter
FHLMC	Freddie Mac	OTTI	Other-than-temporary impairment
FICC	Fixed-income, currencies and commodities	PCA	Prompt Corrective Action
FICO	Fair Isaac Corporation (credit score)	PCI	Purchased credit-impaired
FNMA	Fannie Mae	RMBS	Residential mortgage-backed securities
FTE	Fully taxable-equivalent	RSU	Restricted stock unit
FVA	Funding valuation adjustment	SBLC	Standby letter of credit
GAAP	Accounting principles generally accepted in the United States of	SEC	Securities and Exchange Commission
	America	SLR	Supplementary leverage ratio
GLS	Global Liquidity Sources	TDR	Troubled debt restructurings
GNMA	Government National Mortgage Association	TLAC	Total loss-absorbing capacity
GSE	Government-sponsored enterprise	VaR	Value-at-Risk
G-SIB	Global systemically important bank	VIE	Variable interest entity
CIAZIBA	Clabal Maaltha O laccastanaant Managanaant		

Global Wealth & Investment Management

Home equity line of credit

GWIM

HELOC

Part II. Other Information

Bank of America Corporation and Subsidiaries

Item 1. Legal Proceedings

See Litigation and Regulatory Matters in Note 11 - Commitments and Contingencies to the Consolidated Financial Statements, which is incorporated by reference in this Item 1, for litigation and regulatory disclosure that supplements the disclosure in Note 12 - Commitments and Contingencies to the Consolidated Financial Statements of the Corporation's 2018 Annual Report on Form 10-K.

Item 1A. Risk Factors

There are no material changes from the risk factors set forth under Part 1, Item 1A. Risk Factorsof the Corporation's 2018 Annual Report on Form 10-K

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds

The table below presents share repurchase activity for the three months ended March 31, 2019. The primary source of funds for cash distributions by the Corporation to its shareholders is dividends received from its banking subsidiaries. Each of the banking subsidiaries is subject to various regulatory policies and requirements relating to the payment of dividends, including requirements to maintain capital above regulatory minimums. All of the Corporation's preferred stock outstanding has preference over the Corporation's common stock with respect to payment of dividends.

(Dollars in millions, except per share information; shares in thousands)	Total Common Shares Repurchased (1)	Weighted-Average Per Share Price	Total Shares Purchased as Part of Publicly Announced Programs	Remaining Buyback Authority Amounts (2)
January 1 - 31, 2019	61,447	\$ 27.51	61,437	\$ 8,594
February 1 - 28, 2019	107,054	28.89	77,345	8,867
March 1 - 31, 2019	83,151	28.89	81,188	6,521
Three months ended March 31, 2019	251,652	28.55	219,970	

⁽¹⁾ Includes shares of the Corporation's common stock acquired by the Corporation in connection with satisfaction of tax withholding obligations on vested restricted stock or restricted stock units and certain forfeitures and terminations of employment-related

The Corporation did not have any unregistered sales of equity securities during thethree months ended March 31, 2019

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⁽¹⁾ Includes shares of the Corporation's common stock acquired by the Corporation in connection with satisfaction or tax witinnouring obligations on vestion resultance stock of the Corporation and Corporation and Corporation's common stock acquired by the Corporation and Corporation an

Item 6. Exhibits

			Incorporated by Reference			
Exhibit No.	Description	Notes	Form	Exhibit	Filing Date	File No.
3(a)	Amended and Restated Certificate of Incorporation as in effect on the date hereof		10-Q	3(a)	7/30/18	1-6523
3(b)	Amended and Restated Bylaws of the Corporation as in effect on the date hereof		8-K	3.1	3/20/15	1-6523
10(a)	Form of Time-Based Restricted Stock Units Award Agreement (February 2019) between the Corporation and certain executive officers of the Corporation, including certain Named Executive Officers	1,2				
10(b)	Form of Performance Restricted Stock Units Award Agreement (February 2019) between the Corporation and certain executive officers of the Corporation, including certain Named Executive Officers	1,2				
10(c)	ESA Retention Agreement dated March 15, 2004 between the Corporation and Dean C. Athanasia	1,2				
11	Earnings Per Share Computation – included in Note 13 – Earnings Per Common Share to the Consolidated Financial Statements	1				
31(a)	Certification of the Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002	1				
31(b)	Certification of the Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002	1				
32(a)	Certification of the Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002	1				
32(b)	Certification of the Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002	1				
101.INS	XBRL Instance Document	3				
101.SCH	XBRL Taxonomy Extension Schema Document	1				
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document	1				
101.LAB	XBRL Taxonomy Extension Label Linkbase Document	1				
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document	1				
101.DEF	XBRL Taxonomy Extension Definitions Linkbase Document	1				

Signature

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

> **Bank of America Corporation** Registrant

Date: April 26, 2019 /s/ Rudolf A. Bless

Rudolf A. Bless Chief Accounting Officer

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⁽¹⁾ Filed herewith.
(2) Exhibit is a management contract or compensatory plan or arrangement
(3) The instance document does not appear in the interactive data file because its XBRL tags are embedded within the inline XBRL document.



Exhibit 10(a)

Form of Time-Based Restricted Stock Units Award Agreement for Grants on or after February 15, 2019

Award Agreement

This document contains your Award Agreement under the Bank of America Corporation Key Employee Equity Plan.

What you need to do

- 1. Review the Award Agreement to ensure you understand its provisions. With each award you receive, provisions of your Award Agreement may change so it is important to review your Award Agreement.
- 2. Print the Award Agreement and file it with your important papers.
- 3. Accept your Award Agreement through the online acceptance process.*
- 4. Designate your beneficiary on the Benefits OnLine® Beneficiary tab.
- 5. More detailed information about competitive businesses can be found on HR Connect under Money / Pay / Incentive plans & awards / How Performance Plan awards are paid, to the extent that the competition restriction is applicable to you, as described in this Award Agreement.

*If you do not accept your Award Agreement through the online acceptance process by [date], or such other date that may be communicated, Bank of America will automatically accept the Award Agreement on your behalf.

Key Employee Equity Plan Restricted Stock Units Award Agreement

Granted To:
Grant Date:
Grant Type:
Grant Code:
Number Granted:

Note: The number of Restricted Stock Units is based on a "divisor price" of \$price], which is the ten (10)-day average closing price of Bank of America Corporation common stock for the ten (10) business days immediately preceding and including [date].

This Restricted Stock Units Award Agreement and all Exhibits hereto (the "Agreement") is made between Bank of America Corporation, a Delaware corporation ("Bank of America"), and you, an employee of Bank of America or one of its Subsidiaries.

Bank of America sponsors the Bank of America Corporation Key Employee Equity Plan (the "Stock Plan"). A Prospectus describing the Stock Plan has been delivered to you. The Stock Plan itself is available upon request, and its terms and provisions are incorporated herein by reference. When used herein, the terms which are defined in the Stock Plan shall have the meanings given to them in the Stock Plan, as modified herein (if applicable).

The Restricted Stock Units covered by this Agreement are being awarded to you in connection with your participation in the Performance Year [year] program and the Bank of America Corporation Executive Incentive Compensation Plan, subject to the following terms and provisions.

- Subject to the terms and conditions of the Stock Plan and this Agreement, Bank of America awards to you the number of
 Restricted Stock Units shown above. Each Restricted Stock Unit shall have a value equal to the Fair Market Value of one (1) share
 of Bank of America common stock.
- 2. You acknowledge having read the Prospectus and agree to be bound by all the terms and conditions of the Stock Plan and this Agreement.
- 3. The Restricted Stock Units covered by this Award shall become earned by, and payable to, you in accordance with the terms and conditions of the Stock Plan and this Agreement in the amounts and on the dates shown on the enclosed Exhibit A.
- 4. If a cash dividend is paid with respect to Bank of America common stock, a cash dividend equivalent equal to the total cash dividend you would have received had your Restricted Stock Units been actual Shares will be accumulated and paid in cash through payroll when the Restricted Stock Units become earned and payable. Dividend equivalents are credited with interest at the three (3)-year constant maturity Treasury rate in effect on the grant date noted above until the payment date.
- 5. You agree that you shall comply with (or provide adequate assurance as to future compliance with) all applicable securities laws, as determined by Bank of America, as a condition precedent to the delivery of any Shares pursuant to this Agreement. In addition,

- you agree that, upon request, you will furnish a letter agreement providing that you will (i) not distribute or resell any of said Shares in violation of the U.S. Securities Act of 1933, as amended, (ii) indemnify and hold Bank of America harmless against all liability for any such violation and (iii) accept all liability for any such violation.
- 6. You agree that the Award covered by this Agreement is subject to the Incentive Compensation Recoupment Policy set forth in the Bank of America Corporate Governance Guidelines. To the extent allowed by and consistent with applicable law and any applicable limitations period, if it is determined at any time that you have engaged in Detrimental Conduct or engaged in any hedging or derivative transactions involving Bank of America common stock in violation of the Bank of America Corporation Code of Conduct that would undermine the long-term performance incentives created by the Award, Bank of America will be entitled to recover from you in its sole discretion some or all of the Shares (and any related dividend equivalents) paid to you pursuant to this Agreement. You recognize that if you engage in Detrimental Conduct or any hedging or derivative transactions involving Bank of America common stock, the losses to Bank of America and/or its Subsidiaries may amount to the full value of any Shares (and any related dividend equivalents) paid to you pursuant to this Agreement. In addition, the Award is subject to the requirements of (i) Section 954 of the Dodd-Frank Wall Street Reform and Consumer Protection Act (regarding recovery of erroneously awarded compensation) and any implementing rules and regulations thereunder, (ii) similar rules under the laws of any other jurisdiction and (iii) any policies adopted by Bank of America to implement such requirements, all to the extent determined by Bank of America in its discretion to be applicable to you.
- 7. You may designate a beneficiary to receive payment in connection with the Restricted Stock Units awarded hereunder in the event of your death while in service with Bank of America or its Subsidiaries in accordance with Bank of America's beneficiary designation procedures, as in effect from time to time. Any beneficiary designation in effect at the time of your termination of employment with Bank of America and its Subsidiaries (other than a termination of employment due to your death) will remain in effect following your termination of employment unless you change your beneficiary designation or it otherwise ceases to be enforceable and/or valid in accordance with Bank of America's

beneficiary designation procedures, as in effect from time to time. If you do not designate a beneficiary or if your designated beneficiary does not survive you, then your beneficiary will be your estate.

- 8. The existence of this Award shall not affect in any way the right or power of Bank of America or its stockholders to make or authorize any or all adjustments, recapitalizations, reorganizations or other changes in Bank of America's capital structure or its business, or any merger or consolidation of Bank of America, or any issue of bonds, debentures, preferred or prior preference stocks ahead of or convertible into, or otherwise affecting the Bank of America common stock or the rights thereof, or the dissolution or liquidation of Bank of America, or any sale or transfer of all or any part of its assets or business, or any other corporate act or proceeding, whether of a similar character or otherwise.
- 9. Bank of America may, in its sole discretion, decide to deliver any documents related to this Award or future Awards that may be granted under the Stock Plan by electronic means or request your consent to participate in the Stock Plan by electronic means. You hereby consent to receive such documents by electronic delivery and, if requested, agree to participate in the Stock Plan through an online or electronic system established and maintained by Bank of America or a third party designated by Bank of America.

Any notice which either party hereto may be required or permitted to give to the other shall be in writing and may be delivered personally, by intraoffice mail, by fax, by electronic mail or other electronic means, or via a postal service, postage prepaid, to such electronic mail or postal address and directed to such person as Bank of America may notify you from time to time; and to you at your electronic mail or postal address as shown on the records of Bank of America from time to time or as otherwise determined appropriate by Bank of America, in its sole discretion, or at such other electronic mail or postal address as you, by notice to Bank of America, may designate in writing from time to time.

10. You acknowledge that Bank of America has not provided you with any legal advice and that you have the right to consult with your personal legal advisor prior to accepting this Agreement.

11. You acknowledge that, regardless of any action taken by Bank of America or your employer, the ultimate liability for all income tax, social insurance, payroll tax, fringe benefits tax, payment on account or other tax-related items (or, if applicable, your portion thereof) related to your participation in the Stock Plan ("Tax-Related Items") is and remains your responsibility and may exceed the amount (if any) withheld by Bank of America or your employer. You further acknowledge that Bank of America and/or your employer (i) make no representations or undertakings regarding the treatment of any Tax-Related Items in connection with any aspect of the Restricted Stock Units, including but not limited to the grant and vesting of the Restricted Stock Units, your satisfaction of any age and/or length of service criteria, the payment of any Restricted Stock Units, the subsequent sale of any Shares acquired upon the vesting of the Restricted Stock Units and the receipt of any dividends and/or dividend equivalents, (ii) do not commit to and are under no obligation to structure the terms of the Award or any aspect of the Restricted Stock Units to reduce or eliminate your liability for Tax-Related Items or achieve any specific tax result and (iii) do not commit to and are under no obligation to use a withholding method for Tax-Related Items which results in the most favorable or any particular tax treatment for you. Further, if you have become subject to Tax-Related Items in more than one jurisdiction, you acknowledge that Bank of America or your employer (or former employer, as applicable) may be required to withhold or account for Tax-Related Items in more than one jurisdiction.

In the event Bank of America determines that it and/or your employer must withhold any Tax-Related Items, you agree as a condition of the grant of the Restricted Stock Units to make arrangements satisfactory to Bank of America and/or your employer to enable it to satisfy all withholding requirements by all legal means, including, but not limited to, withholding any applicable Tax-Related Items from the pay-out of the Restricted Stock Units. In addition, you authorize Bank of America and/or your employer to fulfill its withholding obligations by all legal means, including, but not limited to, withholding Tax-Related Items from your wages, salary or other cash compensation Bank of America or your employer pays to you, withholding Tax-Related Items from the cash proceeds, if any, received upon any sale of any Shares received in payment for your Restricted Stock Units and, at the time of payment, withholding Shares to meet withholding obligations for Tax-Related Items, in an amount which does not exceed the maximum statutory tax rates in

the applicable jurisdictions. Bank of America may refuse to pay any earned Restricted Stock Units if you fail to comply with any obligations in connection with the Tax-Related Items.

- 12. The validity, construction and effect of this Agreement are governed by, and subject to, the laws of the State of Delaware and the laws of the United States, as provided in the Stock Plan, unless otherwise required by applicable law. For purposes of litigating any dispute that arises directly or indirectly from the relationship of the parties evidenced by this Award or this Agreement, the parties hereby submit to and consent to the exclusive jurisdiction of North Carolina and agree that such litigation shall be conducted solely in the courts of Mecklenburg County, North Carolina or the federal courts for the United States for the Western District of North Carolina, where this Award is made and/or to be performed, and no other courts, unless otherwise required by applicable law.
- 13. In the event any provision of this Agreement shall be held illegal or invalid for any reason, the illegality or invalidity shall not affect the remaining parts of the Agreement, and the Agreement shall be construed and enforced as if the illegal or invalid provision had not been included. This Agreement constitutes the final understanding between you and Bank of America regarding the Restricted Stock Units. Any prior agreements, commitments or negotiations concerning the Restricted Stock Units are superseded. Subject to the terms of the Stock Plan, this Agreement may only be amended by a written instrument signed by both parties.
- 14. If you move to any country outside of the United States during the term of your Award, additional terms and conditions may apply to your Award. Bank of America reserves the right to impose other requirements on the Award to the extent Bank of America determines it is necessary or advisable for legal or administrative reasons and to require you to sign any additional agreements or undertakings that may be necessary to accomplish the foregoing.

IN WITNESS WHEREOF, Bank of America has caused this Agreement to be executed by its duly authorized officer, and you have hereunto set your hand, all effective as of the Grant Date listed above.

Brian T. Moynihan

Chairman and Chief Executive Officer

Exhibit A

Bank of America Corporation Key Employee Equity Plan

PAYMENT OF RESTRICTED STOCK UNITS

(a) <u>PAYMENT SCHEDULE</u>. Subject to the provisions of paragraphs (b), (c), (d) and (e) below, the Restricted Stock Units (and any related dividend equivalents) shall be earned and payable in three (3) equal annual installments if you remain employed with Bank of America and its Subsidiaries through each of the payment dates as follows.

	Number of Restricted Stock Units That Become Earned and Payable	
[date]	one-third (1/3) of Award	
[date]	one-third (1/3) of Award	
[date]	one-third (1/3) of Award	

^{*}Payment will be made as soon as administratively practicable, generally within thirty (30) days after the payment date.

- (b) <u>IMPACT OF TERMINATION OF EMPLOYMENT ON RESTRICTED STOCK UNITS</u>. If your employment with Bank of America and its Subsidiaries terminates prior to any of the above payment dates, then any unearned Restricted Stock Units (and any related dividend equivalents) shall become earned and payable or be canceled depending on the reason for termination as follows.
- (i) <u>Death</u>. Any unearned Restricted Stock Units (and any related dividend equivalents) shall become immediately earned and payable as of the date of your termination of employment if your termination is due to your death. Payment will be made as soon as administratively practicable, generally within thirty (30) days after notification of termination from the payroll system.
- (ii) <u>Disability</u>. If your employment is terminated by your employer due to your Disability, then any unearned Restricted Stock Units (and any related dividend equivalents) shall continue to become earned and payable at such time as provided in the Payment Schedule described in paragraph (a) above (without regard to whether you are employed by Bank of America or its Subsidiaries), subject to your complying with the covenants set forth in paragraph (d) below and subject to the performance-based cancellation provision set forth in paragraph (e) below. Notwithstanding anything in this paragraph (b)(ii) to the contrary, upon your death following a

termination of employment by your employer due to Disability, any unearned Restricted Stock Units (and any related dividend equivalents) that are continuing to become earned and payable in accordance with the provisions of this paragraph (b)(ii), but have not yet become earned and payable, shall become immediately earned and payable as of the date of your death, and payment will be made as soon as administratively practicable following your death.

- (iii) <u>Termination by your Employer with Cause</u>. If your employment is terminated by your employer with Cause, then any Restricted Stock Units (and any related dividend equivalents) that were not already earned and payable pursuant to paragraph (a) above as of the date of your termination of employment shall be canceled as of that date.
- (iv) Change in Control. Notwithstanding anything in this Agreement to the contrary, if (A) a Change in Control occurs and (B) on or after the Change in Control and on or before the second anniversary of the Change in Control either (1) your employment is terminated without Cause or (2) you terminate your employment with Bank of America or its Subsidiaries for Good Reason, then any unearned Restricted Stock Units (and any related dividend equivalents) shall become immediately earned as of the date of such termination and shall be payable at such time as provided in the Payment Schedule described in paragraph (a) above, without regard to the covenants set forth in paragraph (b) below or the performance-based cancellation provision set forth in paragraph (e) below. Notwithstanding anything in this paragraph (b)(iv) to the contrary, upon your death following (A) a termination of your employment without Cause on or before the second anniversary of a Change in Control or (B) a termination of your employment with Bank of America or its Subsidiaries for Good Reason on or before the second anniversary of a Change in Control, any Restricted Stock Units (and any related dividend equivalents) that are continuing to become payable in accordance with the provisions of this paragraph (b)(iv), but have not yet become payable, shall become immediately payable as of the date of your death, and payment will be made as soon as administratively practicable following your death.
- (v) <u>All Other Terminations</u>. Unless your termination of employment is a Qualifying Termination as described below, in the case of All Other Terminations, any Restricted Stock Units (and any related dividend equivalents) that were not already earned and payable pursuant to paragraph (a) above as of the date of your termination of employment shall be canceled as of that date. [For Mr. Montag: Notwithstanding the foregoing or any other provision herein to the contrary, in accordance with the terms of your offer letter dated May 1, 2008, if your employment is terminated by Bank of America without "Cause" or you terminate your employment for "Good Reason" (as such terms are

defined in your offer letter), then any unearned Restricted Stock Units (and any related dividend equivalents) shall continue to become earned and payable in accordance with the Payment Schedule set forth in paragraph (a) above (without regard to whether you are employed by Bank of America and its Subsidiaries), subject to your complying with the covenants set forth in paragraph (d) below and to the performance condition set forth in paragraph (e) below.]

(c) <u>QUALIFYING TERMINATION</u>. If your employment terminates for any reason other than your death, Disability, Cause or in connection with a Change in Control as described in paragraph (b)(iv) above and your termination of employment is a Qualifying Termination, then any unearned Restricted Stock Units (and any related dividend equivalents) shall continue to become earned and payable in accordance with the Payment Schedule set forth in paragraph (a) above subject to the performance-based cancellation provision set forth in paragraph (e) below, provided that (i) to the extent permissible under applicable law, you do not engage in Competition during such period, (ii) you comply with the covenants described in paragraph (d) below and (iii) prior to each payment date, you provide Bank of America with a certification that you have not engaged in Competition to the extent the Competition restriction in (i) above is applicable.

To be effective, such certification must be provided on such form, at such time and pursuant to such procedures as Bank of America shall establish from time to time. If Bank of America determines in its reasonable business judgment that you have failed to satisfy any of the foregoing requirements, then any unearned Restricted Stock Units (and any related dividend equivalents) shall be immediately canceled as of the date of such determination. In addition, from time to time following your Qualifying Termination, Bank of America may require you to further certify that you are not engaging in Competition, and if you fail to fully cooperate with any such requirement Bank of America may determine that you are engaging in Competition. Notwithstanding anything in this paragraph (c) to the contrary, upon your death following a Qualifying Termination, any unearned Restricted Stock Units (and any related dividend equivalents) that are continuing to become earned and payable in accordance with the provisions of this paragraph (c), but have not yet become earned and payable, shall become immediately earned and payable as of the date of your death, and payment will be made as soon as administratively practicable following your death. Notwithstanding anything in this Agreement to the contrary:

(i) if you are a permanent resident of California or you are a tax resident of California who is assigned to perform services for Bank of America or any Subsidiary from an office located in

California, the Competition restriction and the certification requirement described in this paragraph (c) will not apply to this Award; and

(ii) if you live or work in Massachusetts, the Competition restriction and the certification requirement described in this paragraph (c) will only apply for one year following the date of your termination of employment.

(d) <u>COVENANTS</u>.

- (i) Non-Solicitation. You agree that during any period in which Restricted Stock Units (and any related dividend equivalents) remain payable, (A) you will not directly or indirectly solicit or recruit for employment or encourage to leave employment with Bank of America or its Subsidiaries, on your own behalf or on behalf of any other person or entity other than Bank of America or its Subsidiaries, any person who is an employee of Bank of America or its Subsidiaries and (B) to the extent permissible under applicable law, you will not, directly or indirectly, on your own behalf or on behalf of any other person or entity other than Bank of America or its Subsidiaries, solicit any client or customer of Bank of America or its Subsidiaries which you actively solicited or with whom you worked or otherwise had material contact in the course of your employment with Bank of America and its Subsidiaries. Notwithstanding anything in this Agreement to the contrary, if (1) you are a permanent resident of California or (2) you are a tax resident of California who is assigned to perform services for Bank of America or any Subsidiary from an office located in California, the solicitation restriction described in (B) above will not apply to this Award.
- (ii) <u>Detrimental Conduct</u>. You agree that during any period in which Restricted Stock Units (and any related dividend equivalents) remain payable, you will not engage in Detrimental Conduct.
- (iii) <u>Hedging or Derivative Transactions</u>. You agree that during any period in which Restricted Stock Units (and any related dividend equivalents) remain payable, you will not engage in any hedging or derivative transactions involving Bank of America common stock in violation of the Bank of America Corporation Code of Conduct that would undermine the long-term performance incentive created by the Restricted Stock Units.
- (iv) <u>Remedies</u>. Payment of Restricted Stock Units (and any related dividend equivalents) in accordance with the Payment Schedule set forth in paragraph (a) above is specifically conditioned on the requirement that at all times prior to each payment, you do not engage in

solicitation, Detrimental Conduct or hedging or derivative transactions, as described in paragraphs (d)(i), (ii) and (iii), during such period. If Bank of America determines in its reasonable business judgment that you have failed to satisfy such requirements, then any Restricted Stock Units (and any related dividend equivalents) that have not yet been paid as of the date of such determination shall be canceled as of such date of determination.

[For Non-GBAM:

- (e) PERFORMANCE-BASED CANCELLATION PROVISION. In order to appropriately balance risk and reward, unpaid Restricted Stock Units (and any related dividend equivalents) may be canceled if a loss occurs outside of the ordinary course of business. For Bank of America or a line of business, a "loss" means a pre-tax loss for a fiscal year (as determined under U.S. generally accepted accounting principles in effect as of the close of such fiscal year). A loss in the "ordinary course of business" means a loss resulting from a planned winding down of a business or legacy position. A loss outside of the ordinary course includes (without limitation) losses such as those resulting from risk or compliance violations, deliberate or grossly negligent failures to perform your job duties, or any loss that materially impairs Bank of America's solvency, liquidity, or capital distribution plans. If a loss outside of the ordinary course of business occurs:
- (i) at Bank of America, if you are the Chief Executive Officer, Chief Financial Officer, any Chief Executive Officer direct report who does not lead a line of business, or are any employee who is part of a staff (such as global technology operations, global strategy and marketing, etc.) or key control function (such as audit, compliance, human resources, legal, risk, etc.);
- (ii) at Bank of America or your line of business, if you are a senior leader who leads a line of business (e.g., are president or head of such line of business); or
 - (iii) at your line of business, if you are any employee other than a senior leader who leads a line of business;

then your accountability for such loss will be determined, taking into account such factors as (i) the magnitude of the loss (including positive or negative variance from plan); (ii) your degree of involvement (including such factors as your current or former leadership role within Bank of America or the line of business, and the degree to which you were involved in decisions that are determined to have contributed to the loss); (iii) your performance; and (iv) such other factors as deemed appropriate. The Compensation and Benefits Committee (for executive officers), Management

Compensation Committee (for Band 1 employees) or other management team designated for such purpose, together with key control functions, will review the loss and your accountability. The Compensation and Benefits Committee (for executive officers), Management Compensation Committee (for Band 1 employees) or other management team designated for such purpose will then make a final determination to either take no action or to cancel some or all of your Award. All such determinations will be final and binding.]

[For GBAM:

- (e) <u>PERFORMANCE-BASED CANCELLATION PROVISION</u>. In order to appropriately balance risk and reward, unpaid Restricted Stock Units (and any related dividend equivalents) may be canceled if a loss occurs outside of the ordinary course of business. For a line of business, sub-line of business or division, a "loss" means a pre-tax loss for a fiscal year (as determined under U.S. generally accepted accounting principles in effect as of the close of such fiscal year). For an individual, a "loss" means that the aggregate profit and loss attributable to your activities is negative. A loss in the "ordinary course of business" means a loss resulting from a planned winding down of a business or legacy position, or a loss that is de minimis (e.g., a loss from a short-dated trading position that is within desk strategy and risk limits and which, aggregated with losses across all positions, is less than \$1 million). A loss outside of the ordinary course includes (without limitation) losses such as those resulting from complex or high-risk trading strategies, risk or compliance violations, deliberate or grossly negligent failures to perform your job duties, or any loss that materially impairs Bank of America's solvency, liquidity, or capital distribution plans. If a loss outside of the ordinary course of business occurs:
- (i) at Global Banking and Markets, Global Markets, or Global Banking, if you are a senior business leader within the applicable group;
- (ii) at a sub-line of business (e.g., Global Corporate and Investment Banking, FICC Trading) or division (e.g., Global Rates, Global Credit and Special Situations) within Global Banking and Markets, if you are a manager within the applicable sub-line of business or division; or
 - (iii) at your individual level;

then your accountability for such loss will be determined, taking into account such factors as (i) the magnitude of the loss (including positive or negative variance from plan); (ii) your degree of

involvement (including such factors as your current or former leadership role within Global Banking and Markets, and the degree to which you were involved in decisions that are determined to have contributed to the loss); (iii) your performance; and (iv) such other factors as deemed appropriate. The management team designated for such purpose, together with key control functions, will review the loss and your accountability. The management team designated for such purpose will then make a final determination to either take no action or to cancel some or all of your Award. All such determinations will be final and binding.]

- (f) <u>FORM OF PAYMENT</u>. Payment of Restricted Stock Units shall be made in the form of one (1) share of Bank of America common stock for each Restricted Stock Unit that is payable.
 - (g) <u>DEFINITIONS</u>. For purposes hereof, the following terms shall have the following meanings.

All Other Terminations means any termination of your employment with Bank of America and its Subsidiaries, whether initiated by you or your employer, other than (i) a Qualifying Termination, (ii) a termination due to your death or Disability, (iii) a termination with Cause and (iv) a termination in connection with a Change in Control as described in paragraph (b)(iv) above.

Cause shall be defined as that term is defined in your offer letter or other applicable employment agreement; or, if there is no such definition, "Cause" means a termination of your employment with Bank of America and its Subsidiaries if it occurs in conjunction with a determination by your employer that you have (i) committed an act of fraud or dishonesty in the course of your employment; (ii) been convicted of (or plead no contest with respect to) a crime constituting a felony or a crime of comparable magnitude under applicable law (as determined by Bank of America in its sole discretion); (iii) committed an act or omission which causes you or Bank of America or its Subsidiaries to be in violation of federal or state securities laws, rules or regulations, and/or the rules of any exchange or association of which Bank of America or its Subsidiaries is a member, including statutory disqualification; (iv) failed to perform your job duties where such failure is injurious to Bank of America or any Subsidiary, or to Bank of America's or such Subsidiary's business interests or reputation; (v) materially breached any written policy applicable to your employment with Bank of America or any of its Subsidiaries including, but not limited to, the Bank of America Corporation Code of Conduct and General Policy on Insider Trading; or (vi) made an unauthorized disclosure of any confidential or proprietary information of Bank of America or its Subsidiaries or have committed any

other material violation of Bank of America's written policy regarding Confidential and Proprietary Information.

<u>Competition</u> means your being engaged, directly or indirectly, whether as a director, officer, employee, consultant, agent or otherwise, with a business entity that is or later becomes designated as a "Competitive Business" based on the criteria effective as of the date of your termination of employment. If you live or work in Massachusetts, the scope of Competition will be as broad as necessary to protect the legitimate business interests of Bank of America and its Subsidiaries.

Detrimental Conduct means your serious misconduct or unethical behavior, including any one of the following: (i) any conduct that would constitute Cause; (ii) the commission of a criminal act by you, whether or not performed in the workplace, that subjects, or if generally known, would subject Bank of America or its Subsidiaries to public ridicule or embarrassment, or other improper or intentional conduct causing reputational harm to Bank of America, its Subsidiaries, or a client of Bank of America or its Subsidiaries; (iii) the breach of a fiduciary duty owed to Bank of America or its Subsidiaries or a client or former client of Bank of America or its Subsidiaries; (iv) intentional violation, or grossly negligent disregard, of Bank of America's or its Subsidiaries' policies, rules and procedures, specifically including, but not limited to any of your obligations under the Bank of America Corporation Code of Conduct and workplace policies; or (v) you taking or maintaining trading positions that result in a need to restate financial results in a subsequent reporting period or that result in a significant financial loss to Bank of America or its Subsidiaries during or after the performance year.

Disability is as defined in the Stock Plan.

Good Reason means, provided that you have complied with the Good Reason Process, the occurrence of any of the following events without your consent: (i) a material diminution in your responsibility, authority or duty; (ii) a material diminution in your base salary except for across-the-board salary reductions based on Bank of America and its Subsidiaries' financial performance similarly affecting all or substantially all management employees of Bank of America and its Subsidiaries; or (iii) the relocation of the office at which you were principally employed immediately prior to a Change in Control to a location more than fifty (50) miles from the location of such office, or your being required to be based anywhere other than such office, except to the extent you were

not previously assigned to a principal location and except for required travel on your employer's business to an extent substantially consistent with your business travel obligations at the time of the Change in Control.

Good Reason Process means that (i) you reasonably determine in good faith that a Good Reason condition has occurred; (ii) you notify Bank of America and its Subsidiaries in writing of the occurrence of the Good Reason condition within sixty (60) days of such occurrence; (iii) you cooperate in good faith with Bank of America and its Subsidiaries' efforts, for a period of not less than thirty (30) days following such notice (the "Cure Period"), to remedy the condition; (iv) notwithstanding such efforts, the Good Reason condition continues to exist following the Cure Period; and (v) you terminate your employment for Good Reason within sixty (60) days after the end of the Cure Period. If Bank of America or its Subsidiaries cures the Good Reason condition during the Cure Period, and you terminate your employment with Bank of America and its Subsidiaries due to such condition (notwithstanding its cure), then you will not be deemed to have terminated your employment for Good Reason.

Qualifying Termination means your termination of employment with Bank of America and its Subsidiaries after you have (i) a length of service of at least ten (10) years and (ii) a combined age and length of service equal to at least sixty (60). Your length of service will be determined by Bank of America, in its sole discretion, and, in that regard if you participate in a tax-qualified 401(k) plan sponsored by Bank of America or its Subsidiaries, your length of service shall be your "Vesting Service" under the tax-qualified 401(k) plan in which you participate. [For Mr. Montag: Notwithstanding the foregoing, your termination of employment shall be deemed a Qualifying Termination if it occurs on or after the third anniversary of your date of hire.]



Exhibit 10(b)

Form of Performance Restricted Stock Units Award Agreement for Grants on or after February 15, 2019

Award Agreement

Granted To: Grant Date: Grant Type:

This document contains your Award Agreement under the Bank of America Corporation Key Employee Equity Plan.

What you need to do

- 1. Review the Award Agreement to ensure you understand its provisions. With each award you receive, provisions of your Award Agreement may change so it is important to review your Award Agreement.
- 2. Print the Award Agreement and file it with your important papers.
- 3. Accept your Award Agreement through the online acceptance process.*
- 4. Designate your beneficiary on the Benefits OnLine® Beneficiary tab.
- 5. More detailed information about competitive businesses can be found on HR Connect under Money / Pay / Incentive plans & awards / How Performance Plan awards are paid, to the extent that the competition restriction is applicable to you, as described in this Award Agreement.

*If you do not accept your Award Agreement through the online acceptance process by [date], or such other date that may be communicated, Bank of America will automatically accept the Award Agreement on your behalf.

Key Employee Equity Plan Performance Restricted Stock Units Award Agreement

Grant Code: Number Granted:
Note: The number of Restricted Stock Units is based on a "divisor price" of[price], which is the ten (10)-day average closing price of Bank of Am

<u>Note:</u> The number of Restricted Stock Units is based on a "divisor price" of *[price]*, which is the ten (10)-day average closing price of Bank of America Corporation common stock for the ten (10) business days immediately preceding and including *[date]*.

This Performance Restricted Stock Units Award Agreement and all Exhibits hereto (the "Agreement") is made between Bank of America Corporation, a Delaware corporation ("Bank of America"), and you, an employee of Bank of America or one of its Subsidiaries.

Bank of America sponsors the Bank of America Corporation Key Employee Equity Plan (the "Stock Plan"). A Prospectus describing the Stock Plan has been delivered to you. The Stock Plan itself is available upon request, and its terms and provisions are incorporated herein by reference. When used herein, the terms which are defined in the Stock Plan shall have the meanings given to them in the Stock Plan, as modified herein (if applicable).

The Restricted Stock Units covered by this Agreement are being awarded to you in connection with your participation in the Performance Year [year] program and the Bank of America Corporation Executive Incentive Compensation Plan, subject to the following terms and provisions.

- Subject to the terms and conditions of the Stock Plan and this Agreement, Bank of America awards to you the number of
 Restricted Stock Units shown above. Each Restricted Stock Unit shall have a value equal to the Fair Market Value of one (1) share
 of Bank of America common stock.
- 2. You acknowledge having read the Prospectus and agree to be bound by all the terms and conditions of the Stock Plan and this Agreement.
- 3. The Restricted Stock Units covered by this Award shall become earned by, and payable to, you in accordance with the terms and conditions of the Stock Plan and this Agreement in the amounts and on the dates shown on the enclosed Exhibit A.
- 4. If a cash dividend is paid with respect to Bank of America common stock, a cash dividend equivalent equal to the total cash dividend you would have received had your Restricted Stock Units been actual Shares will be accumulated and paid in cash through payroll when the Restricted Stock Units become earned and payable. Dividend equivalents are credited with interest at the three (3)-year constant maturity Treasury rate in effect on the grant date noted above until the payment date.
- 5. You agree that you shall comply with (or provide adequate assurance as to future compliance with) all applicable securities laws, as determined by Bank of America, as a

condition precedent to the delivery of any Shares pursuant to this Agreement. In addition, you agree that, upon request, you will furnish a letter agreement providing that you will (i) not distribute or resell any of said Shares in violation of the U.S. Securities Act of 1933, as amended, (ii) indemnify and hold Bank of America harmless against all liability for any such violation and (iii) accept all liability for any such violation.

- 6. You agree that the Award covered by this Agreement is subject to the Incentive Compensation Recoupment Policy set forth in the Bank of America Corporate Governance Guidelines. To the extent allowed by and consistent with applicable law and any applicable limitations period, if it is determined at any time that you have engaged in Detrimental Conduct or engaged in any hedging or derivative transactions involving Bank of America common stock in violation of the Bank of America Corporation Code of Conduct that would undermine the long-term performance incentives created by the Award, Bank of America will be entitled to recover from you in its sole discretion some or all of the Shares (and any related dividend equivalents) paid to you pursuant to this Agreement. You recognize that if you engage in Detrimental Conduct or any hedging or derivative transactions involving Bank of America common stock, the losses to Bank of America and/or its Subsidiaries may amount to the full value of any Shares (and any related dividend equivalents) paid to you pursuant to this Agreement. In addition, the Award is subject to the requirements of (i) Section 954 of the Dodd-Frank Wall Street Reform and Consumer Protection Act (regarding recovery of erroneously awarded compensation) and any implementing rules and regulations thereunder, (ii) similar rules under the laws of any other jurisdiction and (iii) any policies adopted by Bank of America to implement such requirements, all to the extent determined by Bank of America in its discretion to be applicable to you.
- 7. You may designate a beneficiary to receive payment in connection with the Restricted Stock Units awarded hereunder in the event of your death while in service with Bank of America or its Subsidiaries in accordance with Bank of America's beneficiary designation procedures, as in effect from time to time. Any beneficiary designation in effect at the time of your termination of employment with Bank of America and its Subsidiaries (other than a termination of employment due to your death) will remain in effect following your termination of employment unless you change your beneficiary designation or it

otherwise ceases to be enforceable and/or valid in accordance with Bank of America's beneficiary designation procedures, as in effect from time to time. If you do not designate a beneficiary or if your designated beneficiary does not survive you, then your beneficiary will be your estate.

- 8. The existence of this Award shall not affect in any way the right or power of Bank of America or its stockholders to make or authorize any or all adjustments, recapitalizations, reorganizations or other changes in Bank of America's capital structure or its business, or any merger or consolidation of Bank of America, or any issue of bonds, debentures, preferred or prior preference stocks ahead of or convertible into, or otherwise affecting the Bank of America common stock or the rights thereof, or the dissolution or liquidation of Bank of America, or any sale or transfer of all or any part of its assets or business, or any other corporate act or proceeding, whether of a similar character or otherwise.
- 9. Bank of America may, in its sole discretion, decide to deliver any documents related to this Award or future Awards that may be granted under the Stock Plan by electronic means or request your consent to participate in the Stock Plan by electronic means. You hereby consent to receive such documents by electronic delivery and, if requested, agree to participate in the Stock Plan through an online or electronic system established and maintained by Bank of America or a third party designated by Bank of America.

Any notice which either party hereto may be required or permitted to give to the other shall be in writing and may be delivered personally, by intraoffice mail, by fax, by electronic mail or other electronic means, or via a postal service, postage prepaid, to such electronic mail or postal address and directed to such person as Bank of America may notify you from time to time; and to you at your electronic mail or postal address as shown on the records of Bank of America from time to time or as otherwise determined appropriate by Bank of America, in its sole discretion, or at such other electronic mail or postal address as you, by notice to Bank of America, may designate in writing from time to time.

10. You acknowledge that Bank of America has not provided you with any legal advice and that you have the right to consult with your personal legal advisor prior to accepting this Agreement.

11. You acknowledge that, regardless of any action taken by Bank of America or your employer, the ultimate liability for all income tax, social insurance, payroll tax, fringe benefits tax, payment on account or other tax-related items (or, if applicable, your portion thereof) related to your participation in the Stock Plan ("Tax-Related Items") is and remains your responsibility and may exceed the amount (if any) withheld by Bank of America or your employer. You further acknowledge that Bank of America and/or your employer (i) make no representations or undertakings regarding the treatment of any Tax-Related Items in connection with any aspect of the Restricted Stock Units, including but not limited to the grant and vesting of the Restricted Stock Units, your satisfaction of any age and/or length of service criteria, the payment of any Restricted Stock Units, the subsequent sale of any Shares acquired upon the vesting of the Restricted Stock Units and the receipt of any dividends and/or dividend equivalents, (ii) do not commit to and are under no obligation to structure the terms of the Award or any aspect of the Restricted Stock Units to reduce or eliminate your liability for Tax-Related Items or achieve any specific tax result and (iii) do not commit to and are under no obligation to use a withholding method for Tax-Related Items which results in the most favorable or any particular tax treatment for you. Further, if you have become subject to Tax-Related Items in more than one jurisdiction, you acknowledge that Bank of America or your employer (or former employer, as applicable) may be required to withhold or account for Tax-Related Items in more than one jurisdiction.

In the event Bank of America determines that it and/or your employer must withhold any Tax-Related Items, you agree as a condition of the grant of the Restricted Stock Units to make arrangements satisfactory to Bank of America and/or your employer to enable it to satisfy all withholding requirements by all legal means, including, but not limited to, withholding any applicable Tax-Related Items from the pay-out of the Restricted Stock Units. In addition, you authorize Bank of America and/or your employer to fulfill its withholding obligations by all legal means, including, but not limited to, withholding Tax-Related Items from your wages, salary or other cash compensation Bank of America or your employer pays to you, withholding Tax-Related Items from the cash proceeds, if any, received upon any sale of any Shares received in payment for your Restricted Stock Units and, at the time of payment, withholding Shares to meet withholding obligations for Tax-Related Items, in an amount which does not exceed the maximum statutory tax rates in

- the applicable jurisdictions. Bank of America may refuse to pay any earned Restricted Stock Units if you fail to comply with any obligations in connection with the Tax-Related Items.
- 12. The validity, construction and effect of this Agreement are governed by, and subject to, the laws of the State of Delaware and the laws of the United States, as provided in the Stock Plan, unless otherwise required by applicable law. For purposes of litigating any dispute that arises directly or indirectly from the relationship of the parties evidenced by this Award or this Agreement, the parties hereby submit to and consent to the exclusive jurisdiction of North Carolina and agree that such litigation shall be conducted solely in the courts of Mecklenburg County, North Carolina or the federal courts for the United States for the Western District of North Carolina, where this Award is made and/or to be performed, and no other courts, unless otherwise required by applicable law.
- 13. In the event any provision of this Agreement shall be held illegal or invalid for any reason, the illegality or invalidity shall not affect the remaining parts of the Agreement, and the Agreement shall be construed and enforced as if the illegal or invalid provision had not been included. This Agreement constitutes the final understanding between you and Bank of America regarding the Restricted Stock Units. Any prior agreements, commitments or negotiations concerning the Restricted Stock Units are superseded. Subject to the terms of the Stock Plan, this Agreement may only be amended by a written instrument signed by both parties.
- 14. If you move to any country outside of the United States during the term of your Award, additional terms and conditions may apply to your Award. Bank of America reserves the right to impose other requirements on the Award to the extent Bank of America determines it is necessary or advisable for legal or administrative reasons and to require you to sign any additional agreements or undertakings that may be necessary to accomplish the foregoing.

IN WITNESS WHEREOF, Bank of America has caused this Agreement to be executed by its duly authorized officer, and you have hereunto set your hand, all effective as of the Grant Date listed above.

Brian T. Moynihan

Chairman and Chief Executive Officer

Exhibit A

Bank of America Corporation Key Employee Equity Plan

PAYMENT OF PERFORMANCE RESTRICTED STOCK UNITS

- (a) PERFORMANCE VESTING SCHEDULE AND SETTLEMENT DATE
- (i) <u>Performance Vesting Schedule and Settlement Date</u>. Subject to the additional conditions set forth in paragraph (a)(iv) below, the number of Restricted Stock Units that are earned for the Performance Period with respect to each metric equals (A) the total number of Restricted Stock Units granted times (B) the applicable weighting times (C) the percentage earned in accordance with the following table, rounded down to the next whole unit.

3-year Average ROA (50% Weighting)		3-year Average Growth in Adjusted TBV (50% Weighting)	
ROA	% Earned Based on Goal Achievement	Adjusted TBV	% Earned Based on Goal Achievement
Less than 60 bps 60 bps 80 bps 100 bps	0% 33-1/3% 66-2/3% 100%	Less than 5.25% 5.25% 7.00% 8.50%	0% 33-1/3% 66-2/3% 100%

The 3-year Average ROA and the 3-year Average Growth in Adjusted TBV will be determined in accordance with conventional rounding principles to the nearest basis point (for 3-year Average ROA) and the nearest one-hundredth of a percent (for 3-year Average Growth in Adjusted TBV) (e.g., 60.4 bps will be rounded down to 60 bps for 3-year Average ROA and 5.256% will be rounded up to 5.26% for 3-year Average Growth in Adjusted TBV). The percentage earned for performance between levels at or above the threshold level (i.e., sixty (60) bps for 3-year Average ROA and 5.25% for 3-year Average Growth in Adjusted TBV) shall be interpolated on a straight line basis. No interpolation shall apply for performance below the threshold level.

(ii) <u>Determination</u>. The determination as to whether, and the extent to which, the performance vesting requirements of this paragraph (a) have been satisfied for the Performance Period shall be made as soon as practicable after the end of the Performance Period with an effective date of [date], and such results must be certified in writing by the Committee before settlement.

- (iii) Settlement Date. The "Settlement Date" for any portion of the Award that satisfies the performance vesting requirements under this paragraph (a) shall be [date], provided, however, that in case of termination of employment due to your death as set forth in paragraph (b)(i) below, or in the case of your death following termination of employment as set forth in paragraph (b)(ii), (b)(iv) or (c) below, the "Settlement Date" shall be the date of your death. On the Settlement Date, to the extent earned, the Restricted Stock Units payable as of the Settlement Date shall be settled 100% in Shares. Settlement shall occur as soon as administratively practicable after the Settlement Date, generally within thirty (30) days.
- (iv) <u>Additional Conditions</u>. For any portion of the Award payable as of the Settlement Date, you must remain employed with Bank of America and its Subsidiaries through the Settlement Date except as otherwise provided in paragraphs (b) and (c) below. In addition, payment as of the Settlement Date is subject to your complying with the covenants set forth in paragraph (d) below and the additional performance-based cancellation provision set forth in paragraph (e) below.
- (b) <u>IMPACT OF TERMINATION OF EMPLOYMENT ON RESTRICTED STOCK UNITS</u>. If your employment with Bank of America and its Subsidiaries terminates prior to the Settlement Date, then the Restricted Stock Units (together with any related dividend equivalents) shall become earned and payable or be canceled depending on the reason for termination as follows.
- (i) <u>Death</u>. The Restricted Stock Units (and any related dividend equivalents) shall become immediately earned and payable as of the date of your termination of employment if your termination is due to your death. Payment will be made as soon as administratively practicable, generally within thirty (30) days after notification of termination from the payroll system.
- (ii) <u>Disability</u>. If your employment is terminated by Bank of America or its Subsidiaries due to your Disability, then the Restricted Stock Units (and any related dividend equivalents) shall continue to become earned and payable in accordance with paragraph (a) above (without regard to whether you are employed by Bank of America or its Subsidiaries as of the Settlement Date), subject to your complying with the covenants set forth in paragraph (d) below and to the additional performance-based cancellation provision set forth in paragraph (e) below. Notwithstanding anything in this paragraph (b)(ii) to the contrary, upon your death following a termination of employment by Bank of America or its Subsidiaries due to your Disability, the Restricted Stock Units (and any related dividend equivalents) that are continuing to become earned and payable in accordance with the

provisions of this paragraph (b)(ii), but have not yet become earned and payable, shall become immediately earned and payable as of the date of your death, and payment will be made as soon as administratively practicable following your death.

- (iii) <u>Termination by your Employer with Cause</u>. If your employment is terminated by your employer with Cause, then the Restricted Stock Units (and any related dividend equivalents) shall be immediately canceled as of the date of your termination of employment.
- (iv) Change in Control. Notwithstanding anything in this Agreement to the contrary, if (A) a Change in Control occurs and (B) on or after the Change in Control and on or before the second anniversary of the Change in Control either (1) your employment is terminated without Cause or (2) you terminate your employment with Bank of America or its Subsidiaries for Good Reason, then the Restricted Stock Units (and any related dividend equivalents) shall become immediately earned as of the date of such termination and shall be payable as of the Settlement Date, without regard to the covenants set forth in paragraph (d) below, but subject to the additional performance-based cancellation provision set forth in paragraph (e) below. Notwithstanding anything in this paragraph (b)(iv) to the contrary, upon your death following (A) a termination of your employment without Cause on or before the second anniversary of a Change in Control or (B) a termination of your employment with Bank of America or its Subsidiaries for Good Reason on or before the second anniversary of a Change in Control, the Restricted Stock Units (and any related dividend equivalents) that are continuing to become payable in accordance with the provisions of this paragraph (b)(iv), but have not yet become payable, shall become immediately payable as of the date of your death, and payment will be made as soon as administratively practicable following your death.
- (v) All Other Terminations. In case of All Other Terminations, unless your termination of employment is a Qualifying Termination as described below, the Restricted Stock Units (and any related dividend equivalents) shall be immediately canceled as of the date of your termination of employment. [For Mr. Montag: Notwithstanding the foregoing or any other provision herein to the contrary, in accordance with the terms of your offer letter dated May 1, 2008, if your employment is terminated by Bank of America without "Cause" or you terminate your employment for "Good Reason" (as such terms are defined in your offer letter), then the Restricted Stock Units (and any related dividend equivalents) shall continue to become earned and payable in accordance with paragraph (a) above (without regard to whether you are employed by Bank of America and its Subsidiaries as of the Settlement Date), subject to your complying with the covenants set forth in

paragraph (d) below and to the additional performance-based cancellation provision set forth in paragraph (e) below.]

(c) <u>QUALIFYING TERMINATION</u>. If your employment terminates for any reason other than your death, Disability, Cause or in connection with a Change in Control as described in paragraph (b)(iv) above and your termination of employment is a Qualifying Termination, then the Restricted Stock Units (and any related dividend equivalents) shall continue to become earned and payable in accordance with paragraph (a) above (without regard to whether you are employed by Bank of America and its Subsidiaries as of the Settlement Date), subject to the performance-based cancellation provision set forth in paragraph (e) below, provided that (i) to the extent permissible under applicable law, you do not engage in Competition during such period, (ii) you comply with the covenants described in paragraph (d) below and (iii) prior to March 1 of each year during which your Restricted Stock Units remain payable, you provide Bank of America with a certification that you have not engaged in Competition to the extent the Competition restriction in (i) above is applicable.

To be effective, such certification must be provided on such form, at such time and pursuant to such procedures as Bank of America shall establish from time to time. If Bank of America determines in its reasonable business judgment that you have failed to satisfy any of the foregoing requirements, then the Restricted Stock Units (and any related dividend equivalents) shall be immediately canceled as of the date of such determination. In addition, from time to time following your Qualifying Termination, Bank of America may require you to further certify that you are not engaging in Competition, and if you fail to fully cooperate with any such requirement Bank of America may determine that you are engaging in Competition. Notwithstanding anything in this paragraph (c) to the contrary, upon your death following a Qualifying Termination, the Restricted Stock Units (and any related dividend equivalents) that are continuing to become earned and payable in accordance with the provisions of this paragraph (c), but have not yet become earned and payable, shall become immediately earned and payable as of the date of your death, and payment will be made as soon as administratively practicable following your death.

Notwithstanding anything in this Agreement to the contrary:

(i) if you are a permanent resident of California or you are a tax resident of California who is assigned to perform services for Bank of America or any Subsidiary from an office located in California, the Competition restriction and the certification requirement described in this paragraph (c) will not apply to this Award; and

(ii) if you live or work in Massachusetts, the Competition restriction and the certification requirement described in this paragraph (c) will only apply for one year following the date of your termination of employment.

(d) <u>COVENANTS</u>.

- (i) Non-Solicitation. You agree that during any period in which Restricted Stock Units (and any related dividend equivalents) remain payable, (A) you will not directly or indirectly solicit or recruit for employment or encourage to leave employment with Bank of America or its Subsidiaries, on your own behalf or on behalf of any other person or entity other than Bank of America or its Subsidiaries, any person who is an employee of Bank of America or its Subsidiaries and (B) to the extent permissible under applicable law, you will not, directly or indirectly, on your own behalf or on behalf of any other person or entity other than Bank of America or its Subsidiaries, solicit any client or customer of Bank of America or its Subsidiaries which you actively solicited or with whom you worked or otherwise had material contact in the course of your employment with Bank of America and its Subsidiaries. Notwithstanding anything in this Agreement to the contrary, if (1) you are a permanent resident of California or (2) you are a tax resident of California who is assigned to perform services for Bank of America or any Subsidiary from an office located in California, the solicitation restriction described in (B) above will not apply to this Award.
- (ii) <u>Detrimental Conduct</u>. You agree that during any period in which Restricted Stock Units (and any related dividend equivalents) remain payable, you will not engage in Detrimental Conduct.
- (iii) <u>Hedging or Derivative Transactions</u>. You agree that during any period in which Restricted Stock Units (and any related dividend equivalents) remain payable, you will not engage in any hedging or derivative transactions involving Bank of America common stock in violation of the Bank of America Corporation Code of Conduct that would undermine the long-term performance incentive created by the Restricted Stock Units.
- (iv) <u>Remedies.</u> Payment of Restricted Stock Units (and any related dividend equivalents) on the Settlement Date is specifically conditioned on the requirement that at all times prior to such Settlement Date, you do not engage in solicitation, Detrimental Conduct or hedging or derivative transactions, as described in paragraphs (d)(i), (ii) and (iii), during such period. If Bank of America

determines in its reasonable business judgment that you have failed to satisfy such requirements, then the Restricted Stock Units (and any related dividend equivalents) as of the date of such determination shall be canceled as of such date of determination.

- (e) <u>PERFORMANCE-BASED CANCELLATION PROVISION</u>. In order to appropriately balance risk and reward, unpaid Restricted Stock Units (and any related dividend equivalents) may be canceled if a loss occurs outside of the ordinary course of business. For Bank of America or a line of business, a "loss" means a pre-tax loss for a fiscal year (as determined under U.S. generally accepted accounting principles in effect as of the close of such fiscal year). A loss in the "ordinary course of business" means a loss resulting from a planned winding down of a business or legacy position. A loss outside of the ordinary course includes (without limitation) losses such as those resulting from risk or compliance violations, deliberate or grossly negligent failures to perform your job duties, or any loss that materially impairs Bank of America's solvency, liquidity, or capital distribution plans. If a loss outside of the ordinary course of business occurs:
- (i) at Bank of America, if you are the Chief Executive Officer, Chief Financial Officer, any Chief Executive Officer direct report who does not lead a line of business, or are any employee who is part of a staff (such as global technology operations, global strategy and marketing, etc.) or key control function (such as audit, compliance, human resources, legal, risk, etc.);
- (ii) at Bank of America or your line of business, if you are a senior leader who leads a line of business (e.g., are president or head of such line of business); or
 - (iii) at your line of business, if you are any employee other than a senior leader who leads a line of business;

then your accountability for such loss will be determined, taking into account such factors as (i) the magnitude of the loss (including positive or negative variance from plan); (ii) your degree of involvement (including such factors as your current or former leadership role within Bank of America or the line of business, and the degree to which you were involved in decisions that are determined to have contributed to the loss); (iii) your performance; and (iv) such other factors as deemed appropriate. The Compensation and Benefits Committee (for executive officers), Management Compensation Committee (for Band 1 employees) or other management team designated for such purpose, together with key control functions, will review the loss and your accountability. The

Compensation and Benefits Committee (for executive officers), Management Compensation Committee (for Band 1 employees) or other management team designated for such purpose will then make a final determination to either take no action or to cancel some or all of your Award. All such determinations will be final and binding.

(f) <u>DEFINITIONS</u>. For purposes hereof, the following terms shall have the following meanings.

3-year Average Growth in Adjusted TBV means the average year-over-year percentage change in "adjusted tangible book value" for the three (3) calendar years in the Performance Period. For this purpose, "adjusted tangible book value" for each year will equal Bank of America's total common shareholders' equity, less (i) the impact of any capital actions approved (or not objected to) by the Federal Reserve Board and/or approved by the Board, and less (ii) the sum of the carrying value of (A) goodwill and (B) intangible assets excluding mortgage servicing rights, adjusted for (C) deferred tax liabilities directly related to (A) and (B). Each year-over-year percentage change is measured after the conclusion of each calendar year using the beginning balance as of January 1 and the ending balance as of December 31 of that year.

<u>3-year Average ROA</u> means the average "return on assets" for the three (3) calendar years in the Performance Period. For this purpose, "return on assets" will be based on generally accepted accounting principles ("GAAP") at the conclusion of each year.

All Other Terminations means any termination of your employment with Bank of America and its Subsidiaries, whether initiated by you or your employer, other than (i) a Qualifying Termination, (ii) a termination due to your death or Disability, (iii) a termination with Cause and (iv) a termination in connection with a Change in Control as described in paragraph (b)(iv) above.

<u>Cause</u> shall be defined as that term is defined in your offer letter or other applicable employment agreement; or, if there is no such definition, "Cause" means a termination of your employment with Bank of America and its Subsidiaries if it occurs in conjunction with a determination by your employer that you have (i) committed an act of fraud or dishonesty in the course of your employment; (ii) been convicted of (or plead no contest with respect to) a crime constituting a felony or a crime of comparable magnitude under applicable law (as determined by Bank of America in its sole discretion); (iii) committed an act or omission which causes you or Bank of America or its

Subsidiaries to be in violation of federal or state securities laws, rules or regulations, and/or the rules of any exchange or association of which Bank of America or its Subsidiaries is a member, including statutory disqualification; (iv) failed to perform your job duties where such failure is injurious to Bank of America or any Subsidiary, or to Bank of America's or such Subsidiary's business interests or reputation; (v) materially breached any written policy applicable to your employment with Bank of America or any of its Subsidiaries including, but not limited to, the Bank of America Corporation Code of Conduct and General Policy on Insider Trading; or (vi) made an unauthorized disclosure of any confidential or proprietary information of Bank of America or its Subsidiaries or have committed any other material violation of Bank of America's written policy regarding Confidential and Proprietary Information.

<u>Competition</u> means your being engaged, directly or indirectly, whether as a director, officer, employee, consultant, agent or otherwise, with a business entity that is or later becomes designated as a "Competitive Business" based on the criteria effective as of the date of your termination of employment. If you live or work in Massachusetts, the scope of Competition will be as broad as necessary to protect the legitimate business interests of Bank of America and its Subsidiaries.

Detrimental Conduct means your serious misconduct or unethical behavior, including any one of the following: (i) any conduct that would constitute Cause; (ii) the commission of a criminal act by you, whether or not performed in the workplace, that subjects, or if generally known, would subject Bank of America or its Subsidiaries to public ridicule or embarrassment, or other improper or intentional conduct causing reputational harm to Bank of America, its Subsidiaries, or a client of Bank of America or its Subsidiaries; (iii) the breach of a fiduciary duty owed to Bank of America or its Subsidiaries or a client or former client of Bank of America or its Subsidiaries; (iv) intentional violation, or grossly negligent disregard, of Bank of America's or its Subsidiaries' policies, rules and procedures, specifically including, but not limited to any of your obligations under the Bank of America Corporation Code of Conduct and workplace policies; or (v) you taking or maintaining trading positions that result in a need to restate financial results in a subsequent reporting period or that result in a significant financial loss to Bank of America or its Subsidiaries during or after the performance year.

Disability is as defined in the Stock Plan.

Good Reason means, provided that you have complied with the Good Reason Process, the occurrence of any of the following events without your consent: (i) a material diminution in your responsibility, authority or duty; (ii) a material diminution in your base salary except for across-the-board salary reductions based on Bank of America and its Subsidiaries' financial performance similarly affecting all or substantially all management employees of Bank of America and its Subsidiaries; or (iii) the relocation of the office at which you were principally employed immediately prior to a Change in Control to a location more than fifty (50) miles from the location of such office, or your being required to be based anywhere other than such office, except to the extent you were not previously assigned to a principal location and except for required travel on your employer's business to an extent substantially consistent with your business travel obligations at the time of the Change in Control.

Good Reason Process means that (i) you reasonably determine in good faith that a Good Reason condition has occurred; (ii) you notify Bank of America and its Subsidiaries in writing of the occurrence of the Good Reason condition within sixty (60) days of such occurrence; (iii) you cooperate in good faith with Bank of America and its Subsidiaries' efforts, for a period of not less than thirty (30) days following such notice (the "Cure Period"), to remedy the condition; (iv) notwithstanding such efforts, the Good Reason condition continues to exist following the Cure Period; and (v) you terminate your employment for Good Reason within sixty (60) days after the end of the Cure Period. If Bank of America or its Subsidiaries cures the Good Reason condition during the Cure Period, and you terminate your employment with Bank of America and its Subsidiaries due to such condition (notwithstanding its cure), then you will not be deemed to have terminated your employment for Good Reason.

Performance Period means the three (3) calendar year period beginning [date] and ending [date].

Qualifying Termination means your termination of employment with Bank of America and its Subsidiaries after you have (i) a length of service of at least ten (10) years and (ii) a combined age and length of service equal to at least sixty (60). Your length of service will be determined by Bank of America, in its sole discretion, and, in that regard if you participate in a tax-qualified 401(k) plan sponsored by Bank of America or its Subsidiaries, your length of service shall be your "Vesting Service" under the tax-qualified 401(k) plan in which you participate. [For Mr. Montag:

Notwithstanding the foregoing, your termination of employment shall be deemed a Qualifying Termination if it occurs on or after the third anniversary of your date of hire.]

ESA RETENTION AGREEMENT

This ESA Retention Agreement (the "Agreement") by and between Bank of America Corporation, a Delaware corporation (the "Company"), and Dean C. Athanasia (the "Executive"), is hereby entered into as of the 15th day of March, 2004, and is hereby effective upon the consummation of the transactions (the "Merger") contemplated by the Agreement and Plan of Merger between the Company and FleetBoston Financial Corporation, a Rhode Island corporation ("FleetBoston"), dated as of October 27, 2003 (the "Merger Agreement").

Statement of Purpose

The Executive and FleetBoston have previously entered into an executive severance agreement, dated as of December 17, 2003 (the "Original Agreement"), to ensure that FleetBoston would have the continued services and dedication of the Executive pending the consummation of certain transactions that would constitute a "Change of Control" of FleetBoston, as defined under the Original Agreement. The merger of FleetBoston with and into the Company pursuant to the Merger Agreement will constitute a "Change of Control" of FleetBoston for purposes of the Original Agreement. In connection with the Merger, the Company has determined that it is in its best interests to ensure that the combined company will have the continued dedication and services of the Executive following the consummation of the Merger. In order to provide the Executive with appropriate incentives to remain with the combined company following the Merger, to provide the Company with certain covenants regarding the Executive's conduct during and following the Executive's employment and to otherwise meet the Company's needs, the Company and the Executive desire to amend and restate the Original Agreement in its entirety as set forth in this Agreement.

NOW, THEREFORE, in consideration of the premises and the mutual covenants, representations, warranties and agreements contained herein, and intending to be legally bound hereby, the parties hereto hereby agree that the Original Agreement is amended and restated in its entirety as hereinafter set forth, subject to the consummation of the Merger:

- 1. <u>Effect of this Agreement</u>. This Agreement amends and restates the Original Agreement as of the "Effective Time", as defined in the Merger Agreement (the "Effective Time"). In the event that the Merger is not consummated, this Agreement shall be void *ab initio* and of no force and effect whatsoever.
- 2. <u>Employment Period</u>. Subject to the terms and conditions hereof, the Company hereby agrees to continue the Executive in its employ, and the Executive hereby agrees to remain in the employ of the Company, for the period commencing at the Effective Time and ending on the last day of the twenty-fourth month following the month in which the Effective Time occurs (the "Employment Period").
 - 3. <u>Terms of Employment.</u>
 - (a) <u>Position and</u> <u>Duties</u>.
 - (i) During the Employment Period, (A) the Executive's title and position shall be that listed in Section 1 of Exhibit A and (B) the Executive's services shall be performed

at the Company's offices at the location listed in Section 2 of Exhibit A or less than 50 miles from such location.

(ii) During the Employment Period, and excluding any periods of vacation and sick leave to which the Executive is entitled, the Executive agrees to devote reasonable attention and time during normal business hours to the business and affairs of the Company and, to the extent necessary to discharge the responsibilities assigned to the Executive hereunder, to use the Executive's reasonable best efforts to perform faithfully and efficiently such responsibilities. During the Employment Period it shall not be a violation of this Agreement for the Executive to (A) serve on corporate, civic or charitable boards or committees, (B) deliver lectures, fulfill speaking engagements or teach at educational institutions and (C) manage personal investments, so long as such activities do not significantly interfere with the performance of the Executive's responsibilities as an employee of the Company in accordance with this Agreement. It is expressly understood and agreed that to the extent that any such activities have been conducted by the Executive prior to the Effective Time while employed by FleetBoston, the continued conduct of such activities (or the conduct of activities similar in nature and scope thereto) subsequent to the Effective Time shall not thereafter be deemed to interfere with the performance of the Executive's responsibilities to the Company.

(b) <u>Compensation</u>.

- (i) <u>Base Salary.</u> During the Employment Period, the Executive shall receive an annual base salary ("Annual Base Salary") of no less than the amount listed in Section 3 of <u>Exhibit A</u>. Any increase in Annual Base Salary shall not serve to limit or reduce any other obligation to the Executive under this Agreement. Annual Base Salary shall not be reduced after any such increase and the term Annual Base Salary as utilized in this Agreement shall refer to Annual Base Salary as so increased.
- (ii) Annual Bonus. In addition to Annual Base Salary, for each fiscal year during the Employment Period, the Executive shall be eligible for an annual bonus opportunity in accordance with the plans, policies, programs and practices of the Company and its affiliates applicable to other similarly situated executives of the Company and its affiliates (the "Annual Bonus"). The cash portion of any Annual Bonus actually awarded to the Executive for any fiscal year ending during the Employment Period shall be paid no later than the end of the third month of the fiscal year next following the fiscal year for which the Annual Bonus is awarded, unless the Executive shall elect to defer the receipt of such Annual Bonus pursuant to deferral plans of the Company. In accordance with the terms of any equity bonus arrangement of the Company, as in effect from time to time, a portion of any such Annual Bonus may be awarded in the form of restricted stock shares or units, which shall be subject to certain vesting requirements and shall be valued for purposes of calculating the Annual Bonus according to the dollar amount of such equity awards (as of their date of grant and prior to their conversion into common stock of the Company and without regard to any premium thereto), and which shall otherwise be subject to terms and conditions applicable to other similarly situated executives of the Company. The Executive hereby waives any and all right to a pro-rata annual bonus pursuant to the terms of any FleetBoston incentive plan with respect to the fiscal year in which the Effective Time occurs.
- (iii) <u>Incentive, Savings and Retirement Plans</u>. In addition to Annual Base Salary and eligibility for an Annual Bonus, the Executive shall also be eligible during the Employment Period to participate in incentive, savings and retirement plans, policies, programs and practices of the Company and its affiliates applicable to other similarly situated executives

of the Company and its affiliates. The Executive agrees that any distribution by FleetBoston in December of 2003 of all or a portion of the Executive's deferred compensation account under any FleetBoston deferred compensation plan that the Executive previously elected to have distributed in January of 2004 was within FleetBoston's authority and acknowledges that the Company, as the successor to FleetBoston, has no additional liability to the Executive with respect to any such distribution. The Executive understands and acknowledges that the terms of this Section 3(b)(iii) are satisfied with respect to annual equity incentive awards by the Executive being eligible for consideration of such awards as follows: (A) the Executive shall be evaluated and eligible for an award in first quarter 2005 with respect to the Executive's performance in fiscal year 2004, (B) the Executive shall be evaluated and eligible for an award in first quarter 2006 with respect to the Executive's performance in fiscal year 2005, and (C) the number of shares underlying or in respect of any such award shall be determined in accordance with the Company's practices applicable to similarly situated executives and the terms and conditions of any such award granted to the Executive shall be no less favorable than the terms and conditions of awards made to similarly situated executives in respect of the same period of service.

- (iv) Welfare Benefit Plans. During the Employment Period, the Executive and/or the Executive's family, as the case may be, shall be eligible for participation in and shall receive all benefits under welfare benefit plans, practices, policies and programs provided by the Company and its affiliates (including, without limitation, medical, prescription, dental, disability, employee life, group life, accidental death and travel accident insurance plans and programs) and applicable to other similarly situated executives of the Company and its affiliates.
- (v) <u>Vacation</u>. During the Employment Period, the Executive shall be entitled to paid vacation in accordance with the plans, policies, programs and practices of the Company and its affiliates applicable to other similarly situated executives of the Company and its affiliates.

(c) <u>Deferred Retention</u> <u>Incentive</u>.

- (i) <u>Deferred Amount.</u> At the Effective Time, the Company shall establish a deferred compensation account in the name of the Executive with an initial balance equal to the amount listed in Section 4 of <u>Exhibit A</u> (the "Deferred Amount"), which shall earn interest for the duration of the deferral period at a rate equal to the prior month 1 Year Constant Maturity Treasury Rate as determined each month by the Federal Reserve, compounded daily.
- (ii) Vesting of the Deferred Amount. If the Executive remains employed with the Company for twelve (12) months after the Merger Date, then fifty percent (50%) of the Deferred Amount shall become vested on the first anniversary of the Merger Date, and if the Executive remains employed with the Company for twenty-four (24) months after the Merger Date, then the remaining fifty-percent (50%) of the Deferred Amount shall become vested on the second anniversary of the Merger Date; provided, however, that if the Company shall terminate the Executive's employment for Cause during the Employment Period, the Deferred Amount shall be zero percent (0%) vested. To the extent the Deferred Amount is not vested as of the Executive's Date of Termination (as hereinafter defined), such unvested portion of the Deferred Amount shall be forfeited in its entirety, and the Executive (or the Executive's estate or beneficiaries) shall have no rights or entitlement with respect thereto. Notwithstanding anything to the contrary contained herein, if, during the Employment Period the Company shall terminate the Executive's employment other than for Cause or if the Executive shall terminate employment under this Agreement for Good Reason or if the Executive's employment shall terminate by

reason of death or Disability (as hereinafter defined), then the Deferred Amount shall become one hundred percent (100%) vested on the Date of Termination.

- (iii) Payment of the Deferred Amount. If the Executive's employment is terminated by reason of the Executive's death or Disability, the vested portion of the Deferred Amount shall be paid to the Executive or the Executive's beneficiaries or estate, as applicable, in a lump sum amount within 30 days after the Date of Termination, subject to compliance with Section 6 of this Agreement. If the Executive's employment is terminated by any reason other than the Executive's death or Disability, the vested portion of the Deferred Amount shall be paid to the Executive in substantially equal installments over the twelve (12) month period immediately following the Date of Termination and the first provided, however, that if, during the twelve (12) month period immediately following the Date of Termination, without the prior written consent of the Company, the Executive violates the restrictive covenants set forth in Section 10 hereof, any unpaid portion of the Deferred Amount shall be forfeited in its entirety, and the Executive (or the Executive's estate or beneficiaries) shall have no rights or entitlement with respect thereto.
- (iv) <u>Survival of Section 3(c)</u>. The provisions of this Section 3(c) shall survive the termination of this Agreement and the expiration of the Employment Period, in accordance with their terms.

4. <u>Termination of</u> Employment.

- (a) <u>Death or Disability</u>. The Executive's employment shall terminate automatically upon the Executive's death during the Employment Period. If the Company determines in good faith that the Disability of the Executive has occurred during the Employment Period (pursuant to the definition of "Disability" set forth below), it may give to the Executive written notice in accordance with Section 12(b) of this Agreement of its intention to terminate the Executive's employment. In such event, the Executive's employment with the Company shall terminate effective on the 30th day after receipt of such notice by the Executive (the "Disability Effective Date"), *provided* that, within the 30 days after such receipt, the Executive shall not have returned to full-time performance of the Executive's duties. For purposes of this Agreement, "Disability" means disability within the meaning of the Company's long-term disability plan applicable to the Executive.
- (b) <u>Cause</u>. The Company may terminate the Executive's employment during the Employment Period for "Cause". For purposes of this Agreement, "Cause" means:
 - (i) the willful and continued failure by the Executive to perform substantially the Executive's duties with the Company (other than any such failure resulting from the Executive's incapacity due to physical or mental illness or any such actual or anticipated failure after a termination for Good Reason by the Executive) after a written demand for substantial performance is delivered to the Executive by the Company, which demand specifically identifies the manner in which the Company believes that the Executive has not substantially performed the Executive's duties; or
 - (ii) the willful engaging by the Executive in conduct which is demonstrably and materially injurious to the Company.

- (c) Good Reason. The Executive's employment may be terminated during the Employment Period by the Executive for Good Reason. For purposes of this Agreement, "Good Reason" means:
 - (i) the Company's requiring the Executive to be based at any office other than an office permitted in Section 3(a)(i) of this Agreement; or
 - (ii) any failure by the Company to comply with and satisfy Section 3(b)(i) of this Agreement, other than an isolated, insubstantial and inadvertent failure not occurring in bad faith and which is remedied by the Company promptly after receipt of notice thereof given by the Executive.

The Executive hereby agrees and acknowledges that neither acceptance of the position and employment terms (including compensation) listed on Exhibit A and in Section 3 of this Agreement nor any other change to the Original Agreement pursuant to provisions of this Agreement constitutes Good Reason under the Original Agreement or this Agreement, as defined in this Section 4(c).

- (d) Notice of Termination. Any termination by the Company for Cause or by the Executive for Good Reason shall be communicated by Notice of Termination to the other party hereto given in accordance with Section 12(b) of this Agreement. For purposes of this Agreement, a "Notice of Termination" means a written notice which (i) indicates the specific termination provision in this Agreement relied upon, (ii) sets forth in reasonable detail the facts and circumstances claimed to provide a basis for termination of the Executive's employment under the provision so indicated and (iii) if the Date of Termination (as defined below) is other than the date of receipt of such notice, specifies the termination date (which date shall be not more than 15 days after the giving of such notice, except as provided in Section 4(e) below). The failure by the Executive to set forth in the Notice of Termination any fact or circumstance which contributes to a showing of Good Reason shall not waive any right of the Executive hereunder or preclude the Executive from asserting such fact or circumstance in enforcing the Executive's rights hereunder.
- (e) <u>Date of Termination</u>. "Date of Termination" means the date of receipt of the Notice of Termination or any later date specified therein, as the case may be; *provided, however*, that (i) if the Executive's employment is terminated by the Company other than for Cause or Disability, the Date of Termination shall be the date on which the Company notifies the Executive of such termination, (ii) if the Executive's employment is terminated by reason of death or Disability, the Date of Termination shall be the date of death of the Executive or the Disability Effective Date, as the case may be, and (iii) if the Executive's employment is terminated by the Executive for Good Reason, the Date of Termination shall be the later of (A) the date specified by the Executive in the Notice of Termination and (B) to the extent the Company reasonably determines that the continued services of the Executive are required to effectuate a smooth and efficient transition and/or integration of the Executive's function, duties and/or responsibilities (as in effect prior to the Effective Time), the date designated by the Company, which shall in no event be later than nine (9) months following the date on which the Company received the Notice of Termination from the Executive (the "Transition Period"); *provided, however*, that, if either of the events set forth in Sections 4(c)(i) or 4(c)(ii) hereof occurs at any time during the Transition Period, the Executive in the Notice of Termination or, if the event occurs during the Transition Period, and the Date of Termination shall be the date specified by the Executive in the Notice of Termination or, if the event occurs during the Transition Period, the date of the occurrence of such event.

5. <u>Obligations of the Company Upon</u> Termination.

- (a) Death. If the Executive's employment is terminated by reason of the Executive's death during the Employment Period, this Agreement shall terminate without further obligations to the Executive's legal representatives under this Agreement, other than the sum of the following obligations: (i) the Executive's Annual Base Salary through the Date of Termination to the extent not theretofore paid, (ii) the product of (A) the greater of (x) the Annual Bonus paid or payable (and annualized for any fiscal year consisting of less than 12 full months or for which the Executive has been employed for less than 12 full months) to the Executive for the most recently completed fiscal year during the Employment Period, if any, and (y) the annual bonus equal to the average annualized (for any fiscal year consisting of less than twelve full months or with respect to which the Executive has been employed by FleetBoston for less than twelve full months) bonus paid or payable to the Executive by FleetBoston and its affiliates in respect of the three fiscal years immediately preceding the fiscal year in which the Effective Time occurs and (B) a fraction, the numerator of which is the number of days in the current fiscal year through the Date of Termination, and the denominator of which is 365 and (iii) any accrued vacation pay not yet paid by the Company (the amounts described in subparagraphs (i), (ii) and (iii) are hereafter referred to as "Accrued Obligations"). All Accrued Obligations shall be paid to the Executive's estate or beneficiary, as applicable, in a lump sum in cash within 30 days of the Date of Termination. Anything in this Agreement to the contrary notwithstanding, the Executive's family shall be eligible to receive death benefits to the extent provided under the plans, practices, policies and programs in which the Executive participates pursuant to Section 3(b)(iv) of this Agreement.
- (b) <u>Disability</u>. If the Executive's employment is terminated by reason of the Executive's Disability during the Employment Period, this Agreement shall terminate without further obligations to the Executive, other than for Accrued Obligations. All Accrued Obligations shall be paid to the Executive in a lump sum in cash within 30 days of the Date of Termination. Anything in this Agreement to the contrary notwithstanding, the Executive shall be eligible after the Disability Effective Date to receive disability and other benefits to the extent provided under the plans, practices, policies and programs in which the Executive participates pursuant to Section 3(b)(iv) of this Agreement.
- (c) <u>Cause; Other Than for Good Reason</u>. If the Executive's employment shall be terminated for Cause or other than for Good Reason during the Employment Period, this Agreement shall terminate without further obligations to the Executive other than the obligation to pay to the Executive Annual Base Salary through the Date of Termination to the extent theretofore unpaid (subject to the provisions of Section 3(c) pursuant to which a portion of the Deferred Amount may become payable following a termination of employment during the Employment Period by the Executive other than for Good Reason). In such case, such unpaid Annual Base Salary shall be paid to the Executive in a lump sum in cash within 30 days of the Date of Termination.
- (d) Good Reason; Other Than for Cause or Disability. If, during the Employment Period, the Company shall terminate the Executive's employment other than for Cause or Disability, or if the Executive shall terminate employment under this Agreement for Good Reason, then subject to compliance with Section 6:
 - (i) the Company shall pay to the Executive in a lump sum in cash within 30 days after the Date of Termination all Accrued Obligations; and
 - (ii) the Company shall pay to the Executive in a lump sum in cash within 30 days after the Date of Termination the amount equal to the difference between the Actuarial

Equivalent (as defined below) of (A) and (B), where (A) is the Executive's benefit under the FleetBoston Financial Corporation Pension Plan (the "Pension Plan"), as supplemented by the Retirement Income Assurance Plan, or any successor to such plans (the "RIAP," together with the Pension Plan, collectively referred to as the "Retirement Plans," in each case as in effect as of immediately prior to the Effective Time or at any time thereafter to the extent more favorable to the Executive), that the Executive would receive if the Executive was fully vested in the Retirement Plans and the Executive's employment continued at the compensation level provided for in Section 3(b)(i) for two years after the Date of Termination, and such two additional years shall be credited to the Executive for purposes of calculating the Executive's age (but only for purposes of determining eligibility for early retirement, date of commencement, and early retirement reductions), pay and interest credits or final average salary (as applicable) and years of service accrued under the Retirement Plans; provided, however, that any benefit to the Executive under any one or more of the Retirement Plans shall be included in the foregoing calculation only to the extent the Executive participated in any such Retirement Plan immediately prior to the Effective Time, and (B) is the Executive's actual benefit (paid or payable), if any, under the Retirement Plans as of the Date of Termination. For purposes of this Section 5(d)(ii), "Actuarial Equivalent" shall be determined (x) based on the definition of such term in the Pension Plan (as in effect as of immediately prior to the Effective Time or at any time thereafter to the extent more favorable to the Executive), and (y) assuming the Executive's benefit under the Retirement Plans shall commence immediately after the Date of Termination if the Executive is early retirement eligible (after taking into account the additional years of age and service credit provided hereunder) and, if not early retirement eligible (after taking into account the additional years of age and service credit provided hereunder), the age elected by the Executive solely for purposes of this Section 5(d)(ii), provided that for purposes of determining the lump-sum present value of the benefits described in clauses (A) and (B) of this Section 5(d)(ii), the Executive's actual age on the Date of Termination shall be used; and

- (iii) the Company shall pay to the Executive in a lump sum in cash within 30 days after the Date of Termination the amount equal to (A) the employer matching contributions that the Company would have made on the Executive's behalf to the FleetBoston Financial Corporation Savings Plan or other similar or successor plan (the "Savings Plan") and the FleetBoston Financial Corporation Executive Supplemental Plan (assuming the maximum employee deferral election, and the maximum employer matching contribution rate, permitted under each of the Savings Plan and the FleetBoston Financial Corporation Executive Supplemental Plan) if the Executive's employment continued at the compensation level provided for in Section 3(b)(i) for two years, plus (B) the amount, if any, of the Executive's account in the Savings Plan which is forfeitable on the Date of Termination; and
- during the two years after the Executive's Date of Termination (the "Severance Period"), or such longer period as any plan, program, practice or policy may provide, the Company shall continue benefits to the Executive and/or the Executive's family at least equal to those which would have been provided in accordance with the applicable plans, programs, practices and policies described in Section 3(b)(iv) of this Agreement as if the Executive's employment had not been terminated or, if more favorable to the Executive, as in effect at any time thereafter with respect to other similarly situated executives of the Company and its affiliates and their families. For purposes of determining eligibility of the Executive for retiree benefits pursuant to such plans, practices, programs and policies, the Executive shall be considered to have remained employed until the end of the Severance Period and to have retired on the last day of such period, and such additional period of deemed service shall be credited to the Executive for purposes of calculating the Executive's age and years of accrued service; and

- (v) for purposes of any outstanding vested stock options granted to the Executive prior to the Effective Time, the Executive will be deemed to be an employee of the Company during the Severance Period and, after the expiration of the Severance Period, will have the benefit of the post-termination exercise period applicable to terminations of employment following a "Change of Control" as set forth in any such stock option award agreement or plan.
- 6. <u>Conditions to Receipt of Payments and Benefits</u>. The Executive's entitlement to the payments and benefits provided under this Agreement following the Executive's Date of Termination shall be conditioned upon (i) the Executive's execution and non-revocation of a general release of claims substantially in the form used by the Company for terminations of similarly situated employees, and (ii) the Executive's continued employment through the Date of Termination, including during the Transition Period in accordance with and subject to Section 4(e)(iii)(B).
- 7. Non-exclusivity of Rights. Nothing in this Agreement shall prevent or limit the Executive's continuing or future participation in any benefit, bonus, incentive or other plans, programs, policies or practices, provided by the Company or any of its affiliates and for which the Executive may qualify, nor, subject to Section 12(f) of this Agreement, shall anything herein limit or otherwise affect such rights as the Executive may have under any other agreements with the Company or any of its affiliates; *provided, however*, that in no event shall the Executive be entitled to duplicate payments, value or benefits. Amounts which are vested benefits or which the Executive is otherwise entitled to receive under any plan, policy, practice or program of the Company or any of its affiliates at or subsequent to the Date of Termination shall be payable in accordance with such plan, policy, practice or program except as explicitly modified by this Agreement.
- 8. Full Settlement. Except as otherwise specifically provided herein, the Company's obligation to make the payments provided for in this Agreement and otherwise to perform its obligations hereunder shall not be affected by any set-off, counterclaim, recoupment, defense or other claim, right or action which the Company may have against the Executive or others; provided, however, that nothing herein shall limit the Company's right to (i) forfeit amounts in accordance with and subject to the provisions of Section 3(c)(ii) or Section 3(c)(iii) herein or (ii) seek recoupment from the Executive upon the Executive's termination of employment of amounts obtained by the Executive pursuant to an act or acts of personal dishonesty taken by the Executive and intended to result in substantial personal enrichment to the Executive at the expense of the Company. In no event shall the Executive be obligated to seek other employment or take any other action by way of mitigation of the amounts payable to the Executive under any of the provisions of this Agreement. The Company agrees to pay, to the full extent permitted by law, all legal fees and expenses which the Executive may reasonably incur as a result of any contest (regardless of the outcome thereof) by the Company or others of the validity or enforceability of, or liability under, any provision of this Agreement or any guarantee of performance thereof (including as a result of any contest by the Executive about the amount of any payment pursuant to Section 9 of this Agreement), plus in each case interest at the applicable Federal rate provided for in Section 7872(f)(2) of the Internal Revenue Code of 1986, as amended (the "Code").

9. <u>Certain Additional Payments by the Company.</u>

(a) Anything in this Agreement to the contrary notwithstanding and except as set forth below, in the event it shall be determined that any payment or distribution by the Company to or for the benefit of the Executive (whether paid or payable or distributed or distributable pursuant to the

terms of this Agreement or otherwise, but determined without regard to any additional payments required under this Section 9) (a "Payment") would be subject to the excise tax imposed by Section 4999 of the Code or any interest or penalties are incurred by the Executive with respect to such excise tax (such excise tax, together with any such interest and penalties, are hereinafter collectively referred to as the "Excise Tax"), then the Executive shall be entitled to receive an additional payment (a "Gross-Up Payment") in an amount such that after payment by the Executive of all taxes (including any interest or penalties imposed with respect to such taxes), including, without limitation, any income taxes (and any interest and penalties imposed with respect thereto) and Excise Tax imposed upon the Gross-Up Payment, the Executive retains an amount of the Gross-Up Payment equal to the Excise Tax imposed upon the Payments. Notwithstanding the foregoing provisions of this Section 9(a), if it shall be determined that the Executive is entitled to a Gross-Up Payment, but that the Executive, after taking into account the Payments and the Gross-Up Payment, would not receive a net after-tax benefit of at least \$50,000 (taking into account both income taxes and any Excise Tax) as compared to the net after-tax proceeds to the Executive resulting from an elimination of the Gross-Up Payment and a reduction of the Payments, in the aggregate, to an amount (the "Reduced Amount") such that the receipt of Payments would not give rise to any Excise Tax, then no Gross-Up Payment shall be made to the Executive and the Payments, in the aggregate, shall be reduced Amount.

- (b) Subject to the provisions of Section 9(c), all determinations required to be made under this Section 9, including whether and when a Gross-Up Payment is required and the amount of such Gross-Up Payment and the assumptions to be utilized in arriving at such determination, shall be made by the Company upon consultation with such tax counsel or tax accountants as the Company may determine. All fees and expenses related to any such determinations shall be borne solely by the Company. Any Gross-Up Payment, as determined pursuant to this Section 9, shall be paid by the Company to the Executive as soon as administratively practicable after the Company's determination and shall be accompanied by supporting calculations. As a result of the uncertainty in the application of Section 4999 of the Code at the time of the initial determination by the Company hereunder, it is possible that Gross Up Payments which will not have been made by the Company should have been made ("Underpayment"), consistent with the calculations required to be made hereunder. In the event that the Company exhausts its remedies pursuant to Section 9(c) and the Executive thereafter is required to make a payment of any Excise Tax, the Company, upon consultation with its tax counsel or tax accountants, shall determine the amount of the Underpayment that has occurred and any such Underpayment shall be promptly paid by the Company to or for the benefit of the Executive.
- (c) The Executive shall notify the Company in writing of any claim by the Internal Revenue Service that, if successful, would require the payment by the Company of the Gross-Up Payment. Such notification shall be given as soon as practicable but no later than ten business days after the Executive receives written notification of such claim and shall apprise the Company of the nature of such claim and the date on which such claim is requested to be paid. The Executive shall not pay such claim prior to the expiration of the 30-day period following the date on which it gives such notice to the Company (or such shorter period ending on the date that any payment of taxes with respect to such claim is due). If the Company notifies the Executive in writing prior to the expiration of such period that it desires to contest such claim, the Executive shall:
 - (i) give the Company any information reasonably requested by the Company relating to such claim;
 - (ii) take such action in connection with contesting such claim as the Company shall reasonably request in writing from time to time; *provided, however*, that the Company's

selection of one or more attorneys to provide legal representation with respect to such claim shall be subject to the Executive's prior written approval;

- (iii) cooperate with the Company in good faith in order to contest such claim effectively; and
- (iv) permit the Company to participate in any proceedings relating to

such claim;

provided, however, that the Company shall bear and pay directly all costs and expenses (including additional interest and penalties) incurred in connection with such contest and shall indemnify and hold the Executive harmless, on an after-tax basis, for any Excise Tax or income tax (including interest and penalties with respect thereto) imposed as a result of such representation and payment of costs and expenses. Without limitation on the foregoing provisions of this Section 9(c), the Company shall control all proceedings taken in connection with such contest, and, at its sole option, may pursue or forgo any and all administrative appeals, proceedings, hearings and conferences with the taxing authority in respect of such claim and may, at its sole option, either pay the tax claimed to the appropriate taxing authority on behalf of the Executive and direct the Executive to sue for a refund or contest the claim in any permissible manner, and the Executive agrees to prosecute such contest to a determination before any administrative tribunal, in a court of initial jurisdiction and in one or more appellate courts, as the Company shall determine; provided, however, that, if the Company pays such claim and directs the Executive to sue for a refund, the Company shall indemnify and hold the Executive harmless, on an after-tax basis, from any Excise Tax or income tax (including interest or penalties with respect thereto) imposed with respect to such payment or with respect to any imputed income in connection with such payment; and provided, further, that any extension of the statute of limitations relating to payment of taxes for the taxable year of the Executive with respect to which such contested amount is claimed to be due is limited solely to such contested amount. Furthermore, the Company's control of the contest shall be limited to issues with respect to which the Gross-Up Payment would be payable hereunder, and the Executive shall be entitled to settle or contest, as the case may be, any other issue raised by the

- (d) If, after the receipt by the Executive of a payment by the Company of an amount on the Executive's behalf pursuant to Section 9(c), the Executive becomes entitled to receive any refund with respect to such claim, the Executive shall (subject to the Company's complying with the requirements of Section 9(c)) promptly pay to the Company the amount of such refund (together with any interest paid or credited thereon after taxes applicable thereto). If, after payment by the Company of an amount on the Executive's behalf pursuant to Section 9(c), a determination is made that the Executive shall not be entitled to any refund with respect to such claim and the Company does not notify the Executive in writing of its intent to contest such denial of refund prior to the expiration of 30 days after such determination, then the amount of such payment shall offset, to the extent thereof, the amount of Gross-Up Payment required to be paid. The provisions of this Section 9 shall survive the termination of this Agreement and the expiration of the Employment Period.
- 10. <u>Confidential Information, Non-Solicitation, and Non-Disparagement</u>. In consideration for the establishment of the Deferred Amount, the Executive covenants and agrees as follows:
- (a) <u>Confidential Information</u>. The Executive shall hold in a fiduciary capacity for the benefit of the Company all secret or confidential information, knowledge or data relating to the Company or any of its affiliates, and their respective businesses, which shall have been obtained by

the Executive during the Executive's employment by the Company or any of its affiliates and which shall not be or become public knowledge (other than by acts by the Executive or representatives of the Executive in violation of this Agreement). After termination of the Executive's employment with the Company, the Executive shall not, without the prior written consent of the Company, communicate or divulge any such information, knowledge or data to anyone other than the Company and those designated by it.

(b) Non-Solicitation of Employees. The Executive agrees that, during the

one-year period following the Date of Termination, the Executive will not recruit, hire or attempt to recruit or hire, directly or by assisting others, or otherwise entice or encourage to leave employment any of the Company's or its affiliates' management level employees who were employed by the Company or its affiliates (i) as of the Executive's Date of Termination or (ii) at any time during the six (6) month period prior to the Executive's Date of Termination.

- (c) <u>Non-Solicitation of Clients and Customers</u>. The Executive agrees that, during the one-year period following the Date of Termination, the Executive will not, without the written consent of the Company, directly or indirectly, solicit business of any client or customer of the Company or any of its affiliates or attempt in any manner to persuade any client or customer of the Company or any of its affiliates to cease to do business or to reduce the amount of business which any client or customer has customarily done or contemplates doing with the Company or any of its affiliates, in each case, where the client or customer was one with whom the Executive had substantial business contacts during the Executive's employment with the Company.
- (d) <u>Non-Disparagement</u>. The Executive agrees that the Executive and the Executive's immediate family shall refrain from criticizing or making disparaging or derogatory comments about the Company or any of its affiliates and the current and former officers, directors, employees, agents, products or services of the Company or any of its affiliates, and the Company agrees that the officers and directors of the Company shall refrain from criticizing or making disparaging or derogatory comments about the Executive.
- (e) Enforcement. Except as otherwise set forth in Section 3(c)(iii) above, an asserted violation of the provisions of this Section 10 shall not constitute a basis for deferring or withholding any amounts otherwise payable to the Executive under this Agreement. In addition, in the event of a breach or a threatened breach of any provision of this Section 10, in addition to the remedies set forth in Section 3(c)(iii) above, the Executive agrees that the Company shall be entitled to injunctive relief in a court of appropriate jurisdiction to remedy any such breach or threatened breach. The Executive acknowledges that damages would be inadequate and insufficient.
- (f) Application to FleetBoston. All references to "the Company and its affiliates" in this Section 10 shall also mean and include FleetBoston and its affiliates with respect to the period of time prior to the Effective Time.
- (g) <u>Survival</u>. The provisions of this Section 10 shall survive the termination of this Agreement and the expiration of the Employment Period.

11. Successors.

- (a) This Agreement is personal to the Executive and without the prior written consent of the Company shall not be assignable by the Executive otherwise than by will or the laws of descent and distribution. This Agreement shall inure to the benefit of and be enforceable by the Executive's legal representatives.
 - (b) This Agreement shall inure to the benefit of and be binding upon the Company and its successors and assigns.
- (c) The Company will require any successor (whether direct or indirect, by purchase, merger, consolidation or otherwise) to all or substantially all of the business and/or assets of the Company to assume expressly and agree to perform this Agreement in the same manner and to the same extent that the Company would be required to perform it if no such succession had taken place. As used in this Agreement, "Company" shall mean the Company as hereinbefore defined and any successor to its business and/or assets as aforesaid which assumes and agrees to perform this Agreement by operation of law, or otherwise.

12. Miscellaneous.

- (a) This Agreement shall be governed by and construed in accordance with the laws of the State of Rhode Island, without reference to principles of conflict of laws. The captions of this Agreement are not part of the provisions hereof and shall have no force or effect. This Agreement may not be amended or modified otherwise than by a written agreement executed by the parties hereto or their respective successors and legal representatives.
- (b) All notices and other communications hereunder shall be in writing and shall be given by hand delivery to the other party or by registered or certified mail, return receipt requested, postage prepaid, addressed as follows:

If to the Executive:

Dean C. Athanasia [address]

If to the Company:

Bank of America Corporation NCI-007-21-02 100 N. Tryon St. Charlotte, NC 28255-0001 Attention: Executive Compensation

or such other address as either party shall have furnished to the other in writing in accordance herewith. Notice and communications shall be effective when actually received by the addressee.

(c) The invalidity or unenforceability of any provision of this Agreement shall not affect the validity or enforceability of any other provision of this Agreement.

- (d) The Company may withhold from any amounts payable under this Agreement such Federal, state or local taxes as shall be required to be withheld pursuant to any applicable law or regulation.
- (e) The Executive's failure to insist upon strict compliance with any provision hereof shall not be deemed to be a waiver of such provision or any other provision thereof.
- (f) This Agreement contains the entire understanding of the Company and the Executive with respect to the subject matter hereof and, from and after the date of the Effective Time, this Agreement shall supersede any other agreement between the parties, including FleetBoston and any other predecessors of the Company, with respect to the subject matter hereof, including without limitation the Original Agreement. Except for the Executive's rights under this Agreement, the Executive has no rights, and hereby waives all rights, under the Company's separation policy and any other employment, severance, change of control or severance protection agreement between the Company, its predecessors (including FleetBoston), and the Executive, including without limitation the Original Agreement.
- (g) Any amount payable at the death of the Executive under this Agreement shall be payable to any such beneficiary or beneficiaries as the Executive may designate in accordance with such administrative rules and procedures as the Company may establish from time to time.
- (h) For purposes of this Agreement, "affiliate" means any corporation, partnership or other business entity that is, directly or indirectly, controlled by or under common control with the Company or FleetBoston, as applicable, or their respective successors or assigns.

IN WITNESS WHEREOF, the Executive has executed this Agreement and the Company has caused this Agreement to be executed by its duly authorized officer as of the day and year first above-written.

/s/ Dean C. Athanasia 3/15/2004

Signature Date

BANK OF AMERICA CORPORATION

By: /s/ E. Randall Morrow

Name: E. Randall Morrow Title: Senior Vice President

ESA Retention Agreement

Executive's Employment Terms during the Employment Period

Name of Executive: Dean C. Athanasia

Section 1: Executive's Title and Position: CIO, Wealth & Investment Management

Section 2: Executive's Location: 100 Federal Street Boston, MA

Section 3: Executive's Annual Base Salary: \$240,000

Section 4: Deferred Amount: \$730,000

Approval of Exhibit A by the Parties:

Bank of America Corporation

/s/ E. Randall Morrow
Name: E.Randall Morrow

Title: Senior Vice President

CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002 FOR THE CHIEF EXECUTIVE OFFICER

I, Brian T. Moynihan, certify that:

- I have reviewed this Quarterly Report on Form 10-Q of Bank of America Corporation;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure
 that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly
 during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: April 26, 2019

/s/ Brian T. Moynihan Brian T. Moynihan Chief Executive Officer

CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002 FOR THE CHIEF FINANCIAL OFFICER

I, Paul M. Donofrio, certify that:

- I have reviewed this Quarterly Report on Form 10-Q of Bank of America Corporation;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure
 that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly
 during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: April 26, 2019

/s/ Paul M. Donofrio
Paul M. Donofrio
Chief Financial Officer

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

I, Brian T. Moynihan, state and attest that:

- 1. I am the Chief Executive Officer of Bank of America Corporation (the registrant).
- I hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:
 - the Quarterly Report on Form 10-Q of the registrant for the quarter endedMarch 31, 2019 (the periodic report) containing financial statements fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)); and
 - the information contained in the periodic report fairly presents, in all material respects, the financial condition and results of operations of the registrant.

 Date:
 April 26, 2019
 /s/ Brian T. Moynihan

 Brian T. Moynihan
 Brian T. Moynihan

Chief Executive Officer

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

I, Paul M. Donofrio, state and attest that:

- 1. I am the Chief Financial Officer of Bank of America Corporation (the registrant).
- I hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:
 - the Quarterly Report on Form 10-Q of the registrant for the quarter endedMarch 31, 2019 (the periodic report) containing financial statements fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)); and
 - the information contained in the periodic report fairly presents, in all material respects, the financial condition and results of operations of the registrant.

Date: April 26, 2019

/s/ Paul M. Donofrio Paul M. Donofrio Chief Financial Officer