UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-0

(Mark One)

 $\c|\c \c|$ QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the Quarterly Period Ended September 30, 2018

[] TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from to

Commission file number:

1-6523

Exact name of registrant as specified in its charter:

Bank of America Corporation

State or other jurisdiction of incorporation or organization:

Delaware

IRS Employer Identification No.:

56-0906609

Address of principal executive offices:

Bank of America Corporate Center 100 N. Tryon Street Charlotte, North Carolina 28255

Registrant's telephone number, including area code:

(704) 386-5681

Former name, former address and former fiscal year, if changed since last report:

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes ☑ No □

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files).

Yes ☑ No □

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer ☑	Accelerated filer □	Non-accelerated filer □	Smaller reporting company □
		Emerging growth company □	

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Exchange Act Rule 12b-2).

Yes □ No ☑

On October 26, 2018, there were 9,814,196,864 shares of Bank of America Corporation Common Stock outstanding.

Bank of America Corporation and Subsidiaries September 30, 2018 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 2017 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, including inquiries into our retail sales practices, and the possibility that amounts may be in excess of the Corporation's recorded liability and estimated range of possible loss for litigation 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, monolines, private-label and other investors, or other parties involved in securitizations; the possibility that future representations and warranties losses may occur in excess of the Corporation's recorded liability and estimated range of possible loss for its representations and warranties exposures; 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; 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, currency exchange rates, economic conditions, trade policies, including tariffs, and potential geopolitical instability; the impact on the Corporation's business, financial condition and results of operations of a potential higher interest rate environment; 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, net interest income expectations, or other projections; adverse changes to the Corporation's credit ratings from the major credit rating agencies; estimates of the fair value of certain of the Corporation's assets and liabilities, which may change; uncertainty regarding the content, timing and impact of regulatory capital and liquidity requirements; the potential impact of total loss-absorbing capacity requirements; potential adverse changes to our global systemically important bank surcharge; the potential impact of Federal Reserve actions on the Corporation's capital plans; the possible impact of the Corporation's failure to remediate a shortcoming identified by banking regulators in the Corporation's Resolution Plan; the effect of regulations, other guidance or additional information on our estimated impact of 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; and other

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 forward-looking 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 Glossary.

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 (GWM), 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 September 30, 2018, the Corporation had approximately \$2.3 trillion in assets and a headcount of approximately 205,000 employees.

As of September 30, 2018, we served clients through operations across the United States, its territories and more than 35 countries. Our retail banking footprint covers approximately 85 percent of the U.S. population, and we serve approximately 67 million consumer and small business clients with approximately 4,400 retail financial centers, approximately 16,100 ATMs, and

leading digital banking platforms (www.bankofamerica.com) with more than 36 million active users, including nearly 26 million active mobile users. We offer industry-leading support to approximately three million small business owners. Our wealth management businesses, with client balances of approximately \$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 Events

Capital Management

During the third quarter of 2018, we repurchased \$5.0 billion of common stock pursuant to the Board of Directors' (the Board) 2018 repurchase authorization of approximately \$20.6 billion announced on June 28, 2018. For additional information, see Capital Management on page 22. On July 26, 2018, the Board declared a quarterly common stock dividend of \$0.15 per share, payable on September 28, 2018 to shareholders of record as of September 7, 2018. Additionally, on October 24, 2018, the Board declared a quarterly common stock dividend of \$0.15 per share, payable on December 28, 2018 to shareholders of record as of December 7, 2018.

Financial Highlights

Table 1 Summary Income Statement and Selected Financial Data

	 Three Mo Septe			Nine Months Ended September 30				
(Dollars in millions, except per share information)	2018				2018		2017	
Income statement								
Net interest income	\$ 11,870	\$	11,161	\$	35,128	\$	33,205	
Noninterest income	10,907		10,678		33,383		33,711	
Total revenue, net of interest expense	22,777		21,839		68,511		66,916	
Provision for credit losses	716		834		2,377		2,395	
Noninterest expense	13,067		13,394		40,248		41,469	
Income before income taxes	8,994		7,611		25,886		23,052	
Income tax expense	1,827		2,187		5,017		7,185	
Net income	7,167		5,424		20,869		15,867	
Preferred stock dividends	466		465		1,212		1,328	
Net income applicable to common shareholders	\$ 6,701	\$	4,959	\$	19,657	\$	14,539	
Per common share information								
Earnings	\$ 0.67	\$	0.49	\$	1.93	\$	1.44	
Diluted earnings	0.66		0.46		1.91		1.36	
Dividends paid	0.15		0.12		0.39		0.27	
Performance ratios								
Return on average assets	1.23%		0.95%		1.20%		0.94%	
Return on average common shareholders' equity	10.99		7.89		10.86		7.91	
Return on average tangible common shareholders' equity (1)	15.48		10.98		15.30		11.10	
Efficiency ratio	57.37		61.33		58.75		61.97	
				Se	eptember 30 2018		December 31 2017	
Balance sheet								
Total loans and leases				\$	929,801	\$	936,749	
Total assets					2,338,833		2,281,234	
Total deposits					1,345,649		1,309,545	
Total common shareholders' equity					239,832		244,823	
Total shareholders' equity					262,158		267,146	

⁽¹⁾ Return on average tangible common shareholders' equity is a non-GAP financial measure. For more information and a corresponding reconciliation to accounting principles generally accepted in the United States of America (GAP) financial measures, see Non-GAP Reconciliations on page 52.

Net income was \$7.2 billion and \$20.9 billion, or \$0.66 and \$1.91 per diluted share for the three and nine months ended September 30, 2018 compared to \$5.4 billion and \$15.9 billion, or \$0.46 and \$1.36 per diluted share for the same periods in 2017. The improvement in net income for the three and nine months ended September 30, 2018 was driven by a decrease in income tax expense due to the impacts of the Tax Cuts and Jobs Act (the Tax Act), an increase in net interest income, higher noninterest income in the three-month period, lower provision for credit losses and a decline in noninterest expense, partially offset by a decline in noninterest income in the nine-month period. Impacts from the Tax Act include a reduction in the federal tax rate to 21 percent from 35 percent.

Total assets increased \$57.6 billion from December 31, 2017 to \$2.3 trillion at September 30, 2018 driven by higher cash and cash equivalents from liquidity management actions and an increase in securities borrowed or purchased under agreements to resell primarily due to short-term investments of cash largely resulting from deposit growth.

Total liabilities increased \$62.6 billion from December 31, 2017 to \$2.1 trillion at September 30, 2018 primarily driven by higher deposits due to organic growth and several large short-term

placements at the end of the quarter, increases in accrued expenses and other liabilities primarily due to trading-related payables, and higher trading account liabilities driven by client activity in *Global Markets*. Shareholders' equity decreased \$5.0 billion from December 31, 2017 primarily due to returns of capital to shareholders through common stock repurchases and common and preferred stock dividends, market value declines in debt securities and the redemption of preferred stock, partially offset by net income and issuances of preferred stock.

Net Interest Income

Net interest income increased \$709 million to \$11.9 billion, and \$1.9 billion to \$35.1 billion for the three and nine months ended September 30, 2018 compared to the same periods in 2017. The net interest yield increased eight basis points (bps) to 2.39 percent, and four bps to 2.36 percent for the same periods. These increases were primarily driven by higher interest rates as well as loan and deposit growth, partially offset by tightening spreads, and for the nine-month period, the impact of the sale of the non-U.S. consumer credit card business in the second quarter of 2017. For more information regarding interest rate risk management, see Interest Rate Risk Management for the Banking Book on page 49.

Noninterest Income

Table 2 Noninterest Income

		Three Months Ended September 30						nded 30
(Dollars in millions)		2018		2017		2018	2017	
Card income	\$	1,470	\$	1,429	\$	4,469	\$	4,347
Service charges		1,961		1,968		5,836		5,863
Investment and brokerage services		3,494		3,437		10,616		10,314
Investment banking income		1,204		1,477		3,979		4,593
Trading account profits		1,893		1,837		6,907		6,124
Other income		885		530		1,576		2,470
Total noninterest income	\$	10,907	\$	10,678	\$	33,383	\$	33,711

Noninterest income increased \$229 million to \$10.9 billion, and decreased \$328 million to \$33.4 billion for the three and nine months ended September 30, 2018 compared to the same periods in 2017. The following highlights the significant changes.

- Card income increased \$41 million and \$122 million primarily driven by an increase in credit and debit card spending, as well as increased late fees and annual fees, partially offset by higher rewards costs and lower cash advance fees, and for the nine-month period, the sale of the non-U.S. consumer credit card business.
- Investment and brokerage services income increased \$57 million and \$302 million primarily due to assets under management (AUM) flows and higher market valuations, partially offset by the impact of changing market dynamics on transactional revenue, and AUM pricing.
- Investment banking income decreased \$273 million and \$614 million primarily due
 to declines in leveraged finance and advisory fees, partially offset by an increase in
 equity underwriting fees.
- Trading account profits increased \$56 million for the three-month period primarily
 due to increased client activity in equity financing and derivatives, partially offset by
 weakness in rates products and municipal bonds, and increased \$783 million for
 the nine-month period primarily due to increased client activity in equity financing
 and derivatives, and strong trading performance in equity derivatives and macrorelated products, partially offset by weakness in credit products.
- Other income increased \$355 million for the three-month period primarily due to increased results from economic hedging activities, lower provision for representations and warranties and a gain on the sale of an equity investment. The \$894 million decrease for the nine-month period also reflected a \$729 million charge related to the redemption of certain trust preferred securities, partially offset by \$656 million of gains on the sale of certain loans, primarily non-core. The nine-month period in 2017 included a \$793 million pretax gain recognized in connection with the sale of the non-U.S. consumer credit card business.

Provision for Credit Losses

The provision for credit losses decreased \$118 million to \$716 million for the three months ended September 30, 2018 compared to the same period in 2017 primarily due to asset quality improvement in the commercial portfolio including energy exposures and a lower reserve build in the U.S. credit card portfolio. The provision for credit losses decreased \$18 million to \$2.4 billion for the nine months ended September 30, 2018

compared to the same period in 2017 primarily due to asset quality improvement in the commercial portfolio including energy exposures and the impact of the sale of the non-U.S. consumer credit card business during the second quarter of 2017, largely offset by portfolio seasoning and loan growth in the U.S. credit card portfolio and a slower pace of improvement in the consumer real estate portfolio. For more information on the provision for credit losses, see Provision for Credit Losses on page 44.

Noninterest Expense

Table 3 Noninterest Expense

	Three Months Ended September 30					Nine Months Ended September 30				
(Dollars in millions)		2018		2017		2018		2017		
Personnel	\$	7,721	\$	7,811	\$	24,145	\$	24,326		
Occupancy		1,015		999		3,051		3,000		
Equipment		421		416		1,278		1,281		
Marketing		421		461		1,161		1,235		
Professional fees		439		476		1,219		1,417		
Data processing		791		777		2,398		2,344		
Telecommunications		173		170		522		538		
Other general operating		2,086		2,284		6,474		7,328		
Total noninterest expense	\$	13,067	\$	13,394	\$	40,248	\$	41,469		

Noninterest expense decreased \$327 million to \$13.1 billion and \$1.2 billion to \$40.2 billion for the three and nine months ended September 30, 2018 compared to the same periods in 2017. The decrease for both periods was primarily due to lower other general operating expense, primarily driven by a decline in litigation expense and, for the nine-month period, a \$295 million impairment charge recognized in the second quarter of 2017 related to certain data centers. Personnel expense also declined for both periods.

Income Tax Expense

Table 4 Income Tax Expense

	 Three Months Ended September 30					Nine Months Ended September 30					
allars in millions)	2018		2017		2018	2017					
ne before income taxes	\$ 8,994	\$	7,611	\$	25,886	\$	23,052				
tax expense	1,827		2,187		5,017		7,185				
x rate	20.3%		28.7%		19.4%		31.2%				

The effective tax rates for the three and nine months ended September 30, 2018 reflect the 21 percent federal tax rate and the other provisions of the Tax Act, as well as the impact of our recurring tax preference benefits. The nine-month effective rate also included tax benefits related to stock-based compensation.

The effective tax rates for the three and nine months ended September 30, 2017 were driven by the impact of our recurring

tax preference benefits. The nine-month effective tax rate also included a tax charge related to the sale of the non-U.S. consumer credit card business during the second quarter of 2017, partially offset by tax benefits related to stock-based compensation recognized earlier in the year.

We expect the effective tax rate for 2018 to be approximately 20 percent, absent unusual items.

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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 a fully taxable equivalent (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 for 2018 (35 percent for all prior periods) and a representative state tax rate. In addition, certain performance measures, including the efficiency ratio and net interest yield, utilize net interest income (and thus total revenue) on an FTE basis. The efficiency ratio measures the costs expended to generate a dollar of revenue, and net interest yield measures the bps we earn over the cost of funds. 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 certain acquired 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 earnings
 contribution as a percentage of adjusted common shareholders' equity. The
 tangible common equity ratio represents adjusted ending common shareholders'
 equity divided by total assets less goodwill and certain acquired intangible assets
 (excluding MSRs), net of related deferred tax liabilities.
- Return on average tangible shareholders' equity measures our earnings
 contribution 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 certain acquired 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 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 GAAP financial measures, see Non-GAAP Reconciliations on page 52.

Table 5

Selected Quarterly Financial Data

		2018 Quarters			2017 Quarters					
(In millions, except per share information)		Third		Second	First		Fourth	-	Third	
Income statement										
Net interest income	\$	11,870	\$	11,650	\$ 11,608	\$	11,462	\$	11,161	
Noninterest income (1)		10,907		10,959	11,517		8,974		10,678	
Total revenue, net of interest expense		22,777		22,609	23,125		20,436		21,839	
Provision for credit losses		716		827	834		1,001		834	
Noninterest expense		13,067		13,284	13,897		13,274		13,394	
Income before income taxes		8,994		8,498	8,394		6,161		7,611	
Income tax expense (1)		1,827		1,714	1,476		3,796		2,187	
Net income (1)		7,167		6,784	6,918		2,365		5,424	
Net income applicable to common shareholders		6,701		6,466	6,490		2,079		4,959	
Average common shares issued and outstanding		10,031.6		10,181.7	10,322.4		10,470.7		10,197.9	
Average diluted common shares issued and outstanding		10,170.8		10,309.4	10,472.7		10,621.8		10,746.7	
Performance ratios										
Return on average assets		1.23%		1.17%	1.21%		0.41%		0.95%	
Four quarter trailing return on average assets (2)		1.00		0.93	0.86		0.80		0.91	
Return on average common shareholders' equity		10.99		10.75	10.85		3.29		7.89	
Return on average tangible common shareholders' equity (3)		15.48		15.15	15.26		4.56		10.98	
Return on average shareholders' equity		10.74		10.26	10.57		3.43		7.88	
Return on average tangible shareholders' equity (3)		14.61		13.95	14.37		4.62		10.59	
Total ending equity to total ending assets		11.21		11.53	11.43		11.71		11.91	
Total average equity to total average assets		11.42		11.42	11.41		11.87		12.03	
Dividend payout		22.35		18.83	19.06		60.35		25.59	
Per common share data										
Earnings	\$	0.67	\$	0.64	\$ 0.63	\$	0.20	\$	0.49	
Diluted earnings		0.66		0.63	0.62		0.20		0.46	
Dividends paid		0.15		0.12	0.12		0.12		0.12	
Book value		24.33		24.07	23.74		23.80		23.87	
Tangible book value (3)		17.23		17.07	16.84		16.96		17.18	
Market price per share of common stock										
Closing	\$	29.46	\$	28.19	\$ 29.99	\$	29.52	\$	25.34	
High closing		31.80		31.22	32.84		29.88		25.45	
Low closing		27.78		28.19	29.17		25.45		22.89	
Market capitalization	\$	290,424	\$	282,259	\$ 305,176	\$	303,681	\$	264,992	
Average balance sheet				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			
Total loans and leases	\$	930,736	\$	934,818	\$ 931,915	\$	927,790	\$	918,129	
Total assets		2,317,829		2,322,678	2,325,878		2,301,687		2,271,104	
Total deposits		1,316,345		1,300,659	1,297,268		1,293,572		1,271,711	
Longtermdebt		233,475		229,037	229,603		227,644		227,309	
Dig ciliracs.										
Common shareholders' equity		241,812		241,313	242,713		250,838		249,214	
Total shareholders' equity		264,653		265,181	265,480		273,162		273,238	
Asset quality										
Allowance for credit losses (4)	\$	10,526	\$	10,837	\$ 11,042	\$	11,170	\$	11,455	
Nonperforming loans, leases and foredosed properties (5)		5,449		6,181	6,694		6,758		6,869	
Allowance for loan and lease losses as a percentage of total loans and leases outstanding (5)		1.05%		1.08%	1.11%		1.12%		1.16%	
Allowance for loan and lease losses as a percentage of total nonperforming loans and leases (5)		189		170	161		161		163	
Net charge-offs (6)	\$	932	\$	996	\$ 911	\$	1,237	\$	900	
Annualized net charge-offs as a percentage of average loans and leases outstanding (5, 6)	-	0.40%		0.43%	0.40%		0.53%		0.39%	
Capital ratios at period end (7)										
Common equity tier 1 capital		11.4%		11.4%	11.3%		11.5%		11.9%	
Tier 1 capital		12.9		13.0	13.0		13.0		13.4	
		14.7								
Total capital				14.8	14.8		14.8		15.1	
Tier 1 leverage		8.3		8.4	8.4		8.6		8.9	
Supplementary leverage ratio		6.7		6.7	6.8		n/a		n/a	

8.5 8.7 8.9 Tangble equity (3) 8.7 9.1 Tangble common equity (3) 7.7 7.9 8.1

Tangible common equity (3)

7.5

7.6

7.9

8.1

1) Net income for the fourth quarter of 2017 included a charge of \$2.9 billion related to the Tax Act effects which consisted of \$946 million in noninterest income and \$1.9 billion income tax expense.

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

3) Targible equity ratios and tangible book value per share of common stock are non-GAP financial measures. For more information on these ratios, see Supplemental Financial Data on page 6, and for corresponding reconciliations to GAP financial measures, see Non-GAP financial measures and four season and ratios do not include learning commitments.

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

5) Balances and ratios do not include learns accounted for under the fair value option. For additional edulusions from nonperforming loans, leases and foreclosed properties, see Consumer Portfolio Credit Risk Management. – Nonperforming Commercial Loans, Leases and Foreclosed Properties Addivity on page 36 and corresponding Table 25 and Commercial Portfolio Credit Risk Management. – Nonperforming Commercial Loans, Leases and Foreclosed Properties Addivity on page 40 and corresponding Table 35.

Not charge-offs exclude \$59 million, \$38 million, \$48 million of write-offs in the purchased or credit-impaired (PCI) loan portfolio in the third, second and first quarters of 2018, and in the fourth and third quarters of 2017, respectively. For more information, see Consumer Portfolio Credit Risk Management. – Purchased Credit-impaired Loan Portfolio on page 34.

7) Based 3 transition provisions for regulatory capital adjustments and deductions were fully phesed in as of January 1, 2018. Prior periods are presented on a fully phesed in basis. For more information, including which approach is used to assess capi

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Table 6 Selected Year-to-Date Financial Data

	Nine Months End	nded September 30		
(In millions, except per share information)	2018		2017	
Income statement				
Net interest income	\$ 35,128	\$	33,205	
Noninterest income	33,383		33,711	
Total revenue, net of interest expense	68,511		66,916	
Provision for credit losses	2,377		2,395	
Noninterest expense	40,248		41,469	
Income before income taxes	25,886		23,052	
Income tax expense	5,017		7,185	
Net income	20,869		15,867	
Net income applicable to common shareholders	19,657		14,539	
Average common shares issued and outstanding	10,177.5		10,103.4	
Average diluted common shares issued and outstanding	10,317.9		10,832.1	
Performance ratios				
Return on average assets	1.20%		0.94%	
Return on average common shareholders' equity	10.86		7.91	
Return on average tangible common shareholders' equity (1)	15.30		11.10	
Return on average shareholders' equity	10.52		7.84	
Return on average tangible shareholders' equity (1)	14.31		10.61	
Total ending equity to total ending assets	11.21		11.91	
Total average equity to total average assets	11.42		11.99	
Dividend payout	20.10		19.08	
Per common share data				
Earnings	\$ 1.93	\$	1.44	
Diluted earnings	1.91		1.36	
Dividends paid	0.39		0.27	
Book value	24.33		23.87	
Tangible book value (1)	17.23		17.18	
Market price per share of common stock				
Closing	\$ 29.46	\$	25.34	
High dosing	32.84		25.50	
Low dosing	27.78		22.05	
Market capitalization	\$ 290,424	\$	264,992	

Market capitalization \$290,424 \$264,992 (1) Tangible equily ratios and tangible book value per share of common stock are non-GAPP financial measures. For more information on these ratios and for corresponding reconciliations to GAPP financial measures, see Non-GAPP Reconciliations on page 52.

Table 7 **Quarterly Average Balances and Interest Rates - FTE Basis**

	Average Balance		Interest Income/ Expense	Yield/ Rate	Average Balance	Interest Income/ Expense	Yield/ Rate
(Dollars in millions)		Third	Quarter 2018			Third Quarter 2017	
Earning assets							
Interest-bearing deposits with the Federal Reserve, non-U.S. central banks and other banks	\$ 144,4	11 \$	523	1.44%	\$ 127,835	\$ 323	1.00%
Time deposits placed and other short-term investments	8,3	28	48	2.26	12,503	68	2.17
Federal funds sold and securities borrowed or purchased under agreements to resell (1)	241,4	26	799	1.31	223,585	487	0.86
Trading account assets	128,8	96	1,195	3.68	124,068	1,125	3.60
Debt securities	445,8	13	3,014	2.66	436,886	2,670	2.44
Loans and leases (2):							
Residential mortgage	209,4	60	1,857	3.54	199,240	1,724	3.46
Home equity	53,0	50	656	4.91	61,225	664	4.31
U.S. credit card	94,7	10	2,435	10.20	91,602	2,253	9.76
Direct/Indirect and other consumer (3)	91,8	28	787	3.40	96,272	706	2.91
Total consumer	449,0	48	5,735	5.08	448,339	5,347	4.74
U.S. commercial	303,6	80	3,034	3.97	293,203	2,542	3.44
Non-U.S. commercial	96,0	19	831	3.43	95,725	676	2.80
Commercial real estate (4)	60,7	54	682	4.45	59,044	552	3.71
Commercial lease financing	21,2	35	173	3.25	21,818	160	2.92
Total commercial	481,6	88	4,720	3.89	469,790	3,930	3.32
Total loans and leases	930,7		10,455	4.46	918,129	9,277	4.02
Other earning assets (1)	72,8		1,082	5.91	76,496	849	4.41
Total earning assets (1,5)	1,972,4		17,116	3.45	1,919,502	14,799	3.06
Cash and due from banks	25,6		17,110	3.43	28,990	14,755	3.00
Other assets, less allowance for loan and lease losses	319,7				322,612		
Total assets	\$ 2,317,8				\$ 2,271,104		
Savings NOWand money market deposit accounts Consumer CDs and IRAs	\$ 53,9 680,2 39,1	85	1 737 40	0.43	\$ 54,328 631,270	\$ 1 333	0.019
				0.41	44,239	31	0.27
Negotiable CDs, public funds and other deposits	54,1		275	2.01	38,119	101	1.05
Total U.S. interest-bearing deposits	54,1 827,5						
Total U.S. interest-bearing deposits			275	2.01	38,119	101	1.05
	827,5 2,3	53	275	2.01	38,119	101	1.05
Total U.S. interest-bearing deposits Non-U.S. interest-bearing deposits:	827,5 2,3 7	53 09	275 1,053 12 —	2.01 0.50 2.06 0.01	38,119 767,956 2,259 1,012	101 466 5 3	105 0.24 0.97 1.04
Total U.S. interest-bearing deposits Non-U.S. interest-bearing deposits: Banks located in non-U.S. countries	827,5 2,3	53 09	275 1,053	2.01 0.50 2.06	38,119 767,956 2,259	101 466 5	105 0.24 0.97 1.04
Total U.S. interest-bearing deposits Non-U.S. interest-bearing deposits: Banks located in non-U.S. countries Governments and official institutions	827,5 2,3 7	66 53 09 79	275 1,053 12 —	2.01 0.50 2.06 0.01	38,119 767,956 2,259 1,012	101 466 5 3	105 0.24 0.97 1.04
Total U.S. interest-bearing deposits Non-U.S. interest-bearing deposits: Banks located in non-U.S. countries Governments and official institutions Time, savings and other Total non-U.S. interest-bearing deposits Total interest-bearing deposits	827,5 2,3 7 63,1	66 53 09 79	275 1,053 12 — 165	2.01 0.50 2.06 0.01 1.04	38,119 767,966 2,259 1,012 63,716	101 466 5 3 150	1.05 0.24 0.97 1.04 0.93
Total U.S. interest-bearing deposits Non-U.S. interest-bearing deposits: Banks located in non-U.S. countries Governments and official institutions Time, savings and other Total non-U.S. interest-bearing deposits Total interest-bearing deposits Federal funds purchased, securities loaned or sold under agreements to repurchase, short-term	827,5 2,3 7 63,1 66,2 893,8	53 09 79 41	275 1,053 12 - 165 177 1,230	2.01 0.50 2.06 0.01 1.04 1.07	38,119 767,956 2,259 1,012 63,716 66,987 834,943	101 466 5 3 150 158	1.05 0.24 0.97 1.04 0.93 0.93
Total U.S. interest-bearing deposits Non-U.S. interest-bearing deposits: Banks located in non-U.S. countries Governments and official institutions Time, savings and other Total non-U.S. interest-bearing deposits Total interest-bearing deposits	827,5 2,3 7 63,1 66,2	53 09 79 41 07	275 1,053 12 - 165 177	2.01 0.50 2.06 0.01 1.04 1.07	38,119 767,956 2,259 1,012 63,716 66,987	101 466 5 3 150 158 624	1.05 0.24 0.97 1.04 0.93 0.93 0.30
Total U.S. interest-bearing deposits Non-U.S. interest-bearing deposits: Banks located in non-U.S. countries Governments and official institutions Time, savings and other Total non-U.S. interest-bearing deposits Total interest-bearing deposits Federal funds purchased, securities loaned or sold under agreements to repurchase, short-term borrowings and other interest-bearing liabilities (1)	827,5 2,3 7 63,1 66,2 893,8 264,1	53 09 79 41 07 68	275 1,053 12 - 165 177 1,230	2.01 0.50 2.06 0.01 1.04 1.07 0.55	38,119 767,956 2,259 1,012 63,716 66,987 834,943 270,364	101 466 5 3 150 158 624	1.05 0.24 0.97 1.04 0.93 0.93 0.30 1.24 2.62
Total U.S. interest-bearing deposits Non-U.S. interest-bearing deposits: Banks located in non-U.S. countries Governments and official institutions Time, savings and other Total non-U.S. interest-bearing deposits Total interest-bearing deposits Federal funds purchased, securities loaned or sold under agreements to repurchase, short-term borrowings and other interest-bearing liabilities (1) Trading account liabilities Longterm debt	827,5 2,3 7 63,1 66,2 893,8 264,1 50,9 233,4	53 53 59 79 41 507 68 68	275 1,053 12 - 165 177 1,230 1,526 335 2,004	2.01 0.50 2.06 0.01 1.04 1.07 0.55 2.30 2.60 3.42	38,119 767,956 2,259 1,012 63,716 66,987 834,943 270,364 48,390 227,309	101 466 5 3 150 158 624 846 319 1,609	1.05 0.24 0.97 1.04 0.93 0.93 0.30 1.24 2.62 2.82
Total U.S. interest-bearing deposits Non-U.S. interest-bearing deposits: Banks located in non-U.S. countries Governments and official institutions Time, savings and other Total non-U.S. interest-bearing deposits Total interest-bearing deposits Federal funds purchased, securities loaned or sold under agreements to repurchase, short-term borrowings and other interest-bearing liabilities (1) Trading account liabilities Longterm debt Total interest-bearing liabilities (1,5)	827,5 2,3 7 63,1 66,2 893,8 264,1 50,9	53 53 59 79 41 507 68 68	275 1,053 12 - 165 177 1,230 1,526 335	2.01 0.50 2.06 0.01 1.04 1.07 0.55 2.30	38,119 767,956 2,259 1,012 63,716 66,987 834,943 270,364 48,390	101 466 5 3 150 158 624 846 319	1.05 0.24 0.97 1.04 0.93 0.93 0.30 1.24 2.62 2.82
Total U.S. interest-bearing deposits Non-U.S. interest-bearing deposits: Banks located in non-U.S. countries Governments and official institutions Time, savings and other Total non-U.S. interest-bearing deposits Total interest-bearing deposits Federal funds purchased, securities loaned or sold under agreements to repurchase, short-term borrowings and other interest-bearing liabilities (1) Trading account liabilities Longterm debt Total interest-bearing liabilities (1,5) Noninterest-bearing sources:	827,5 2,3 7 63,1 66,2 893,8 264,1 50,9 233,4 1,442,3	53 09 79 41 07 68 04 75	275 1,053 12 - 165 177 1,230 1,526 335 2,004	2.01 0.50 2.06 0.01 1.04 1.07 0.55 2.30 2.60 3.42	38,119 767,956 2,259 1,012 63,716 66,987 834,943 270,364 48,390 227,309	101 466 5 3 150 158 624 846 319 1,609	1.05 0.24 0.97 1.04 0.93 0.93
Total U.S. interest-bearing deposits Non-U.S. interest-bearing deposits: Banks located in non-U.S. countries Governments and official institutions Time, savings and other Total non-U.S. interest-bearing deposits Total interest-bearing deposits Federal funds purchased, securities loaned or sold under agreements to repurchase, short-term borrowings and other interest-bearing liabilities (1) Trading account liabilities Longterm debt Total interest-bearing liabilities (1,5) Noninterest-bearing sources: Noninterest-bearing deposits	827,5 2,3 7 63,1 66,2 893,8 264,1 50,9 233,4 1,442,3	53 09 79 41 07 68 04 75 54	275 1,053 12 - 165 177 1,230 1,526 335 2,004	2.01 0.50 2.06 0.01 1.04 1.07 0.55 2.30 2.60 3.42	38,119 767,956 2,259 1,012 63,716 66,987 834,943 270,364 48,390 227,309 1,381,006	101 466 5 3 150 158 624 846 319 1,609	1.05 0.24 0.97 1.04 0.93 0.93 0.30 1.24 2.62 2.82
Total U.S. interest-bearing deposits Non-U.S. interest-bearing deposits: Banks located in non-U.S. countries Governments and official institutions Time, savings and other Total non-U.S. interest-bearing deposits Total interest-bearing deposits Federal funds purchased, securities loaned or sold under agreements to repurchase, short-term borrowings and other interest-bearing liabilities (1) Trading account liabilities Longterm debt Total interest-bearing liabilities (1,5) Noninterest-bearing sources: Noninterest-bearing deposits Other liabilities (1)	827,5 2,3 7 63,1 66,2 893,8 264,1 50,9 233,4 1,442,3	666 53 09 79 41 07 68 04 75 54	275 1,053 12 - 165 177 1,230 1,526 335 2,004	2.01 0.50 2.06 0.01 1.04 1.07 0.55 2.30 2.60 3.42	38,119 767,956 2,259 1,012 63,716 66,987 834,943 270,364 48,390 227,309 1,381,006	101 466 5 3 150 158 624 846 319 1,609	1.05 0.24 0.97 1.04 0.93 0.93 0.30 1.24 2.62 2.82
Total U.S. interest-bearing deposits Non-U.S. interest-bearing deposits: Banks located in non-U.S. countries Governments and official institutions Time, savings and other Total non-U.S. interest-bearing deposits Total interest-bearing deposits Federal funds purchased, securities loaned or sold under agreements to repurchase, short-term borrowings and other interest-bearing liabilities (1) Trading account liabilities Longterm debt Total interest-bearing liabilities (1,5) Noninterest-bearing sources: Noninterest-bearing deposits Other liabilities (1) Shareholders' equity	827,5 2,3 7 63,1 66,2 893,8 264,1 50,9 233,4 1,442,3 422,5 188,2 264,6	566 53 09 79 41 007 68 004 75 54	275 1,053 12 - 165 177 1,230 1,526 335 2,004	2.01 0.50 2.06 0.01 1.04 1.07 0.55 2.30 2.60 3.42	38,119 767,956 2,259 1,012 63,716 66,987 834,943 270,364 48,390 227,309 1,381,006 436,768 180,092 273,238	101 466 5 3 150 158 624 846 319 1,609	1.05 0.24 0.97 1.04 0.93 0.93 0.30 1.24 2.62 2.82
Total U.S. interest-bearing deposits Non-U.S. interest-bearing deposits: Banks located in non-U.S. countries Governments and official institutions Time, savings and other Total non-U.S. interest-bearing deposits Total interest-bearing deposits Federal funds purchased, securities loaned or sold under agreements to repurchase, short-term borrowings and other interest-bearing liabilities (1) Trading account liabilities Longterm debt Total interest-bearing liabilities (1,5) Noninterest-bearing sources: Noninterest-bearing deposits Other liabilities (1) Shareholders' equity Total Ilabilities and shareholders' equity	827,5 2,3 7 63,1 66,2 893,8 264,1 50,9 233,4 1,442,3	566 53 09 79 41 007 68 004 75 54	275 1,053 12 - 165 177 1,230 1,526 335 2,004	2.01 0.50 2.06 0.01 1.04 1.07 0.55 2.30 2.60 3.42 1.40	38,119 767,956 2,259 1,012 63,716 66,987 834,943 270,364 48,390 227,309 1,381,006	101 466 5 3 150 158 624 846 319 1,609	1.06 0.24 0.97 1.04 0.93 0.93 0.30 1.24 2.62 2.82 0.98
Total U.S. interest-bearing deposits Non-U.S. interest-bearing deposits: Banks located in non-U.S. countries Governments and official institutions Time, savings and other Total non-U.S. interest-bearing deposits Total interest-bearing deposits Federal funds purchased, securities loaned or sold under agreements to repurchase, short-term borrowings and other interest-bearing liabilities (1) Trading account liabilities Long term debt Total interest-bearing liabilities (1,5) Noninterest-bearing sources: Noninterest-bearing deposits Other liabilities (1) Shareholders' equity	827,5 2,3 7 63,1 66,2 893,8 264,1 50,9 233,4 1,442,3 422,5 188,2 264,6	566 53 09 79 41 007 68 004 75 54	275 1,053 12 - 165 177 1,230 1,526 335 2,004	2.01 0.50 2.06 0.01 1.04 1.07 0.55 2.30 2.60 3.42	38,119 767,956 2,259 1,012 63,716 66,987 834,943 270,364 48,390 227,309 1,381,006 436,768 180,092 273,238	101 466 5 3 150 158 624 846 319 1,609	105 0.24 0.97 1.04 0.93 0.93 0.30 1.24 2.62 2.82

⁽¹⁾ Cartain prior-period amounts have been reclassified to conform to current period presentation.

(2) Norperforming loans are included in the respective average loan balances, income on these nonperforming loans is generally recognized on a cost recovery basis. PCI loans are recorded at fair value upon acquisition and accrete interest income over the estimated life of the loan.

(3) Includes non-U.S. consumer loans of \$2.8 billion and \$2.9 billion in the third quarter of 2018 and 2017.

(4) Includes U.S. commercial real estate loans of \$56.8 billion and \$56.2 billion and \$55.2 billion, and non-U.S. commercial real estate loans of \$4.0 billion and \$3.8 billion in the third quarter of 2018 and 2017, respectively.

(5) Interest income includes the impact of interest rate risk management contracts, which increased (decreased interest expense on the underlying liabilities by \$68 million in the third quarter of 2018 and 2017. For more information, see Interest Rate Risk Management for the Banking Book on page 49.

Table 8 **Year-to-Date Average Balances and Interest Rates - FTE Basis**

	Averag Balanc		Interest Income/ Expense	Yield/ Rate		Average Balance		Interest Income/ Expense	Yield/ Rate
			N	line Months End	ed Se	ptember 30			
(Dollars in millions)			2018					2017	
Earning assets									
$Interest-bearing {\it deposits} {\it with the Federal Reserve}, non-U.S. {\it central banks} {\it and other banks} {\it central $	\$ 143 ,	229	\$ 1,432	1.34%	\$	127,000	\$	786	0.839
Time deposits placed and other short-term investments	9,	700	157	2.16		11,820		173	196
Federal funds sold and securities borrowed or purchased under agreements to resell (1)	247,	L83	2,130	1.15		222,255		1,278	0.77
Trading account assets	130,	931	3,574	3.65		128,547		3,435	3.57
Debt securities	436,	080	8,729	2.62		432,775		7,875	2.42
Loans and leases (2):									
Residential mortgage	206,	308	5,437	3.51		196,288		5,082	3.45
Home equity	54,	941	1,939	4.72		63,339		1,967	4.15
U.S. credit card	94,	222	7,046	10.00		90,238		6,492	9.62
Non-U.S. credit card (3)		-	_	_		5,253		358	9.12
Direct/Indirect and other consumer (4)	93,	568	2,281	3.26		95,964		2,010	2.80
Total consumer	449,	539	16,703	4.96		451,082		15,909	4.71
U.S. commercial	302,	981	8,734	3.85		290,632		7,167	3.30
Non-U.S. commercial	98,	246	2,385	3.25		93,762		1,886	2.69
Commercial real estate (5)	60,	218	1,915	4.25		58,340		1,545	3.54
Commercial lease financing	21,	501	516	3.20		21,862		547	3.33
Total commercial	482,	946	13,550	3.75		464,596		11,145	3.21
Total loans and leases (3)	932,		30,253	4.34		915,678		27,054	3.95
Other earning assets (1)	78,		3,113	5.31		74,554		2,322	4.16
	-				_			42,923	
Total earning assets (1,6)	1,978,		49,388	3.34		1,912,629		42,923	3.00
Cash and due frombanks	25,					27,955			
Other assets, less allowance for loan and lease losses	318,					316,909			
Total assets	\$ 2,322,)99			\$	2,257,493			
Interest-bearing liabilities									
U.S. interest-bearing deposits:	÷ 54	200		0.040/	Φ.	F2.670	Φ.	4	0.01
Savings	\$ 54,		\$ 4		\$	53,679	\$	4	0.01
NOWand money market deposit accounts	667,		1,679	0.34		622,920		512	0.11
Consumer CDs and IRAs	40,		109	0.36		45,535		92	0.27
Negotiable CDs, public funds and other deposits	46,		629	1.81		35,968		221	0.82
Total U.S. interest-bearing deposits	809,	292	2,421	0.40		758,102		829	0.15
Non-U.S. interest-bearing deposits:									
Banks located in non-U.S. countries		309	32	1.88		2,643		16	0.82
Governments and official institutions		990	_	0.01		1,002		7	0.92
Time, savings and other	65,		480	0.98		60,747		400	0.88
Total non-U.S. interest-bearing deposits	68,	563	512	1.00		64,392		423	0.88
Total interest-bearing deposits	877,	355	2,933	0.45		822,494		1,252	0.20
Federal funds purchased, securities loaned or sold under agreements to repurchase, short-term borrowings and other interest-bearing liabilities (1)	272,	L92	4,123	2.03		275,731		2,244	1.09
Trading account liabilities	52,		1,040	2.63		44,128		890	2.70
Longtermdebt	230,	719	5,709	3.30		224,287		4,658	2.77
Total interest-bearing liabilities (1,6)	1,433,		13,805	1.29		1,366,640		9,044	0.88
_	,		,					•	
Noninterest-bearing sources:						439,288			
-	426	972				,			
Noninterest-bearing deposits	426, 196.					180.907			
Noninterest-bearing deposits Other liabilities (1)	196,	144				180,907 270,658			
Noninterest-bearing deposits Other liabilities (1) Shareholders' equity	196, 265,	144 102			\$	270,658			
Noninterest-bearing deposits Other liabilities (1) Shareholders' equity Total liabilities and shareholders' equity	196,	144 102		0.050	\$				0.40
Other liabilities (1) Shareholders' equity	196, 265,	144 102		2.05% 0.34	\$	270,658			2.12 0.24

⁽¹⁾ Certain prior-period amounts have been reclassified to conform to current period presentation.
(2) Notperforming loans are included in the respective average loan balances. Income on these norperforming loans is generally recognized on a cost recovery basis. PCI loans were recorded at fair value upon acquisition and accrete interest income over the estimated life of the loan.
(3) The nine months ended September 30, 2017 includes assets of the Corporation's non-U.S. consumer credit card business, which was sold during the second quarter of 2017.

(4) Includes non-U.S. consumer loans of \$2.9 billion in both the nine months ended September 30, 2018 and 2017.

(5) Includes U.S. commercial real estate loans of \$56.2 billion and \$55.0 billion, and non-U.S. commercial real estate loans of \$4.0 billion and \$3.4 billion for the rine months ended September 30, 2018 and 2017, respectively.

(6) Interest income includes the impact of interest, rate risk management contracts, which decreased interest income on the underlying assets by \$113 million and \$48 million for the rine months ended September 30, 2018 and 2017. Interest expense includes the impact of interest rate risk management contracts, which decreased interest expense on the underlying liabilities by \$103 million and \$1.1 billion for the rine months ended September 30, 2018 and 2017. For additional information, see Interest Rate Risk Management for the Banking Book on page 49.

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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 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 22. 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 the basis of presentation for business segments and reconciliations to consolidated total revenue, net income and period-end total assets, see Note 17 - Business Segment Information to the Consolidated Financial Statements.

Consumer Banking

	Deposits			Consu	mer Lending	Total Co	Total Consumer Banking				
				Three Months E	nded September 3	0		_			
(Dollars in millions)		2018	2017	2018	2017	2018	2017	%Change			
Net interest income (FTE basis)	\$	4,068	\$ 3,440	\$ 2,795	5 \$ 2,772	2 \$ 6,86	33 \$ 6,212	10%			
Noninterest income:											
Card income		2	1	1,279	1,242	2 1,2 8	31 1,243	3			
Service charges		1,097	1,082	1	L –	- 1,09	98 1,082	1			
All other income		100	97	61	L 140) 10	31 237	(32)			
Total noninterest income		1,199	1,180	1,341	L 1,382	2,5	10 2,562	(1)			
Total revenue, net of interest expense (FTE basis)		5,267	4,620	4,136	4,154	9,40)3 8,774	7			
Provision for credit losses		48	47	822	920	9	70 967	(10)			
Noninterest expense		2,618	2,617	1,737	1,844	4,3	55 4,461	(2)			
Income before income taxes (FTE basis)		2,601	1,956	1,577	1,390) 4,1	78 3,346				
Income tax expense (FTE basis)		663	737	402	2 523	1,00	35 1,260	(15)			
Net income	\$	1,938	\$ 1,219	\$ 1,175	5 \$ 867	7 \$ 3,1 :	13 \$ 2,086	49			
Effective tax rate (FTE basis) (1)						25	.5% 37.7	%			
Net interest yield (FTE basis)		2.35%	2.08%	3.95	5% 4.16	3.	78 3.56				
Return on average allocated capital		64	40	19	14	1 :	33 22				
Efficiency ratio (FTE basis)		49.70	56.65	41.97	44.40	46.3	50.85				

Balance Sheet

Three Months Ended September 30

Average	2018	2017	2018	2017	2018	2017	%Change
Total loans and leases	\$ 5,269 \$	5,079	279,725 \$	263,731 \$	284,994 \$	268,810	6%
Total earning assets (2)	685,662	657,036	280,637	264,665	720,652	692,122	4
Total assets (2)	713,942	684,642	291,370	276,014	759,665	731,077	4
Total deposits	681,726	652,286	5,804	6,688	687,530	658,974	4
Allocated capital	12,000	12,000	25,000	25,000	37,000	37,000	_

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⁽¹⁾ Estimated at the segment level 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.

		Deposits				Consum	er Len	nding	Total Consur	mer Banking	
	-				Ni	ne Months End	led Se	ptember 30			
Dollars in millions)		2018		2017		2018		2017	2018	2017	%Change
Net interest income (FTE basis)	\$	11,728	\$	9,804	\$	8,265	\$	8,149	\$ 19,993	\$ 17,953	119
Noninterest income:											
Card income		6		6		3,896		3,710	3,902	3,716	5
Service charges		3,213		3,193		1		1	3,214	3,194	1
All other income		310		294		227		410	537	704	(24)
Total noninterest income		3,529		3,493		4, <u>12</u> 4		4,121	7,653	7,614	1
Total revenue, net of interest expense (FTE basis)		15,257		13,297		12,389		12,270	27,646	25,567	8
Provision for credit losses		135		148		2,614		2,491	2,749	2,639	4
Noninterest expense		7,907		7,708		5,324		5,578	13,231	13,286	_
Income before income taxes (FTE basis)		7,215		5,441		4,451		4,201	11,666	9,642	21
ncome tax expense (FTE basis)		1,840		2,052		1,135		1,584	2,975	3,636	(18)
Net income	\$	5,375	\$	3,389	\$	3,316	\$	2,617	\$ 8,691	\$ 6,006	45
Effective tax rate (FTE basis) (1)									25.5%	37.7%	
Net interest yield (FTE basis)		2.30%		2.02%		3.99%	•	4.21%	3.73	3.52	
Return on average allocated capital		60		38		18		14	31	22	
								45.46	47.86	51.96	

					Ni	ne Months End						
Average		2018		2017		2018	2017		2018		2017	%Change
Total loans and leases	\$	5,211	\$	5,025	\$	276,556	\$ 257,779	\$	281,767	\$	262,804	7%
Total earning assets (2)		681,922		647,887		277,295	258,659		716,475		682,436	5
Total assets (2)		709,997		675,159		288,224	270,196		755,479		721,245	5
Total deposits		677,684		642,783		5,595	6,421		683,279		649,204	5
Allocated capital		12,000		12,000		25,000	25,000		37,000		37,000	_
Period end	Sep	tember 30 2018		December 31 2017	s	eptember 30 2018	December 31 2017	Se	eptember 30 2018		December 31 2017	%Change
Total loans and leases	\$	5,276	\$	5,143	\$	282,001	\$ 275,330	\$	287,277	\$	280,473	2%
Total earning assets (2)		690,968		675,485		282,921	275,742		726,494		709,832	2
Total assets (2)		719,126		703,330		293,766	287,390		765,497		749,325	2
Total deposits		686,723		670,802		6,047	5,728		692,770		676,530	2

See page 11 for footnotes.

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, brokerage asset and loan balances between Deposits, Consumer Lending and GWIM, as well as other clientmanaged business. 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 2017 Annual Report on Form 10-K.

Consumer Banking Results

Three Months Ended September 30, 2018 Compared to Three Months Ended September 30, 2017

Net income for Consumer Banking increased \$1.0 billion to \$3.1 billion primarily driven by higher pretax income and lower income tax expense from the reduction in the federal income tax rate. The increase in pretax income was driven by higher net interest income and lower noninterest expense and provision for credit losses. Net interest income increased \$651 million to \$6.9 billion primarily due to the beneficial impact of an increase in investable assets as a result of higher interest rates and an increase in deposits, as well as pricing discipline and loan growth. Noninterest income decreased modestly to \$2.5 billion as lower mortgage banking income was largely offset by higher card income and service charges.

The provision for credit losses decreased \$97 million to \$870 million primarily due to a lower reserve build in the U.S. credit card portfolio. Noninterest expense decreased \$106 million to \$4.4 billion driven by operating efficiencies 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 was 33 percent, up from 22 percent, driven by higher net income. For additional information on capital allocations, see Business Segment Operations on page 11.

Nine Months Ended September 30, 2018 Compared to Nine Months Ended September 30, 2017

Net income for Consumer Banking increased \$2.7 billion to \$8.7 billion primarily driven by the same factors as described in the three-month discussion. The increase in pretax income was driven by higher revenue and lower noninterest expense, partially offset by higher provision for credit losses. Net interest income increased \$2.0 billion to \$20.0 billion primarily due to the same factors as described in the three-month discussion. Noninterest income remained relatively unchanged at \$7.7 billion as higher card income and service charges were largely offset by lower mortgage banking income.

The provision for credit losses increased \$1.10 million to \$2.7 billion driven by portfolio seasoning and loan growth in the U.S. credit card portfolio. Noninterest expense decreased \$55 million to \$13.2 billion driven by operating efficiencies and lower litigation

expense. These decreases were largely offset by investments in digital capabilities and business growth, including increased primary sales professionals, combined with investments in new financial centers and renovations.

The return on average allocated capital was 31 percent, up from 22 percent, driven by higher net income. For additional information on capital allocations, see Business Segment Operations on page 11.

Deposits

Three Months Ended September 30, 2018 Compared to Three Months Ended September 30, 2017

Net income for Deposits increased \$719 million to \$1.9 billion driven by higher revenue and lower income tax expense. Net interest income increased \$628 million to \$4.1 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 \$19 million to \$1.2 billion driven by higher service charges.

The provision for credit losses remained relatively unchanged at \$48 million. Noninterest expense remained relatively unchanged at \$2.6 billion as investments in new financial centers, renovations and digital capabilities combined with higher personnel expense were offset by lower litigation expense.

Average deposits increased \$29.4 billion to \$681.7 billion driven by strong organic growth. Growth in checking and money market savings of \$34.6 billion was partially offset by a decline in time deposits of \$4.8 billion.

Nine Months Ended September 30, 2018 Compared to Nine Months Ended September 30, 2017

Net income for Deposits increased \$2.0 billion to \$5.4 billion driven by higher revenue and lower income tax expense, partially offset by higher noninterest expense. Net interest income increased \$1.9 billion to \$11.7 billion, and noninterest income increased \$36 million to \$3.5 billion. These increases were primarily driven by the same factors as described in the three-month discussion.

The provision for credit losses decreased \$13 million to \$135 million. Noninterest expense increased \$199 million to \$7.9 billion primarily driven by investments in digital capabilities and business growth, including increased primary sales professionals. These increases, combined with investments in new financial centers and renovations, were partially offset by lower litigation expense.

Average deposits increased \$34.9 billion to \$677.7 billion primarily driven by the same factor as described in the three-month discussion.

Key Statistics - Deposits

	Three Months Ended	September 30	Nine Months En	tember 30	
	2018	2017	2018		2017
noninterest costs) (1)	2.19%	188%	2.10%		1.82%
		•	203,882	\$	167,274
in thousands) (2)			36,174		34,472
in thousands)			25,990		23,572
			4,385		4,515
			16,089		15,973

Client brokerage assets increased \$36.6 billion driven by strong client flows and market performance. Active mobile banking users increased 2.4 million reflecting continuing changes in our customers' banking preferences. The number of financial centers declined by a net 130 reflecting changes in customer preferences to selfservice options as we continue to optimize our consumer banking network and improve our cost-to-serve.

Consumer Lending

Three Months Ended September 30, 2018 Compared to Three Months Ended September 30, 2017

Net income for Consumer Lending increased \$308 million to \$1.2 billion driven by lower income tax expense, noninterest expense and provision for credit losses, partially offset by lower noninterest income. Net interest income increased \$23 million to \$2.8 billion primarily driven by higher interest rates and the impact of an increase in loan balances. Noninterest income decreased \$41 million to \$1.3 billion primarily driven by lower mortgage banking income, partially offset by higher card income.

The provision for credit losses decreased \$98 million to \$822 million primarily due to a lower reserve build in the U.S. credit card portfolio. Noninterest expense decreased \$107 million to \$1.7 billion primarily driven by operating efficiencies.

Average loans increased \$16.0 billion to \$279.7 billion driven by increases in residential mortgages and U.S credit card loans, partially offset by lower home equity and consumer vehicle loan balances.

Nine Months Ended September 30, 2018 Compared to Nine Months Ended September 30, 2017

Net income for Consumer Lending increased \$699 million to \$3.3 billion driven by lower income tax expense and noninterest expense, and higher net interest income, partially offset by higher provision for credit losses. Net interest income increased \$116 million to \$8.3 billion driven by the same factors as described in the three-month discussion. Noninterest income remained relatively unchanged at \$4.1 billion as higher card income was offset by lower mortgage banking income.

The provision for credit losses increased \$123 million to \$2.6 billion driven by portfolio seasoning and Ioan growth in the U.S. credit card portfolio. Noninterest expense decreased \$254 million to \$5.3 billion driven by the same factor as described in the three-month discussion.

Average loans increased \$18.8 billion to \$276.6 billion driven by increases in residential mortgages and U.S. credit card loans, partially offset by lower home equity balances.

⁽¹⁾ Includes deposits held in Consumer Lending,
(2) Digital users represents mobile and/or online users across consumer businesses.

At September 30, 2018, total owned loans in the core portfolio held in Consumer Lending were \$125.5 billion, an increase of \$13.9 billion from September 30, 2017, primarily driven by higher residential mortgage balances, based on a decision to retain loans on the balance sheet, partially offset by a decline in home equity balances. For more information on the core portfolio, see Consumer Portfolio Credit Risk Management on page 28.

Key Statistics - Consumer Lending

	Three Mont	ths End	ed Se	eptember 30	Nine Months Ended September 30			
(Dollars in millions)	2018			2017	2018		2017	
Total U.S. credit card (1)								
Gross interest yield	10	0.20%		9.76%	10.00%		9.62%	
Risk-adjusted margin	:	8.15		8.63	8.18		8.64	
New accounts (in thousands)	1,	,116		1,315	3,496		3,801	
Purchase volumes	\$ 66,	,490	\$	62,244	\$ 194,658	\$	179,230	
Debit card purchase volumes	\$ 79,	,920	\$	74,769	\$ 236,669	\$	220,729	

⁽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 and nine months ended September 30, 2018, the total U.S. credit card risk-adjusted margin decreased 48 bps and 46 bps compared to the same periods in 2017, primarily driven by increased net charge-offs and higher credit card rewards costs

During the three and nine months ended September 30, 2018, total U.S. credit card purchase volumes increased \$4.2 billion to \$66.5 billion, and \$15.4 billion to \$194.7 billion compared to the same periods in 2017, and debit card purchase volumes increased \$5.2 billion to \$79.9 billion, and \$15.9 billion to \$236.7 billion, reflecting higher levels of consumer spending.

Key Statistics - Loan Production (1)

Three Mont	ns Ended	September 30	Nine Months Ended September 30				
2018		2017		2018		2017	
\$ 10,	82 \$	13,183	\$	31,778	\$	37,876	
3,	199	4,133		11,229		12,871	
\$ 7,	208 \$	9,044	\$	21,053	\$	25,679	
3,	53	3,722		10,042		11,604	

⁽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 GWIM.

First mortgage loan originations in *Consumer Banking* and for the total Corporation decreased \$1.8 billion and \$2.5 billion in the three months ended September 30, 2018 compared to the same period in 2017 primarily driven by a higher interest rate environment driving lower first-lien mortgage refinances. First mortgage loan originations in *Consumer Banking* and for the total Corporation decreased \$4.6 billion and \$6.1 billion in the nine months ended September 30, 2018 primarily driven by the same factor as described in the three-month discussion.

Home equity production in Consumer Banking and for the total Corporation decreased \$669 million and \$734 million for the three months ended September 30, 2018 compared to the same period in 2017 driven by lower demand. Home equity production in Consumer Banking and for the total Corporation each decreased \$1.6 billion for the nine months ended September 30, 2018 primarily driven by the same factor as described in the three-month discussion.

	Th	ree Months En	ded Se	eptember 30		N	tember 30	<u> </u>		
(Dollars in millions)		2018		2017	%Change		2018		2017	%Change
Net interest income (FTE basis)	\$	1,536	\$	1,496	3%	\$	4,673	\$	4,653	-%
Noninterest income:										
Investment and brokerage services		3,004		2,854	5		8,981		8,474	6
All other income		243		270	(10)		694		780	(11)
Total noninterest income		3,247		3,124	4		9,675		9,254	5
Total revenue, net of interest expense (FTE basis)		4,783		4,620	4		14,348		13,907	3
Provision for credit losses		13		16	(19)		63		50	26
Noninterest expense		3,414		3,369	1		10,235		10,085	1
Income before income taxes (FTE basis)		1,356		1,235	10		4,050		3,772	7
Income tax expense (FTE basis)		346		465	(26)		1,033		1,422	(27)
Net income	\$	1,010	\$	770	31	\$	3,017	\$	2,350	28
Effective tax rate (FTE basis)		25.5%		37.7%			25.5%		37.7%	
Net interest yield (FTE basis)		2.38		2.29			2.42		2.32	
Return on average allocated capital		28		22			28		23	
Efficiency ratio (FTE basis)		71.40		72.91			71.34		72.52	

Balance Sheet

	 Three Months En	ded Se	eptember 30		N	line Months En	ded Se	ptember 30		
Average	 2018		2017	%Change		2018		2017	%Change	
Total loans and leases	\$ 161,869	\$	154,333	5%	\$	160,609	\$	151,205	6%	
Total earning assets	256,285		259,564	(1)		258,044		267,732	(4)	
Total assets	273,581		275,570	(1)		275,182		283,324	(3)	
Total deposits	238,291		239,647	(1)		239,176		247,389	(3)	
Allocated capital	14,500		14,000	4		14,500		14,000	4	
Burded and					Se	ptember 30		December 31	0/ 0/	
Period end						2018		2017	%Change	
Total loans and leases					\$	162,191	\$	159,378	2%	
Total earning assets						258,561		267,026	(3)	
Total assets						276,146		284,321	(3)	
Total deposits						239.654		246.994	(3)	

GWM consists of two primary businesses: Merrill Lynch Global Wealth Management (MLGWM) and U.S. Trust, Bank of America Private Wealth Management (U.S. Trust). For more information about GWM, see Business Segment Operations in the MD&A of the Corporation's 2017 Annual Report on Form 10-K.

Three Months Ended September 30, 2018 Compared to Three Months Ended September 30, 2017

Net income for GWM increased \$240 million to \$1.0 billion primarily due to higher revenue and lower income tax expense from the reduction in the federal income tax rate, partially offset by an increase in noninterest expense. The operating margin was 28 percent compared to 27 percent a year ago.

Net interest income increased \$40 million to \$1.5 billion primarily due to higher deposit spreads and average loan balances, partially offset by lower loan spreads.

Noninterest income, which primarily includes investment and brokerage services income, increased \$123 million to \$3.2 billion. The increase was driven by the impact of AUM flows and higher market valuations, partially offset by the impact of changing market dynamics on transactional revenue and AUM pricing. Noninterest expense of \$3.4 billion increased modestly, as higher revenue-related incentive expense and investment in sales professionals were largely offset by continued expense discipline.

Return on average allocated capital was 28 percent, up from 22 percent, primarily due to higher net income, somewhat offset by an increase in allocated capital.

MLGWM revenue of \$3.9 billion increased three percent reflecting higher asset management fees driven by higher net

flows and market valuations and an increase in net interest income, partially offset by lower AUM pricing and transactional revenue. U.S. Trust revenue of \$859 million increased five percent reflecting higher asset management fees driven by increased net flows and market valuations, and higher net interest income.

Nine Months Ended September 30, 2018 Compared to Nine Months Ended September 30, 2017

Net income for GWIM increased \$667 million to \$3.0 billion due to higher revenue and lower income tax expense, partially offset by an increase in noninterest expense. The decrease in tax expense was driven by the reduction in the federal tax rate. The operating margin was 28 percent compared to 27 percent a year ago.

Net interest income increased \$20 million to \$4.7 billion due to the same factors as described in the three-month discussion. Noninterest income, which primarily includes investment and brokerage services income, increased \$421 million to \$9.7 billion due to the same factors as described in the three-month discussion. Noninterest expense increased \$150 million to \$10.2 billion primarily due to higher revenue-related incentive expense and investment in sales professionals, partially offset by expense discipline.

The return on average allocated capital was 28 percent, up from 23 percent, as higher net income was partially offset by an increased capital allocation. For more information on capital allocated to the business segments, see Business Segment Operations on page 11.

Revenue from MLGWM of \$11.8 billion increased three percent due to higher asset management fees driven by higher AUM flows and market valuations, partially offset by lower AUM pricing, transactional revenue and net interest income. U.S. Trust revenue of \$2.6 billion increased five percent due to the same factors as described in the threemonth discussion.

Key Indicators and Metrics

	 hree Months En	ded Se	ptember 30	Nine Months En	ded Sep	September 30	
(Dollars in millions, except as noted)	 2018		2017	2018		2017	
Revenue by Business							
Merrill Lynch Global Wealth Management	\$ 3,924	\$	3,796	\$ 11,780	\$	11,452	
U.S. Trust	859		822	2,567		2,450	
Other	_		2	1		5	
Total revenue, net of interest expense (FTE basis)	\$ 4,783	\$	4,620	\$ 14,348	\$	13,907	
Client Balances by Business, at period end							
Merrill Lynch Global Wealth Management				\$ 2,385,479	\$	2,245,499	
U.S. Trust				455,894		430,684	
Total client balances				\$ 2,841,373	\$	2,676,183	
Client Balances by Type, at period end							
Assets under management				\$ 1,144,375	\$	1,036,048	
Brokerage and other assets				1,292,219		1,243,858	
Deposits				239,654		237,771	
Loans and leases (1)				165,125		158,506	
Total client balances				\$ 2,841,373	\$	2,676,183	
Assets Under Management Rollforward							
Assets under management, beginning of period	\$ 1,101,001	\$	990,709	\$ 1,080,747	\$	886,148	
Net client flows	7,572		20,749	42,587		77,479	
Market valuation/other	35,802		24,590	21,041		72,421	
Total assets under management, end of period	\$ 1,144,375	\$	1,036,048	\$ 1,144,375	\$	1,036,048	
Associates, at period end (2)							
Number of financial advisors				17,456		17,221	
Total wealth advisors, including financial advisors				19,344		19,108	
Total primary sales professionals, including financial advisors and wealth advisors				20,437		20,089	
Merrill Lynch Global Wealth Management Metric							
Financial advisor productivity (3) (in thousands)	\$ 1,035	\$	994	\$ 1,030	\$	1,009	
U.S. Trust Metric, at period end							
Primary sales professionals				1,711		1,696	

Client Balances

Client balances increased \$165.2 billion, or six percent, to \$2.8 trillion at September 30, 2018 compared to September 30, 2017. The increase in client balances was due to higher market valuations and positive net flows. 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.

⁽¹⁾ 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 2,618 and 2,267 at September 30, 2018 and 2017.
(3) Financial advisor productivity is defined as annualized MLGMM total revenue, excluding the allocation of certain asset and liability management (ALM) activities, divided by the total average number of financial advisors (excluding financial advisors in the Consumer Banking segment).

Global Banking

	Thr	ee Months En	ded Se	ptember 30		Nine Months End	tember 30	_	
(Dollars in millions)		2018		2017	%Change	2018		2017	%Change
Net interest income (FTE basis)	\$	2,706	\$	2,642	2%	\$ 8,057	\$	7,786	3%
Noninterest income:									
Service charges		754		776	(3)	2,285		2,351	(3)
Investment banking fees		643		806	(20)	2,130		2,661	(20)
All other income		635		763	(17)	2,122		2,182	(3)
Total noninterest income		2,032		2,345	(13)	6,537		7,194	(9)
Total revenue, net of interest expense (FTE basis)		4,738		4,987	(5)	 14,594		14,980	(3)
Provision for credit losses		(70)		48	n/m	(77)		80	n/m
Noninterest expense		2,120		2,119	_	6,471		6,435	1
Income before income taxes (FTE basis)		2,688		2,820	(5)	8,200		8,465	(3)
Income tax expense (FTE basis)		699		1,062	(34)	2,132		3,192	(33)
Net income	\$	1,989	\$	1,758	13	\$ 6,068	\$	5,273	15
Effective tax rate (FTE basis)		26.0%		37.7%		26.0%		37.7%	
Net interest yield (FTE basis)		2.96		2.94		2.97		2.91	
Return on average allocated capital		19		17		20		18	
Efficiency ratio (FTE basis)		44.79		42.52		44.34		42.97	

Balance Sheet

	П	hree Months En	ded Se	eptember 30			Nine Months En	ptember 30	_	
Average		2018		2017	%Change		2018		2017	% Change
Total loans and leases	\$	352,712	\$	346,093	2%	\$	353,167	\$	344,683	2%
Total earning assets		362,316		357,014	1		362,910		357,999	1
Total assets		422,255		414,755	2		422,041		414,867	2
Total deposits		337,685		315,692	7		328,484		307,163	7
Allocated capital		41,000		40,000	3		41,000		40,000	3
						Se	ptember 30		December 31	
Period end							2018		2017	%Change
Total loans and leases						\$	352,332	\$	350,668	-%
Total earning assets							369,555		365,560	1
Total assets							430,846		424,533	1
Total denosits							350.748		329 273	7

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 2017 Annual Report on Form

Three Months Ended September 30, 2018 Compared to Three Months Ended September 30, 2017

Net income for *Global Banking* increased \$231 million to \$2.0 billion primarily driven by lower income tax expense from the reduction in the federal income tax rate, partially offset by lower pretax income discussed below.

Pretax results were driven by lower revenue and lower provision for credit losses with noninterest expense remaining flat. Revenue decreased \$249 million to \$4.7 billion driven by lower noninterest

income, partially offset by higher net interest income. Net interest income increased \$64 million to \$2.7 billion primarily due to the impact of higher interest rates, as well as deposit growth. Noninterest income decreased \$313 million to \$2.0 billion primarily due to lower investment banking fees and the impact of tax reform on certain tax-advantaged investments, partially offset by higher leasing-related revenues. The provision for credit losses improved \$118 million to a benefit of \$70 million, driven by continued improvements in the energy sector and broader loan quality.

Noninterest expense was unchanged at \$2.1 billion as slightly lower personnel expense was offset by higher operating expense.

The return on average allocated capital was 19 percent, up from 17 percent, as higher net income was partially offset by an increased capital allocation. For more information on capital allocated to the business segments, see Business Segment Operations on page 11.

Nine Months Ended September 30, 2018 Compared to Nine Months Ended September 30, 2017

Net income for *Global Banking* increased \$795 million to \$6.1 billion primarily driven by lower income tax expense from the reduction in the federal income tax rate, partially offset by lower pretax income.

Pretax results were driven by lower revenue, slightly higher noninterest expense and lower provision for credit losses. Revenue decreased \$386 million to \$14.6 billion driven by lower noninterest income, partially offset by higher net interest income. Net interest income increased \$271 million to \$8.1 billion primarily due to the impact of higher interest rates on increased deposits. Noninterest income decreased \$657 million to \$6.5 billion primarily due to lower investment banking fees and the impact of tax reform on certain tax-advantaged investments, partially offset by higher leasing-related revenues. The provision for credit losses improved

\$157 million to a benefit of \$77 million, primarily driven by continued improvements in the energy sector and broader loan quality.

Noninterest expense increased \$36 million to \$6.5 billion primarily due to higher operating expense.

The return on average allocated capital was 20 percent, up from 18 percent, as higher net income was partially offset by an increased capital allocation. For more information on capital allocated to the business segments, see Business Segment Operations on page 11.

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 Corporate Banking Global Commercial Banking							ng Business Banking							
							Months En	ded S	eptember 3	0					
(Dollars in millions)	2018		2017		2018		2017		2018		2017		2018		2017
Revenue (FTE basis)															
Business Lending	\$ 960	\$	1,127	\$	1,025	\$	1,090	\$	99	\$	101	\$	2,084	\$	2,318
Global Transaction Services	914		840		814		758		244		217		1,972		1,815
Total revenue, net of interest expense	\$ 1,874	\$	1,967	\$	1,839	\$	1,848	\$	343	\$	318	\$	4,056	\$	4,133
Balance Sheet															
Average															
Total loans and leases	\$ 162,249	\$	159,417	\$	174,315	\$	168,945	\$	16,127	\$	17,659	\$	352,691	\$	346,021
Total deposits	165,522		149,564		134,486		129,440		37,703		36,687		337,711		315,691
	 Global Corp	orate	Banking	G	ilobal Comm	ercial	l Banking		Busines	s Ban	ıking		To	otal	
						Nine I	Months End	led S	eptember 30)					
	 2018		2017		2018		2017		2018		2017		2018		2017
Revenue (FTE basis)															
Business Lending	\$ 3,103	\$	3,322	\$	2,974	\$	3,186	\$	297	\$	301	\$	6,374	\$	6,809
Global Transaction Services	2,708		2,470		2,441		2,217		713		625		5,862		5,312
Total revenue, net of interest expense	\$ 5,8 <u>11</u>	\$	5,792	\$	5,415	\$	5,403	\$	1,010	\$	926	\$	12,236	\$	12,121
Balance Sheet															
Average															
Total loans and leases	\$ 162,652	\$	157,144	\$	173,788	\$	169,751	\$	16,720	\$	17,762	\$	353,160	\$	344,657
Total deposits	159,500		146,627		132,115		124,446		36,889		36,092		328,504		307,165
Period end															
Total loans and leases	\$ 162,004	\$	161,441	\$	174,452	\$	170,825	\$	15,880	\$	17,579	\$	352,336	\$	349,845
Total deposits	 174,709		147,893		138,425		135,249		37,640		36,402		350,774		319,544

Business Lending revenue decreased \$234 million and \$435 million for the three and nine months ended September 30, 2018 compared to the same periods in 2017. The decreases for both periods were primarily driven by the impact of tax reform on certain tax-advantaged investments and lower leasing-related revenues.

Global Transaction Services revenue increased \$157 million and \$550 million for the three and nine months ended September 30, 2018 driven by higher short-term rates and increased deposit balances.

Average loans and leases increased two percent for both the three and nine months ended September 30, 2018 compared to the same periods in 2017 driven by growth in the commercial and industrial, and commercial real estate portfolios. Average deposits increased seven percent for both the three and nine months ended September 30, 2018. The increase for both periods was due to growth in international and 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 revenue-sharing 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	Bank	king		Total Co	rpora	ation	Global Banking			ing	Total Corporation			
	Three Months Ended September 30					Nine Months Ended September 30						0				
(Dollars in millions)		2018		2017		2018		2017		2018		2017		2018		2017
Products																
Advisory	\$	237	\$	321	\$	262	\$	374	\$	782	\$	1,177	\$	861	\$	1,262
Debt issuance		295		397		684		962		1,018		1,170		2,385		2,789
Equity issuance		111		88		307		193		330		314		911		736
Gross investment banking fees		643		806		1,253		1,529		2,130		2,661		4,157		4,787
Self-led deals		(14)		(18)		(49)		(52)		(63)		(89)		(178)		(194)
Total investment banking fees	\$	629	\$	788	\$	1,204	\$	1,477	\$	2,067	\$	2,572	\$	3,979	\$	4,593

Total Corporation investment banking fees, excluding self-led deals, of \$1.2 billion and \$4.0 billion, which are primarily included within *Global Banking* and *Global Markets*, decreased 18 percent and 13 percent for the three and nine months ended September 30, 2018 compared to the same periods in 2017 primarily due to declines in leveraged finance and advisory fees, partially offset by an increase in equity underwriting fees.

Global Markets

	Thr	Three Months Ended September 30				N	ine Months End		
(Dollars in millions)		2018		2017	%Change		2018	2017	%Change
Net interest income (FTE basis)	\$	754	\$	899	(16)%	\$	2,425	\$ 2,812	(14)%
Noninterest income:									
Investment and brokerage services		388		496	(22)		1,306	1,548	(16)
Investment banking fees		523		624	(16)		1,783	1,879	(5)
Trading account profits		1,727		1,714	1		6,614	5,634	17
All other income		451		168	n/m		722	682	6
Total noninterest income		3,089		3,002	3		10,425	9,743	7
Total revenue, net of interest expense (FTE basis)		3,843		3,901	(1)		12,850	12,555	2
Provision for credit losses		(2)		(6)	(67)		(6)	2	n/m
Noninterest expense		2,612		2,711	(4)		8,145	8,117	_
Income before income taxes (FTE basis)		1,233		1,196	3		4,711	4,436	6
Income tax expense (FTE basis)		321		440	(27)		1,225	1,553	(21)
Net income	\$	912	\$	756	21	\$	3,486	\$ 2,883	21
Effective tax rate (FTE basis)		26.0%		36.8%			26.0%	35.0%	
Return on average allocated capital		10		9			13	11	
Efficiency ratio (FTE basis)		67.99		69.48			63.39	64.64	

Balance Sheet

Total earning assets

Silect										
	<u></u>	hree Months Er	nded Se	eptember 30			Nine Months En	ded S	September 30	
Average		2018		2017	%Change		2018		2017	%Change
Trading-related assets:										
Trading account securities	\$	215,397	\$	216,988	(1)%	\$	211,668	\$	214,190	(1)%
Reverse repurchases		124,842		101,556	23		127,019		99,998	27
Securities borrowed		74,648		81,950	(9)		80,073		83,770	(4)
Derivative assets		45,392		41,789	9		46,754		41,184	14
Total trading related assets		460,279		442,283	4		465,514		439,142	6
Total loans and leases		71,231		72,347	(2)		73,340		70,692	4
Total earning assets		459,073		446,754	3		478,455		444,478	8
Total assets		652,481		642,428	2		669,688		631,684	6
Total deposits		30,721		32,125	(4)		31,253		32,397	(4)
Allocated capital		35,000		35,000	_		35,000		35,000	_
Period end						s	September 30 2018		December 31 2017	%Change
Total tradingrelated assets						\$	456,643	\$	419,375	9%
Total loans and leases							73,023		76,778	(5)

449,314

447,304

 Total assets
 646,359
 629,013
 3

 Total deposits
 41,102
 34,029
 21

n/m = not meaningful

19 Bank of America

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 Global Markets, see Business Segment Operations in the MD&A of the Corporation's 2017 Annual Report on Form 10-K.

Three Months Ended September 30, 2018 Compared to Three Months Ended September 30, 2017

Net income for Global Markets increased \$156 million to \$912 million. Net DVA losses were \$99 million compared to losses of \$21 million. Excluding net DVA, net income increased \$218 million to \$987 million. These increases were primarily driven by lower noninterest expense and a decrease in income tax expense from the reduction in the federal income tax rate.

Sales and trading revenue, excluding net DVA, decreased \$79 million primarily due to lower fixed-income, currencies and commodities (FICC) revenue. Noninterest expense decreased \$99 million to \$2.6 billion driven by lower operating costs.

Average assets increased \$10.1 billion to \$652.5 billion primarily driven by increased levels of inventory to facilitate client demand.

The return on average allocated capital was 10 percent, up from nine percent, reflecting higher net income.

Nine Months Ended September 30, 2018 Compared to Nine Months Ended September 30, 2017

Net income for Global Markets increased \$603 million to \$3.5 billion. Net DVA losses were \$214 million compared to losses of

\$310 million. Excluding net DVA, net income increased \$574 million to \$3.6 billion. These increases were primarily driven by higher revenue and lower income tax expense from the reduction in the federal income tax rate.

Sales and trading revenue, excluding net DVA, increased \$172 million due to higher Equities revenue, partially offset by lower FICC revenue. Noninterest expense increased \$28 million to \$8.1 billion primarily due to continued investments in technology, partially offset by lower operating costs.

Average assets increased \$38.0 billion to \$669.7 billion primarily driven by increased levels of inventory in FICC to facilitate client demand and growth in Equities client financing activities. Total period-end assets increased \$17.3 billion from December 31, 2017 to \$646.4 billion at September 30, 2018 due to growth in Equities client financing activities.

The return on average allocated capital was 13 percent, up from 11 percent, reflecting higher 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 2017 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 6.

Sales and Trading Revenue (1, 2)

	Three Months Ended September 30					Nine Months Ended September 30			
(Dollars in millions)	 2018		2017		2018		2017		
Sales and trading revenue									
Fixed-income, currencies and commodities	\$ 1,982	\$	2,152	\$	6,702	\$	7,068		
Equities	990		977		3,804		3,170		
Total sales and trading revenue	\$ 2,972	\$	3,129	\$	10,506	\$	10,238		
Sales and trading revenue, excluding net DVA (3)									
Fixed-income, currencies and commodities	\$ 2,062	\$	2,166	\$	6,888	\$	7,350		
Equities	1,009		984		3,832		3,198		
Total sales and trading revenue, excluding net DVA	\$ 3,071	\$	3,150	\$	10,720	\$	10,548		

⁽¹⁾ Includes FTE adjustments of \$53 million and \$199 million for the three and nine months ended September 30, 2018 compared to \$61 million and \$162 million for the same periods in 2017. For more information on sales and trading revenue, see Note 3 -

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.

Three Months Ended September 30, 2018 Compared to Three Months Ended September 30, 2017

FICC revenue decreased \$104 million primarily due to lower client activity in rates products and a weaker environment for municipal bonds. Equities revenue increased \$25 million due to increased client activity in financing.

Nine Months Ended September 30, 2018 Compared to Nine Months Ended September 30, 2017

FICC revenue decreased \$462 million primarily due to lower activity and a less favorable market in credit-related products. The decline in FICC revenue was also impacted by higher funding costs, which were driven by increases in market interest rates. Equities revenue increased \$634 million driven by increased client activity in financing and derivatives.

Derivatives to the Consolidated Financial Statements.

20 Includes Global Barking sales and trading revenue of \$66 million and \$307 million for the three and nine months ended September 30, 2018 compared to \$61 million and \$175 million for the same periods in 2017.

30 FIGC and Equities sales and trading revenue of \$66 million and \$307 million for the three and nine months ended September 30, 2018 compared to losses and the three and nine months ended September 30, 2018 compared to losses of \$14 million and \$282 million for the three and nine months ended September 30, 2018 compared to losses of \$7 million and \$28 million for the three and nine months ended September 30, 2018 compared to losses of \$7 million and \$28 million for the same periods in 2017.

	Th	Three Months Ended September 30				Nine Months En		
(Dollars in millions)		2018		2017	%Change	2018	2017	%Change
Net interest income (FTE basis)	\$	162	\$	152	7%	\$ 435	\$ 675	(36)%
Noninterest income (loss)		(1)		(355)	(100)%	(907)	(94)	n/m
Total revenue, net of interest expense (FTE basis)		161		(203)	n/m	(472)	581	n/m
Provision for credit losses		(95)		(191)	(50)	(352)	(376)	(6)
Noninterest expense		566		734	(23)	2,166	3,546	(39)
Loss before income taxes (FTE basis)		(310)		(746)	(58)	(2,286)	(2,589)	(12)
Income tax expense (benefit) (FTE basis)		(453)		(800)	(43)	(1,893)	(1,944)	(3)
Net income (loss)	\$	143	\$	54	n/m	\$ (393)	\$ (645)	(39)

Balance Sheet

	<u>T</u>	Three Months Ended September 30				Nine Months Ended September 30				
Average		2018		2017	%Change		2018		2017	%Change
Total loans and leases	\$	59,930	\$	76,546	(22)%	\$	63,602	\$	86,294	(26)%
Total assets (1)		209,847		207,274	1		199,709		206,373	(3)
Total deposits		22,118		25,273	(12)		22,635		25,629	(12)
Period end						Se	ptember 30 2018		December 31 2017	%Change
Total loans and leases						\$	54,978	\$	69,452	(21)%
Total assets (1)							219,985		194,042	13
Total deposits							21,375		22,719	(6)

(1) In segments where the total of liabilities and equity exceeds assets, which are generally deposit-taking segments, we allocate assets from All Other to those segments to match liabilities (i.e., deposits) and allocated assets were \$516.3 billion and \$516.8 billion for the three and nine morths ended September 30, 2018 compared to \$510.1 billion and \$517.9 billion for the same periods in 2017, and period-end allocated assets were \$531.3 billion and \$520.4 billio

All Other consists of ALM activities, equity investments, non-core mortgage loans and servicing activities, the net impact of periodic revisions to the MSR valuation model for core and non-core MSRs and the related economic hedge results, liquidating businesses and residual expense allocations. For more information about All Other, see Business Segment Operations in the MD&A of the Corporation's 2017 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 28. 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 nine months ended September 30, 2018, residential mortgage loans held for ALM activities decreased \$3.2 billion to \$25.3 billion at September 30, 2018 primarily as a result of payoffs and paydowns. Non-core residential mortgage and home equity loans, which are principally run-off portfolios, are also held in All Other. During the nine months ended September 30, 2018, total non-core loans decreased \$11.4 billion to \$29.9 billion at September 30, 2018 due primarily to payoffs and paydowns, as well as loan sales of \$5.9 billion.

Three Months Ended September 30, 2018 Compared to Three Months Ended September 30, 2017

Net income for All Other increased \$89 million to \$143 million driven by a lower pretax loss, partially offset by a lower income tax benefit due to the reduction in the federal income tax rate. Pretax results were driven by higher revenue and lower noninterest expense, partially offset by a decrease in the benefit in provision for credit losses.

Revenue increased \$364 million to \$161 million primarily due to a lower provision for representations and warranties as well as a gain of \$84 million from the sale of a non-core consumer real estate loan portfolio.

The benefit in the provision for credit losses declined \$96 million to \$95 million due to a slower pace of portfolio improvement in the non-core consumer real estate portfolio.

Noninterest expense decreased \$168 million to \$566 million due to lower non-core mortgage costs and litigation expense.

The income tax benefit was \$453 million compared to \$800 million. The decrease in the benefit was due to the reduction in the federal income tax rate and the change in the pretax loss. Both periods included income tax benefit adjustments to eliminate the FTE treatment of certain tax credits recorded in *Global Banking*.

Nine Months Ended September 30, 2018 Compared to Nine Months Ended September 30, 2017

The net loss for All Other improved \$252 million to a loss of \$393 million, reflecting lower noninterest expense, partially offset by lower revenue.

Revenue decreased \$1.1 billion to a loss of \$472 million primarily due to a prioryear \$793 million pretax gain recognized in connection with the sale of the non-U.S. consumer credit card business and, in the current-year period, a \$729 million charge related to the redemption of certain trust preferred securities, partially offset by gains of \$656 million from the sale of primarily non-core mortgage loans.

Noninterest expense decreased \$1.4 billion to \$2.2 billion primarily due to lower non-core mortgage costs and reduced operational costs from the sale of the non-U.S. consumer credit card business. Also, the prior-year period included a \$295 million impairment charge related to certain data centers.

The income tax benefit was \$1.9 billion in both periods. The current-year period reflects the lower federal income tax rate, while the prior-year period included tax expense related to the sale of the non-U.S. consumer credit card business. Both periods included 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 10 - Commitments and Contingencies to the Consolidated Financial Statements herein as well as Off-Balance Sheet Arrangements and Contractual Obligations in the MD&A, Note 11 - Long-term Debt and Note 12 - Commitments and Contingencies to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on

Representations and Warranties

For information on representations and warranties, see Note 7 - Representations and Warranties Obligations and Corporate Guarantees to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-K and Representations and Warranties in Note 10 - Commitments and Contingencies to the Consolidated Financial Statements herein. 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 2017 Annual Report on Form 10-K.

Other Mortgage-related Matters

For more information on other mortgage-related matters, see Off-Balance Sheet Arrangements and Contractual Obligations - Other Mortgage-related Matters in the MD&Ā of the Corporation's 2017 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 risks. 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 reviewed at least annually and approved 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 2017 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 to ensure capital, risk and risk appetite are aligned. 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 11.

CCAR and Capital Planning

The Federal Reserve requires BHCs to submit a capital plan and requests for capital actions on an annual basis, consistent with the rules governing the Comprehensive Capital Analysis and Review (CCAR) capital plan.

On June 28, 2018, following the Federal Reserve's non-objection to our 2018 CCAR capital plan, the Board authorized the repurchase of approximately \$20.6 billion in common stock from July 1, 2018 through June 30, 2019, which includes approximately \$600 million in repurchases to offset shares awarded under equity-based compensation plans during the same period.

The repurchase program, which covers both common stock and warrants, will be 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.

Regulatory Capital

As a financial services holding company, we are subject to regulatory capital rules issued by U.S. banking regulators including Basel 3. The Corporation and its primary affiliated banking entity, BANA, are Basel 3 Advanced approaches institutions and are required to report regulatory risk-based capital ratios and risk-weighted 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 September 30, 2018, Common equity tier 1 (CET1) and Tier 1 capital ratios for the Corporation

were lower under the Standardized approach whereas 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 2017 Annual Report on Form 10-K.

Minimum Capital Requirements

Minimum capital requirements and related buffers are being phased in from January 1, 2014 through January 1, 2019. The PCA framework establishes 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.

We are subject to a capital conservation buffer, a countercyclical capital buffer and a global systemically important bank (G-SIB) surcharge that are being phased in over a three-year period ending January 1, 2019. Once fully phased-in, the Corporation's riskbased capital ratio requirements will include a capital conservation buffer greater than 2.5 percent, plus any applicable countercyclical capital buffer and a G-SIB surcharge in order to avoid restrictions on capital distributions and discretionary bonus payments. The buffers and surcharge must be comprised solely of CET1 capital. Under the phasein provisions, we are

required to maintain a capital conservation buffer greater than 1.875 percent plus a G-SIB surcharge of 1.875 percent in 2018. The countercyclical capital buffer is currently set at zero. We estimate that our fully phased in G-SIB surcharge will be 2.5 percent. The G-SIB surcharge may differ from this estimate over time.

Effective January 1, 2018, the Corporation is 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. For more information on the Corporation's capital ratios and regulatory requirements, see Table 9.

Capital Composition and Ratios

Table 9 presents Bank of America Corporation's capital ratios and related information in accordance with Basel 3 Standardized and Advanced approaches as measured at September 30, 2018 and December 31, 2017. As of the periods presented, the Corporation met the definition of well capitalized under current regulatory requirements.

Table 9 Bank of America Corporation Regulatory Capital under Basel 3 (1)

		Standardized Approach		Advanced Approaches		Current Regulatory Minimum (2)	2019 Regulatory Minimum (3)		
(Dollars in millions, except as noted) Risk-based capital metrics:	_	September 30, 2018							
Common equity tier 1 capital				_	404.000				
Tier 1 capital	•	-	64,386	\$	164,386				
			86,189		186,189				
Total capital (4)		2	18,159		209,950				
Risk-weighted assets (in billions)			1,439		1,424				
Common equity tier 1 capital ratio			11.4%		11.5%	8.25%	9.5%		
Tier 1 capital ratio			12.9		13.1	9.75	11.0		
Total capital ratio			15.2		14.7	11.75	13.0		
Leverage-based metrics:									
Adjusted quarterly average assets (in billions) (5)	•	\$	2,240	\$	2,240				
Tier 1 leverage ratio			8.3%		8.3%	4.0	4.0		
SLR leverage exposure (in billions)				\$	2,788				
SLR					6.7%	5.0	5.0		
					December	· 31, 2017			
Risk-based capital metrics:	-					<u> </u>			
Common equity tier 1 capital	\$	\$	168,461	\$	168,461				
Tier 1 capital			190,189		190,189				
Total capital (4)			224,209		215,311				
Risk-weighted assets (in billions)			1,443		1,459				
Common equity tier 1 capital ratio			11.7%		11.5%	7.25%	9.5%		
Tier 1 capital ratio			13.2		13.0	8.75	11.0		
Total capital ratio			15.5		14.8	10.75	13.0		
Leverage-based metrics:									
Adjusted quarterly average assets (in billions) (5)	\$	\$	2,223	\$	2,223				
Tier 1 leverage ratio			8.6%		8.6%	4.0	4.0		

^{1.} Basel 3 transition provisions for regulatory capital adjustments and deductions were fully phased in as of January 1, 2018. Prior periods are presented on a fully phased in basis.

1. The September 30, 2018 and December 31, 2017 amounts include a transition capital conservation buffer of 1.875 percent and 1.25 percent and a transition GSIB surcharge of 1.875 percent and 1.5 percent. The countercyclical capital buffer for both periods is zero.

1. The 2019 regulatory minimums include a capital conservation buffer of 2.5 percent and GSIB surcharge of 2.5 percent. The countercyclical capital buffer is zero. We will be subject to regulatory minimums on January 1, 2019. The SLR minimum includes a leverage buffer of 2.0 percent and was applicable beginning on January 1, 2018.

1. Total capital under the Advanced approaches differs from the Standardzed approach due to differences in the amount permitted in Tier 2 capital related to the qualifying allowance for credit losses.

1. Reflects adjusted average total assets for the three months ended September 30, 2018 and December 31, 2017.

CET1 capital was \$164.4 billion at September 30, 2018, a decrease of \$4.1 billion from December 31, 2017, driven by common stock repurchases, market value declines in available-for-sale (AFS) debt securities included in accumulated other comprehensive income (OCI) and dividends, partially offset by earnings. During the nine months ended September 30, 2018, Total capital under the Advanced approaches decreased \$5.4

billion driven by the same factors as CET1 capital and a decrease in subordinated debt included in Tier 2 capital. Standardized risk-weighted assets, which yielded the lower CET1 capital ratio for September 30, 2018, remained relatively unchanged from December 31, 2017.

Table 10 shows the capital composition at September 30, 2018 and December 31, 2017.

Table 10 Capital Composition under Basel 3 (1)

(Dallars in millions)	Se	ptember 30 2018	D	ecember 31 2017
Total common shareholders' equity	\$	239,832	\$	244,823
Goodwill, net of related deferred tax liabilities		(68,574)		(68,576)
Deferred tax assets arising from net operating loss and tax credit carryforwards		(6,166)		(6,555)
Intangibles, other than mortgage servicing rights and goodwill, net of related deferred tax liabilities		(1,407)		(1,743)
Other		701		512
Common equity tier 1 capital		164,386		168,461
Qualifying preferred stock, net of issuance cost		22,326		22,323
Other		(523)		(595)
Tier 1 capital		186,189		190,189
Tier 2 capital instruments		21,444		22,938
Eligible credit reserves included in Tier 2 capital		2,317		2,272
Other		_		(88)
Total capital under the Advanced approaches	\$	209,950	\$	215,311

⁽¹⁾ Basel 3 transition provisions for regulatory capital adjustments and deductions were fully phased in as of January 1, 2018. Prior periods are presented on a fully phased in basis

Table 11 shows the components of risk-weighted assets as measured under Basel 3 at September 30, 2018 and December 31, 2017.

Table 11 Risk-weighted Assets under Basel 3 (1)

	andardized Approach		Advanced pproaches	 Standardized Approach	Advanced Approaches
(Dallars in billions)	 Septemb	er 30, 2	2018	December 3	31, 2017
Credit risk	\$ 1,387	\$	840	\$ 1,384	\$ 867
Market risk	52		51	59	58
Operational risk	n/a		500	n/a	500
Risks related to credit valuation adjustments	n/a		33	n/a	34
Total risk-weighted assets	\$ 1,439	\$	1,424	\$ 1,443	\$ 1,459

⁽¹⁾ Basel 3 transition provisions for regulatory capital adjustments and deductions were fully phased in as of January 1, 2018. Prior periods are presented on a fully phased in basis.

Bank of America, N.A. Regulatory Capital

Table 12 presents regulatory capital information for BANA in accordance with Basel 3 Standardized and Advanced approaches as measured at September 30, 2018 and December 31, 2017. BANA met the definition of well capitalized under the PCA framework for both periods.

Table 12 Bank of America, N.A. Regulatory Capital under Basel 3

_	Standardized A	pproach	Advanced App	roaches			
<u> </u>	Ratio	Amount	Ratio	Amount	Minimum Required (1)		
(Dollars in millions)				September 30, 2018			
Common equity tier 1 capital	12.2% \$	146,659	14.8% \$	146,659	6.5%		
Tier 1 capital	12.2	146,659	14.8	146,659	8.0		
Total capital	13.2	158,657	15.3	150,754	10.0		
Tier 1 leverage	8.6	146,659	8.6	146,659	5.0		
SIR			7.0	146,659	6.0		
			December 31, 2017				
Common equity tier 1 capital	12.5% \$	150,552	14.9% \$	150,552	6.5%		
Tier 1 capital	12.5	150,552	14.9	150,552	8.0		
Total capital	13.6	163,243	15.4	154,675	10.0		
Tier 1 leverage	9.0	150,552	9.0	150,552	5.0		

⁽¹⁾ Percent required to meet guidelines to be considered well capitalized under the PCA framework.

Regulatory Developments

The following supplements the disclosure in Capital Management - Regulatory Developments in the MD&A of the Corporation's 2017 Annual Report on Form 10-K.

Minimum Total Loss-Absorbing Capacity

The Federal Reserve's final rule, which is effective January 1, 2019, includes minimum external total loss-absorbing capacity (TLAC) and long-term debt requirements to improve the resolvability and resiliency of large, interconnected BHCs. As of September 30, 2018, the Corporation's TLAC and long-term debt exceeded our estimated 2019 minimum requirements.

Stress Buffer Requirements

On April 10, 2018, the Federal Reserve announced a proposal to integrate the annual quantitative assessment of the CCAR program with the buffer requirements in the Basel 3 capital rule by introducing stress buffer requirements as a replacement of the CCAR quantitative objection. Under the Standardized approach, the proposal replaces the existing static 2.5 percent capital conservation buffer with a stress capital buffer, calculated as the decrease in the CET1 capital ratio in the supervisory severely adverse scenario of the modified CCAR stress test plus four quarters of planned common stock dividend payments, floored at 2.5 percent. The static 2.5 percent capital conservation buffer would be retained under the Advanced approaches. The proposal also introduces a stress leverage buffer requirement which would be calculated as the decrease in the Tier 1 leverage ratio in the supervisory severely adverse scenario of the modified CCAR stress test plus four quarters of planned common stock dividends, with no floor. The SLR would not incorporate a stress buffer requirement. The proposal also updates the capital distribution assumptions used in the CCAR stress test to better align with a firm's expected actions in stress, notably removing the assumption that a BHC will carry out all of its planned capital actions under stress.

Enhanced Supplementary Leverage Ratio and TLAC Requirements

On April 11, 2018, the Federal Reserve and OCC announced a proposal to modify the enhanced SLR standards applicable to U.S. G-SIBs and their insured depository institution subsidiaries. The proposal replaces the existing 2.0 percent leverage buffer with a leverage buffer tailored to each G-SIB, set at 50 percent of the applicable G-SIB surcharge. This proposal also replaces the current 6.0 percent threshold at which a G-SIB's insured depository institution subsidiaries are considered well capitalized under the PCA framework with a threshold set at 3.0 percent plus 50 percent of the G-SIB surcharge applicable to the subsidiary's G-SIB holding company. Correspondingly, the proposal updates the external TLAC leverage buffer for each G-SIB to 50 percent of the applicable G-SIB surcharge and revises the leverage component of the minimum external long-term debt requirement from 4.5 percent to 2.5 percent plus 50 percent of the applicable G-SIB surcharge.

Revisions to Basel 3 to Address Current Expected Credit Loss **Accounting**

On April 13, 2018, the U.S. banking regulators announced a proposal to address the regulatory capital impact of using the current expected credit loss methodology to measure credit reserves under a new accounting standard which is effective on January 1, 2020. For more information on this standard, see Note 1 - Summary of Significant Accounting Principles to the Consolidated Financial Statements. The proposal provides an

option to phase in the impact to regulatory capital over a three-year period on a straightline basis. It also updates the existing regulatory capital framework by creating a new defined term, allowance for credit losses, which would include credit losses on all financial instruments measured at amortized cost with the exception of purchased credit-impaired assets. The proposal continues to allow a limited amount of credit losses to be recognized in Tier 2 capital and maintains the existing limits under the Standardized and Advanced approaches.

Single-Counterparty Credit Limits

On June 14, 2018, the Federal Reserve published a final rule establishing singlecounterparty credit limits (SCCL) for BHCs with total consolidated assets of \$250 billion or more. The SCCL rule is designed to ensure that the maximum possible loss that a BHC could incur due to the default of a single counterparty or a group of connected counterparties would not endanger the BHC's survival, thereby reducing the probability of future financial crises. Beginning January 1, 2020, G-SIBs must calculate SCCL on a daily basis by dividing the aggregate net credit exposure to a given counterparty by the G-SIB's Tier 1 capital, ensuring that exposures to other G-SIBs and nonbank financial institutions regulated by the Federal Reserve do not breach 15 percent of Tier 1 capital and exposures to most other counterparties do not breach 25 percent of Tier 1 capital. Certain exposures, including exposures to the U.S. government, U.S. government-sponsored entities and qualifying central counterparties, are exempt from the credit limits.

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 Securities and Exchange Commission (SEC) Rule 15c3-1. Both entities are also registered as futures commission merchants and are subject to the 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 September 30, 2018, MLPF&S's regulatory net capital as defined by Rule 15c3-1 was \$14.1 billion and exceeded the minimum requirement of \$1.9 billion by \$12.2 billion. MLPCC's net capital of \$4.6 billion exceeded the minimum requirement of \$614 million by \$4.0 billion.

In accordance with the Alternative Net Capital Requirements, MLPF&S is required to maintain tentative net capital in excess of \$1.0 billion, net capital in excess of \$500 million and notify the SEC in the event its tentative net capital is less than \$5.0 billion. At September 30, 2018, MLPF&S had tentative net capital and net capital in excess of the minimum and notification requirements.

The current business of MLPF&S is expected to be reorganized into two affiliated broker-dealers: MLPF&S and a newly formed broker-dealer. Under the contemplated reorganization, which is expected to occur during 2019, the newly formed broker-dealer would become the legal entity for the institutional services that are now provided by MLPF&S. MLPF&S' retail services would remain within MLPF&S. The contemplated reorganization is subject to regulatory approval.

Merrill Lynch International (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 September 30, 2018, MLI's capital resources were \$34.7 billion, which exceeded the minimum Pillar 1 requirement of \$13.9 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 2017 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 13 shows average global liquidity sources (GLS) for the three months ended September 30, 2018 and December 31, 2017.

Table 13 Average Global Liquidity Sources

	Three Months Ended							
(Dollars in billions)	Sep	tember 30 2018		December 31 2017				
Parent company and NB Holdings	\$	80	\$	79				
Bank subsidiaries		410		394				
Other regulated entities		47		49				
Total Average Global Liquidity Sources	\$	537	\$	522				

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 BAVA.

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 \$325 billion and \$308 billion at September 30, 2018 and December 31, 2017. 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 14 presents the composition of average GLS for the three months ended September 30, 2018 and December 31, 2017.

Table 14 Average Global Liquidity Sources Composition

		Three Mor	iths	hs Ended			
(Dollars in billions)		September 30 2018		December 31 2017			
Cash on deposit	\$	130	\$	118			
U.S. Treasury securities		64		62			
U.S. agency securities and mortgage-backed securities		334		330			
Non-U.S. government securities		9		12			
Total Average Global Liquidity Sources	\$	537	\$	522			

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 \$440 billion and \$439 billion for the three months ended September 30, 2018 and December 31, 2017 . For the same periods, the average consolidated LCR was 120 percent and 125 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 and Time-to-required Funding in the MD&A of the Corporation's 2017 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 \$1.35 trillion and \$1.31 trillion at September 30, 2018 and December 31, 2017.

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.

During the nine months ended September 30, 2018, we issued \$60.9 billion of long-term debt consisting of \$30.2 billion for Bank of America Corporation, substantially all of which was TLAC compliant, \$18.6 billion for Bank of America, N.A and \$12.1 billion of other debt.

Table 15 presents the carrying value of aggregate annual contractual maturities of long-term debt at September 30, 2018. During the nine months ended September 30, 2018, we had total long-term debt contractual and non-contractual maturities of \$43.9 billion consisting of \$27.2 billion for Bank of America Corporation, \$6.5 billion for Bank of America, N.A. and \$10.2 billion of other debt.

Table 15 Long-term Debt by Maturity

(Dollars in millions)	Remainder of 2018	2019	2020	2021	2022	Thereafter	Total
Bank of America Corporation							
Senior notes	\$ 1,127	\$ 14,888	\$ 10,340	\$ 15,836	\$ 14,933	\$ 88,562	\$ 145,686
Senior structured notes	150	1,401	866	495	1,946	9,005	13,863
Subordinated notes	_	1,516	_	354	387	19,848	22,105
Junior subordinated notes	_	_	_	_	_	740	740
Total Bank of America Corporation	1,277	17,805	11,206	16,685	17,266	118,155	182,394
Bank of America, N.A.							
Senior notes	2,209	_	1,740	_	_	20	3,969
Subordinated notes	_	1	_	_	_	1,576	1,577
Advances from Federal Home Loan Banks	2,501	11,762	3,010	2	3	105	17,383
Securitizations and other Bank VIEs (1)	_	3,200	3,098	4,022	_	59	10,379
Other	1	178	78	_	10	61	328
Total Bank of America, N.A.	4,711	15,141	7,926	4,024	13	1,821	33,636
Other debt							
Structured liabilities	1,382	4,843	2,061	1,088	576	7,475	17,425
Nonbank VIEs (1)	6	41	_	_	_	598	645
Total other debt	1,388	4,884	2,061	1,088	576	8,073	18,070
Total long-term debt	\$ 7,376	\$ 37,830	\$ 21,193	\$ 21,797	\$ 17,855	\$ 128,049	\$ 234,100

⁽¹⁾ Represents the total long-term debt included in the liabilities of consolidated variable interest entities (MEs) on the Consolidated Balance Sheet.

Table 16 presents our long-term debt by major currency at September 30, 2018 and December 31, 2017.

Table 16 Long-term Debt by Major Currency

(Dollars in millions)	Sep	December 31 2017			
U.S. dollar	\$	184,299	\$	175,623	
Euro		34,802		35,481	
British pound		5,480		7,016	
Canadian dollar		3,044		1,966	
Japanese yen		2,927		2,993	
Australian dollar		2,341		3,046	
Other		1,207		1,277	
Total long-term debt	\$	234,100	\$	227,402	

Total long-term debt increased \$6.7 billion during the nine months ended September 30, 2018 primarily due to issuances outpacing maturities and redemptions, including the redemption of trust preferred securities, partially offset by changes in the fair value of hedged debt. We may, from time to time, purchase outstanding debt instruments in various transactions, depending on market conditions, liquidity and other factors. In addition, our other regulated entities may make markets in our debt instruments

to provide liquidity for investors. For information on funding and liquidity risk management, see Liquidity Risk – Liquidity Stress Analysis above, and for more information regarding long-term debt funding, see *Note 11 – Long-term Debt* to the Consolidated Financial Statements of the Corporation's 2017 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 49.

We may also issue unsecured debt in the form of structured notes for client purposes, certain of which qualify as TLAC eligible debt. During thenine months ended September 30, 2018, we issued \$5.1 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. Table 17 presents the Corporation's current long-term/short-term senior debt ratings and outlooks expressed by the rating agencies.

The ratings from Fitch Ratings have not changed from those disclosed in the Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2018.

The ratings from Standard & Poor's Global Ratings and Moody's Investors Service have not changed from those disclosed in the Corporation's 2017 Annual Report on Form 10-K

For more information on the additional collateral and termination payments that could be required in connection with certain over-the-counter (OTC) 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 2017 Annual Report on Form 10-K.

Table

17 **Senior Debt Ratings**

Моо	dy's Investors Ser	vice	Standar	d & Poor's Global	Ratings	Fitch Ratings				
Long-term	Short-term	Outlook	Long-term	Short-term	Outlook	Long-term	Short-term	Outlook		
АЗ	P-2	Stable	A-	A-2	Stable	A+	F1	Stable		
Aa3	P-1	Stable	A+	A-1	Stable	AA-	F1+	Stable		
NR	NR	NR	A+	A-1	Stable	AA-	F1+	Stable		
NR	NR	NR	A+	A-1	Stable	A+	F1	Stable		
	Long-term A3 Aa3 NR	Long-term Short-term A3 P2 Aa3 P1 NR NR	A3 P2 Stable Aa3 P1 Stable NR NR NR	Long-term Short-term Outlook Long-term A3 P-2 Stable A- Aa3 P-1 Stable A+ NR NR NR A+	Long-term Short-term Outlook Long-term Short-term A3 P-2 Stable A- A-2 Aa3 P-1 Stable A+ A-1 NR NR NR A+ A-1	Long-term Short-term Outlook Long-term Short-term Outlook A3 P-2 Stable A- A-2 Stable Aa3 P-1 Stable A+ A-1 Stable NR NR A+ A-1 Stable	Long-termShort-termOutlookLong-termShort-termOutlookLong-termA3P-2StableA-A-2StableA+Aa3P-1StableA+A-1StableAA-NRNRNRA+A-1StableAA-	Long-term Short-term Outlook Long-term Short-term Outlook Long-term Short-term A3 P-2 Stable A- A-2 Stable A+ F1 Aa3 P-1 Stable A+ A-1 Stable AA- F1+ NR NR NR A+ A-1 Stable AA- F1+		

Credit Risk Management

For information on our credit risk management activities, see Consumer Portfolio Credit Risk Management below, Commercial Portfolio Credit Risk Management on page 37, Non-U.S. Portfolio on page 43, Provision for Credit Losses on page 44, Allowance for Credit Losses on page 44, and Note 5 - Outstanding Loans and Leases and Note 6 Allowance for Credit Losses 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 the three and nine months ended September 30, 2018 resulting in improved credit quality and lower credit losses in the home equity portfolio, partially offset by seasoning and loan growth in the U.S. credit card portfolio compared to the same periods in 2017.

Improved credit quality, continued loan balance run-off and sales primarily in the non-core consumer real estate portfolio,

partially offset by seasoning within the U.S. credit card portfolio, drove a\$403 million decrease in the consumer allowance for loan and lease losses during the nine months ended September 30, 2018 to \$5.0 billion at September 30, 2018. For additional information, see Allowance for Credit Losses on page 44.

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 to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-K.

Table 18 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 estatesecured past due consumer loans that are insured by the Federal Housing Administration (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). Additionally, nonperforming loans and accruing balances past due 90 days or more do not include the PCI loan portfolio or loans accounted for under the fair value option even though the customer may be contractually past due.

For more information on PCI loans, see Consumer Portfolio Credit Risk Management - Purchased Credit-impaired Loan Portfolio on page 34 and Note 5 -Outstanding Loans and Leases to the Consolidated Financial Statements.

Table

18 **Consumer Credit Quality**

		Outst	anding	s		Nonpe	formin	g	Accruing Past Due 90 Days or More						
(Dollars in millions)	Se	September 30 2018		December 31 2017	S	eptember 30 2018	С	December 31 2017	Se	ptember 30 2018	[December 31 2017			
Residential mortgage (1)	\$	208,186	\$	203,811	\$	2,034	\$	2,476	\$	2,161	\$	3,230			
Home equity		51,235		57,744		2,226		2,644		-		_			
U.S. credit card		94,829		96,285		n/a		n/a		872		900			
Direct/Indirect consumer (2)		91,338		96,342		46		46		35		40			
Other consumer (3)		203		166		-		_		_					
Consumer loans excluding loans accounted for under the fair value option	\$	445,791	\$	454,348	\$	4,306	\$	5,166	\$	3,068	\$	4,170			
Loans accounted for under the fair value option (4)		755		928											
Total consumer loans and leases	\$	446,546	\$	455,276											
Percentage of outstanding consumer loans and leases (5)		n/a		n/a		0.97%		1.14%		0.69%		0.92%			
Percentage of outstanding consumer loans and leases, excluding PCI and fully-insured loan portfolios (5)		n/a		n/a		1.03		1.23		0.22		0.22			

Residential mortgage loans accruing past due 90 days or more are fully insured loans. At September 30, 2018 and December 31, 2017, residential mortgage includes \$1.6 billion and \$2.2 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 \$579 million and \$1.0 billion or loans on which interest was still accruing.

(2) Outstandings include auto and specialty lending loans and leases of \$50.1 billion and \$1.0 billion or secured or some reliance of \$50.2 billion and \$5.2 billion and \$5.0 billion and \$5.2 billion and \$5.0 b

Table 19 presents net charge-offs and related ratios for consumer loans and leases.

Table 19 Consumer Net Charge-offs and Related Ratios

			Net Char	ge-o	ffs (1)		Net Charge-off Ratios (1, 2)						
	Three Months Ended September 30				Nine Mo Septe		Three Month Septemb		Nine Months Ended September 30				
(Dollars in millions)	2018		2017		2018	2017	2018	2017	2018	2017			
Residential mortgage	\$ 12	\$	(82)	\$	13	\$ (84)	0.02 %	(0.16)%	0.01%	(0.06)%			
Home equity	(20)		83		13	197	(0.15)	0.54	0.03	0.42			
U.S. credit card	698		612		2,138	1,858	2.92	2.65	3.03	2.75			
Non-U.S. credit card (3)	_		_		-	75	-	_	_	1.91			
Direct/Indirect consumer	42		68		142	149	0.18	0.28	0.20	0.21			
Other consumer	44		50		130	114	n/m	n/m	n/m	n/m			
Total	\$ 776	\$	731	\$	2,436	\$ 2,309	0.69	0.65	0.73	0.69			

(1) Net charge-offs exclude write-offs in the PCI loan portfolio. For more information, see Consumer Portfolio Credit Risk Management. – Purchased Credit-impaired Loan Portfolio on page 34. (2) 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 option. (3) Represents net charge-offs related to the non-U.S. credit card loan portfolio, which was sold during the second quarter of 2017. n/m = not meaningful

Net charge-offs, as shown in Tables 19 and 20, exclude write-offs in the PCI loan portfolio of \$61 million and \$92 million in residential mortgage and \$34 million and \$74 million in home equity for the three and nine months ended September 30, 2018 compared to \$62 million and \$112 million in residential mortgage and \$11 million and \$49 million in home equity for the same periods in 2017. Net charge-off (recovery) ratios including the PCI write-offs were 0.14 percent and 0.07 percent for residential mortgage and 0.11 percent and 0.22 percent for home equity for the three and nine months ended September 30, 2018 compared to (0.04) percent and 0.02 percent for residential mortgage and 0.61 percent and 0.52 percent for home equity for the same periods in 2017. For additional information on PCI write-offs, see Consumer Portfolio Credit Risk Management - Purchased Credit-impaired Loan Portfolio on page 34.

Table 20 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, Ioan-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 run-off portfolios. Core loans as reported in Table 20 include loans held in the Consumer Banking and GWIM segments, as well as loans held for ALM activities in All Other. For more information, see Note 5 - Outstanding Loans and Leases to the Consolidated Financial Statements.

As shown in Table 20, outstanding core consumer real estate loans increased \$9.0 billion during the nine months ended September 30, 2018 driven by an increase of \$12.7 billion in residential mortgage, partially offset by a\$3.6 billion decrease in home equity.

During the three and nine months ended September 30, 2018, certain consumer real estate loans, primarily non-core, with carrying values of \$3.7 billion and \$4.9 billion were sold, resulting in gains of \$84 million and \$656 million recorded in other income in the Consolidated Statement of Income.

Table 20 Consumer Real Estate Portfolio (1)

	Outstandings					Nonper	ng	Net Charge-offs (2)									
			-			·antambar 20	30 December 31 2017				nths Ended mber 30			Nine Months Ended September 30			
(Dollars in millions)	3e	ptember 30 2018	December 31 2017		September 30 2018					2018		2017		2018		2017	
Core portfolio																	
Residential mortgage	\$	189,290	\$	176,618	\$	1,011	\$	1,087	\$	_	\$	(42)	\$	13	\$	(40)	
Home equity		40,596		44,245		1,056		1,079		15		26		52		85	
Total core portfolio		229,886		220,863		2,067		2,166		15		(16)		65		45	
Non-core portfolio																	
Residential mortgage		18,896		27,193		1,023		1,389		12		(40)		_		(44)	
Home equity		10,639		13,499		1,170		1,565		(35)		57		(39)		112	
Total non-core portfoli	0	29,535		40,692		2,193		2,954		(23)		17		(39)		68	
Consumer real estate portfolio																	
Residential mortgage		208,186		203,811		2,034		2,476		12		(82)		13		(84)	
Home equity		51,235		57,744		2,226		2,644		(20)		83		13		197	
Total consumer real estate portfolio	\$	259,421	\$	261,555	\$	4,260	\$	5,120	\$	(8)	\$	1	\$	26	\$	113	

	Allowance for Loan and Lease Losses						Provision for Loan and Lease Losses									
	 antombor 20		ecember 31		Three Mo Septe				Nine Mon Septer							
	 September 30 2018		2017		2018		2017		2018		2017					
Core portfolio																
Residential mortgage	\$ 211	\$	218	\$	(2)	\$	(49)	\$	7	\$	(60)					
Home equity	264		367		(27)		(10)		(51)		(19)					
Total core portfolio	475		585		(29)		(59)		(44)		(79)					
Non-core portfolio																
Residential mortgage	289		483		22		(59)		(103)		(111)					
Home equity	394		652		(112)		(86)		(221)		(255)					
Total non-core portfolio	683		1,135		(90)		(145)		(324)		(366)					
Consumer real estate portfolio																
Residential mortgage	500		701		20		(108)		(96)		(171)					
Home equity	658		1,019		(139)		(96)		(272)		(274)					
Total consumer real estate portfolio	\$ 1,158	\$	1,720	\$	(119)	\$	(204)	\$	(368)	\$	(445)					

⁽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 \$407 million and \$567 million and \$567 million and \$567 million and \$361 million and \$361 million and \$600 million and

We believe that the presentation of information adjusted to exclude the impact of the PCI loan portfolio, 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 PCI loan portfolio and the fully-insured loan portfolio in certain credit quality statistics. We separately disclose information on the PCI loan portfolio on page 34.

Residential Mortgage

The residential mortgage portfolio made up the largest percentage of our consumer Ioan portfolio at 47 percent of consumer Ioans and Ieases at September 30, 2018. At September 30, 2018, 43 percent of the residential mortgage portfolio was in Consumer Banking and 36 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 portfolioincreased \$4.4 billion during the nine months ended September 30, 2018 as retention of new originations was partially offset by loan sales of \$5.7 billion and run-off.

At September 30, 2018 and December 31, 2017, the residential mortgage portfolio included \$20.8 billion and \$23.7 billion of outstanding fully-insured loans, of which \$14.7 billion and \$17.4 billion had FHA insurance with the remainder protected by longterm standby agreements. At September 30, 2018 and December 31, 2017, \$3.9 billion and \$5.2 billion of the FHA-insured loan population were repurchases of delinquent FHA loans pursuant to our servicing agreements with GNMA

Table 21 presents certain residential mortgage key credit statistics on both a reported basis and excluding the PCI loan portfolio and the fully-insured loan portfolio. Additionally, in the "Reported Basis" columns in the following table, accruing balances past due and nonperforming loans do not include the

PCI loan portfolio, in accordance with our accounting policies, even though the customer may be contractually past due. As such, the following discussion presents the residential mortgage portfolio excluding the PCI loan portfolio and the fully-insured loan portfolio. For more information on the PCI loan portfolio, see page 34.

Table

Residential Mortgage - Key Credit Statistics

		Reporte	d Basis	s (1)		Excluding Credit-in Fully-insu	paire	ed and
(Dallars in millions)	Se	ptember 30 2018	[December 31 2017	Se	eptember 30 2018		December 31 2017
Outstandings	\$	208,186	\$	203,811	\$	181,996	\$	172,069
Accruing past due 30 days or more		4,533		5,987		1,350		1,521
Accruing past due 90 days or more		2,161		3,230		_		_
Nonperforming loans		2,034		2,476		2,034		2,476
Percent of portfolio								
Refreshed LTV greater than 90 but less than or equal to 100		2%		3%		2%		2%
Refreshed LTV greater than 100		1		2		1		1
Refreshed FI00 below 620		4		6		2		3
2006 and 2007 vintages (2)		7		10		6		8

		Reported	Basis		Excluding Po	ırchased Credit-impai	red and Fully-insured	Loans
	Three Months Septembe		Nine Months Septembe		Three Months Septembe		Nine Months Septembe	
	2018	2017	2018	2017	2018	2017	2018	2017
Net charge-off ratio (3)	0.02%	(0.16)%	0.01%	(0.06)%	0.03%	(0.20)%	0.01%	(0.07)%

Nonperforming residential mortgage loans decreased \$442 million during the nine months ended September 30, 2018 driven by sales of \$377 million. Of the nonperforming residential mortgage loans at September 30, 2018, \$757 million, or 37 percent, were current on contractual payments. Loans accruing past due 30 days or more decreased \$171 million due to continued improvement in credit quality as well as

loan sales in the non-core portfolio.

Net charge-offs increased \$94 million to \$12 million and \$97 million to \$13 million for the three and nine months ended September 30, 2018 compared to the same periods in 2017 primarily due to net recoveries related to loan sales in the three and nine months ended September 30, 2017.

Loans with a refreshed LTV greater than 100 percent represented one percent of the residential mortgage loan portfolio at bothSeptember 30, 2018 and December 31, 2017. Of the loans with a refreshed LTV greater than 100 percent, 99 percent were performing at September 30, 2018 compared to 98 percent at December 31, 2017. 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. The majority of these loans have a refreshed LTV greater than 100 percent due to home price deterioration since 2006, partially offset by subsequent appreciation.

Of the \$182.0 billion in total residential mortgage loans outstanding at September 30, 2018, as shown in Table 21, 30

percent were originated as interest-only loans. The outstanding balance of interest-only residential mortgage loans that have entered the amortization period was \$9.6 billion, or 17 percent, at September 30, 2018. 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 September 30, 2018, \$235 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 \$1.4 billion, or one percent, for the entire residential mortgage portfolio. In addition, at September 30, 2018, \$425 million, or four percent, of outstanding interest-only residential mortgage loans that had entered the amortization period were nonperforming, of which \$162 million were contractually current, compared to \$2.0 billion, or one percent, for the entire residential mortgage portfolio, of which \$757 million were contractually current. 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. More than 90 percent of these loans that have yet to enter the amortization period will not be required to make a fully-amortizing payment until 2020 or later.

⁽¹⁾ Outstandings, accruing past due, nonperforming loans and percentages of portfolio exclude loans accounted for under the fair value option.
(2) These virtages of loans accounted for \$616 million, or 30 percent, and \$825 million or 33 percent, of nonperforming residential mortgage loans at September 30, 2018 and December 31, 2017.
(3) Nat charge-off ratios are calculated as annualized net charge-offs divided by average outstanding loans excluding loans accounted for under the fair value option.

Table 22 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 both September 30, 2018 and December 31, 2017. In the New York area, the New York-Northern New Jersey-Long Island MSA made up 13 percent of outstandings at both September 30, 2018 and December 31, 2017.

Table 22 Residential Mortgage State Concentrations

		Outstan	dings	(1)		Nonperf	ormin	g (1)		Net Cha	rge-o	ffs (2)	
		-4 b00		Danasakas 24	_	·		D	Three Mo Septe			Nine Mor Septe	
(Dollars in millions)	Se	ptember 30 2018		December 31 2017	5	eptember 30 2018		December 31 2017	2018	2017		2018	2017
California	\$	73,127	\$	68,455	\$	353	\$	433	\$ (1)	\$ (59)	\$	(18)	\$ (84)
New York (3)		18,669		17,239		217		227	4	(1)		10	(2)
Florida (3)		11,235		10,880		249		280	(2)	(9)		(7)	(11)
Texas		7,658		7,237		115		126	_	1		3	2
New Jersey (3)		6,761		6,099		100		130	_	(1)		5	1
Other		64,546		62,159		1,000		1,280	11	(13)		20	10
Residential mortgage loans (4)	\$	181,996	\$	172,069	\$	2,034	\$	2,476	\$ 12	\$ (82)	\$	13	\$ (84)
Fully-insured loan portfolio		20,849		23,741									
Purchased credit-impaired residential mortgage loan portfolio (5)		5,341		8,001									
Total residential mortgage loan portfolio	\$	208,186	\$	203,811									

At September 30, 2018, the home equity portfolio made up 11 percent of the consumer portfolio and is comprised of home equity lines of credit (HELOCs), home equity loans and reverse mortgages.

At September 30, 2018, our HELOC portfolio had an outstanding balance of \$45.9 billion, or 90 percent of the total home equity portfolio, compared to \$51.2 billion, or 89 percent, at December 31, 2017. HELOCs generally have an initial draw period of 10 years, and after the initial draw period ends, the loans generally convert to 15-year amortizing loans.

At September 30, 2018, our home equity loan portfolio had an outstanding balance of \$3.1 billion, or six percent of the total home equity portfolio, compared to \$4.4 billion, or seven percent, at December 31, 2017. Home equity loans are almost all fixed-rate loans with amortizing payment terms of 10 to 30 years, and of the \$3.1 billion at September 30, 2018, 60 percent have 25- to 30-year terms. At September 30, 2018, our reverse mortgage portfolio had an outstanding balance of \$2.2 billion, or four percent of the total home equity portfolio, compared to \$2.1 billion, or four percent, at December 31, 2017. We no longer originate reverse mortgages.

At September 30, 2018, 72 percent of the home equity portfolio was in Consumer Banking, 21 percent was in All Other and the remainder of the portfolio was primarily in GWIM. Outstanding balances in the home equity portfolio decreased \$6.5 billion during the nine months ended September 30, 2018 primarily due to paydowns and loan sales of \$859 million outpacing new originations and draws on existing lines. Of the total home equity portfolio at September 30, 2018 and December 31, 2017, \$17.6 billion and \$18.7 billion, or 34 percent and 32 percent, were in first-lien positions (36 percent and 34 percent excluding the PCI home equity portfolio). At September 30, 2018, outstanding balances in the home equity portfolio that were in a second-lien or more junior-lien position and where we also held the first-lien loan totaled \$8.2 billion, or 17 percent of our total home equity portfolio excluding the PCI loan portfolio.

Unused HELOCs totaled \$43.2 billion at September 30, 2018 compared to \$44.2 billion at December 31, 2017. The decrease was primarily due to accounts reaching the end of their draw period, which automatically eliminates open line exposure, and customers choosing to close accounts. Both of these more than offset the impact of new production. The HELOC utilization rate was 52 percent and 54 percent at September 30, 2018 and December 31, 2017.

¹⁰ Obstandings and nonperforming loans exclude loans accounted for under the fair value option.

12 Nat charge offs exclude \$61 million and \$92 million of write offs in the residential mortgage PCI loan portfolio for the three and nine months ended September 30, 2018 compared to \$62 million and \$112 million for the same periods in 2017. For more information on PCI write-offs, see Consumer Portfolio Creat Risk Management – Purchased Creat Himmained Loan Portfolion on page 34.

13 In three states, foreolosure requires a count order following a legal proceeding (judical states).

14 Amounts exclude the PCI residential mortgage and fully-instructed loan portfolios.

15 At September 30, 2018 and December 31, 2017, 49 percent and 47 percent of PCI residential mortgage loans were in California. There were no other significant single state concentrations.

Table 23 presents certain home equity portfolio key credit statistics on both a reported basis and excluding the PCI loan portfolio. Additionally, in the "Reported Basis" columns in the following table, accruing balances past due 30 days or more and nonperforming loans do not include the PCI loan portfolio, in accordance with our accounting policies, even though the customer may be contractually past due. As such, the following discussion presents the home equity portfolio excluding the PCI loan portfolio. For more information on the PCI loan portfolio, see page 34.

Table 23

Home Equity - Key Credit Statistics

		Reported	l Basis ((1)		Excluding Credit-impa		
(Dollars in millions)	Se	ptember 30 2018	De	ecember 31 2017	Se	ptember 30 2018	D	ecember 31 2017
Outstandings	\$	51,235	\$	57,744	\$	49,424	\$	55,028
Accruing past due 30 days or more (2)		404		502		404		502
Nonperforming loans (2)		2,226		2,644		2,226		2,644
Percent of portfolio								
Refreshed CLTV greater than 90 but less than or equal to 100		3 %		3%		2%		3%
Refreshed CLTV greater than 100		4		5		3		4
Refreshed FIOO below 620		6		6		6		6
2006 and 2007 vintages (3)		25		29		23		27

		Reported	Basis		Excl	uding Purchased Cre	dit-impaired Loans	
	Three Months Septembe		Nine Months Septembe		Three Months Septembe		Nine Months Septembe	
	2018	2017	2018	2017	2018	2017	2018	2017
Net charge-off ratio (4)	(0.15)%	0.54%	0.03%	0.42%	(0.15)%	0.56%	0.03%	0.44%

10. Obstantings according past due, properforming loans and percentages of the portfolio exclude loans accounted for under the fair value option.

(2) According past due 30 days or more include \$54 million and \$57 million and nonperforming loans include \$270 million and \$344 million of loans where we serviced the underlying first lien at September 30, 2018 and December 31, 2017.

(3) These viritages of loans have higher refreshed combined loans broadle (CIIV) ratios and accounted for 51 percent a ratio52 percent of a ropperforming frome equity loans at September 30, 2018 and December 31, 2017, and \$12 million of net recoveries and \$25 million of net charge-offs for the treve and nine months ended September 30, 2018, and \$67 million and \$170 million of net drags-offs for the same periods in 2017.

(4) Net charge-off ratios are calculated as annualized net charge-offs divided by average outstanding loans accounted for under the fair value option.

Nonperforming outstanding balances in the home equity portfoliodecreased \$418 million during the nine months ended September 30, 2018 as outflows, including \$154 million of sales, outpaced new inflows. Of the nonperforming home equity portfolio at September 30, 2018, \$1.3 billion, or 56 percent, were current on contractual payments. Nonperforming loans that are contractually current primarily consist of collateral-dependent 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. In addition, \$583 million, or 26 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 \$98 million during the nine months ended September 30, 2018.

In some cases, the junior-lien home equity outstanding balance that we hold is performing, but the underlying first lien is not. For outstanding balances in the home equity portfolio on which we service the first-lien loan, we are able to track whether the first-lien loan is in default. For loans where the first lien is serviced by a third party, we utilize credit bureau data to estimate the delinquency status of the first lien. For certain loans, we utilize a third-party vendor to combine credit bureau and public record data to better link a junior-lien loan with the underlying first-lien loan. At September 30, 2018, we estimate that \$690 million of current and \$109 million of 30 to 89 days past due junior-lien loans were behind a delinquent first-lien loan. We service the first-lien loans on \$149 million of these combined amounts, with the remaining \$650 million serviced by third parties. Of the \$799 million of current to 89 days past due junior-lien loans, based on available credit bureau data and our own internal servicing data, we estimate

that approximately \$225 million had first-lien loans that were 90 days or more past due. Net charge-offs decreased \$103 million to a \$20 million net recovery and \$184 million to a \$13 million net charge-off for the three and nine months ended September 30, 2018 compared to the same periods in 2017 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 and four percent of the home equity portfolio at September 30, 2018 and December 31, 2017. 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, 96 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 September 30, 2018.

Of the \$49.4 billion in total home equity portfolio outstandings at September 30, 2018, as shown in Table 24, 21 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 \$17.1 billion at September 30, 2018. 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 September 30, 2018, \$302 million, or two percent, of outstanding HELOCs that had entered the amortization period were accruing past due 30 days or more. In addition, at September 30,

2018, \$1.9 billion, or 11 percent, of outstanding HELOCs that had entered the amortization period were nonperforming, of which \$1.1 billion were contractually current. 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 September 30, 2018, 27 percent of these customers with an outstanding balance did not pay any principal on their HELOCs.

Table 24 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 September 30, 2018 and December 31, 2017. For the three and nine months ended September 30, 2018, loans within this MSA contributed \$9 million and \$25 million of net charge-offs within the home equity portfolio compared to \$24 million and \$52 million for the same periods in 2017. The Los Angeles-Long Beach-Santa Ana MSA within California made up 11 percent of the outstanding home equity portfolio at both September 30, 2018 and December 31, 2017. For the three and nine months ended September 30, 2018, loans within this MSA contributed net recoveries of \$7 million and \$18 million within the home equity portfolio compared to net recoveries of \$7 million and \$16 million for the same periods in 2017.

Table 24 Home Equity State Concentrations

		Outstar	ndings	; (1)		Nonperfo	rmir	ıg (1)		Net Char	ge-o	ffs (2)	
	Co.	stambar 20		December 31	_	antombor 20		December 31	 Three Mo Septe			Nine Mor Septer	
(Dollars in millions)	Sep	tember 30 2018		2017	3	eptember 30 2018		2017	2018	2017	-	2018	2017
California	\$	13,685	\$	15,145	\$	650	\$	766	\$ (20)	\$ (9)	\$	(41)	\$ (24)
Florida (3)		5,592		6,308		366		411	(4)	13		9	34
New Jersey (3)		4,005		4,546		168		191	6	16		20	37
New York (3)		3,732		4,195		222		252	8	14		16	31
Massachusetts		2,471		2,751		76		92	(1)	5		2	7
Other		19,939		22,083		744		932	(9)	44		7	112
Home equity loans (4)	\$	49,424	\$	55,028	\$	2,226	\$	2,644	\$ (20)	\$ 83	\$	13	\$ 197
Purchased credit-impaired home equity portfolio (5)		1,811		2,716									
Total home equity loan portfolio	\$	51,235	\$	57,744									

Purchased Credit-impaired Loan Portfolio

Loans acquired with evidence of credit quality deterioration since origination and for which it is probable at purchase that we will be unable to collect all contractually required payments are accounted for under the accounting standards for PCI loans. For more information, see Note 1 - Summary of Significant Accounting Principles to the Consolidated Financial Statements of the

Corporation's 2017 Annual Report on Form 10-K and Note 5 - Outstanding Loans and Leases to the Consolidated Financial Statements herein.

Table 25 presents the unpaid principal balance, carrying value, related valuation allowance and the net carrying value as a percentage of the unpaid principal balance for the PCI loan portfolio.

Table 25

Purchased Credit-impaired Loan Portfolio

		Unpaid Principal Balance		Gross Carrying Value		Related Valuation Allowance	Carrying Value let of Valuation Allowance	Percent of Unpaid Principal Balance
(Dollars in millions)					Sep	otember 30, 2018		
Residential mortgage (1)	\$	5,454	\$	5,341	\$	51	\$ 5,290	96.99%
Home equity		1,872 \$ 7,326 \$		1,811		99	1,712	91.45
Total purchased credit-impaired loan portfolio	\$			7,152	\$	150	\$ 7,002	95.58
						December 31, 2017		
Residential mortgage (1)	\$	8,117	\$	8,001	\$	117	\$ 7,884	97.13%
Home equity		2,787		2,716		172	2,544	91.28
Total purchased credit-impaired loan portfolio	\$	10,904	\$	10,717	\$	289	\$ 10,428	95.63

⁽¹⁾ At September 30, 2018 and December 31, 2017, pay option loans had an unpaid principal balance of \$974 million and \$1.4 billion and a carrying value of \$965 million and \$1.4 billion. This includes \$852 million and \$1.2 billion and \$1.2 billion and \$1.4 billi

⁽¹⁾ Outstandings and nonperforming loans exclude loans accounted for under the fair value option.
(2) Nationary offs exclude \$34 million and \$74 million and \$74 million and \$74 million of wite-offs in the home equity PCI loan portfolio for the three and nine months ended September 30, 2018 compared to \$11 million and \$49 million for the same periods in 2017. For more information on PCI write-offs, see Consumer Portfolio (ored files) the Americans acount order following a legal proceeding (judicial states).
(4) Amount excludes the PCI home equity portfolio.
(5) At September 30, 2018 and December 31, 2017, 30 percent and 28 percent of PCI home equity loans were in California. There were no other significant single state concentrations.

The total PCI unpaid principal balance decreased \$3.6 billion, or 33 percent, during the nine months ended September 30, 2018 primarily driven by loan sales with a carrying value of \$2.1 billion compared to sales of \$742 million for the same period in 2017.

Of the unpaid principal balance of \$7.3 billion at September 30, 2018, \$6.5 billion, or 89 percent, was current based on the contractual terms, \$464 million, or six percent, was in early stage delinquency, and \$252 million was 180 days or more past due, including \$210 million of first-lien mortgages and \$42 million of home equity loans.

The PCI residential mortgage loan and home equity portfolios represented 75 percent and 25 percent of the total PCI loan portfolio at September 30, 2018. Those loans to borrowers with a refreshed FICO score below 620 represented 22 percent and 16 percent of the PCI residential mortgage loan and home equity portfolios at September 30, 2018. Residential mortgage and home equity loans with a refreshed LTV or CLTV greater than 90 percent, after consideration of purchase accounting adjustments and the related valuation allowance, represented 12 percent and 29 percent of their respective PCI loan portfolios and 13 percent and 32 percent based on the unpaid principal balance at September 30, 2018.

U.S. Credit Card

At September 30, 2018, 97 percent of the U.S. credit card portfolio was managed in Consumer Banking with the remainder in GWM. Outstandings in the U.S. credit card portfoliodecreased \$1.5 billion to \$94.8 billion during the nine months ended September 30, 2018 due to paydowns and a seasonal decline in purchase volume, as well as a portfolio transfer of approximately \$600 million to held for sale in the first quarter. Net charge-offs increased \$86 million to \$698 million and \$280 million to \$2.1 billion for the three and nine months ended September 30, 2018 compared to the same periods in 2017 due to portfolio seasoning and loan growth. U.S. credit card loans 30 days or more past due and still accruing interest decreased \$42 million during the nine months ended September 30, 2018 driven by a reduction in 2017 hurricane-related delinquencies, and loans 90 days or more past due and still accruing interest decreased \$28 million.

Unused lines of credit for U.S. credit card totaled \$337.9 billion and \$326.3 billion at September 30, 2018 and December 31, 2017. The increase was driven by a seasonal decrease in line utilization due to a decrease in transaction volume as well as account growth and lines of credit increases.

Table 26 presents certain state concentrations for the U.S. credit card portfolio.

Table 26

U.S. Credit Card State Concentrations

		Outst	anding	s		Accruing 90 Days				Net Ch	arge-	offs	
		tember 30	-	December 31				December 24	Three Mo Septe	 		Nine Mor Septe	
(Dollars in millions)	Эер	2018		2017	September 30 December 31 2018 2017			2018	2017		2018	2017	
California	\$	15,304	\$	15,254	\$	141	\$	136	\$ 119	\$ 104	\$	357	\$ 303
Florida		8,408		8,359		102		94	80	58		248	195
Texas		7,448		7,451		75		76	54	46		169	143
New York		5,886		5,977		74		91	66	59		208	155
Washington		4,329		4,350		20		20	15	13		47	41
Other		53,454		54,894		460		483	364	332		1,109	1,021
Total U.S. credit card portfolio	\$	94,829	\$	96,285	\$	872	\$	900	\$ 698	\$ 612	\$	2,138	\$ 1,858

Direct/Indirect Consumer

At September 30, 2018, 55 percent of the direct/indirect portfolio was included in Consumer Banking (consumer auto and specialty lending – automotive, marine, aircraft, recreational vehicle loans and consumer personal loans) and 45 percent was included in GWIM (principally securities-based lending loans).

Outstandings in the direct/indirect portfolio decreased \$5.0 billion to \$91.3 billion during the nine months ended September 30, 2018 primarily due to declines in securities-based lending due

to higher paydowns, and in our auto portfolio as paydowns outpaced originations. Net charge-offs decreased \$26 million to \$42 million and \$7 million to \$142 million for the three and nine months ended September 30, 2018 compared to the same periods in 2017 due largely to clarifying regulatory guidance related to bankruptcy and repossession issued during 2017.

Table 27 presents certain state concentrations for the direct/indirect consumer loan portfolio.

Table 27 Direct/Indirect State Concentrations

		Outsta	andin	ıgs	Accruing 90 Days			Net Cha	arge	-offs	
	Sam	tember 30		December 31	September 30	December 31	 Three Mo Septer			Nine Mon Septer	
(Dollars in millions)	Бер	2018		2017	2018	2017	2018	2017		2018	2017
California	\$	11,868	\$	12,897	\$ 3	\$ 3	\$ 5	\$ 7	\$	16	\$ 14
Florida		10,242		11,184	4	5	9	15		28	31
Texas		9,951		10,676	6	5	6	13		22	29
New York		6,403		6,557	2	2	2	2		7	3
New Jersey		3,306		3,449	1	1	-	_		2	2
Other		49,568		51,579	19	24	20	31		67	70
Total direct/indirect loan portfolio	\$	91,338	\$	96,342	\$ 35	\$ 40	\$ 42	\$ 68	\$	142	\$ 149

Nonperforming Consumer Loans, Leases and Foreclosed Properties Activity

Table 28 presents nonperforming consumer loans, leases and foreclosed properties activity for the three and nine months ended September 30, 2018 and 2017. For more information on nonperforming loans, see Note 1 - Summary of Significant Accounting Principles to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-K and Note 5 – Outstanding Loans and Leases to the Consolidated Financial Statements herein. During the nine months ended September 30, 2018, nonperforming consumer loans declined \$860 million to \$4.3 billion primarily driven by loan sales of \$531 million.

At September 30, 2018, \$1.3 billion, or 31 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 September 30, 2018, \$2.1 billion, or 48 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 increased \$29 million to \$265 million during the nine months ended September 30, 2018 as additions

outpaced liquidations. PCI loans are excluded from nonperforming loans as these loans were written down to fair value at the acquisition date; however, once we acquire the underlying real estate upon foreclosure of the delinquent PCI loan, it is included in foreclosed properties. 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 September 30, 2018 and December 31, 2017, \$225 million and \$330 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, excluding those modified loans in the PCI loan portfolio, are included in Table 28.

Table 28 Nonperforming Consumer Loans, Leases and Foreclosed Properties Activity

	Three Mor Septer	 	Nine Mon Septen	
(Dollars inmillions)	2018	2017	2018	2017
Nonperforming loans and leases, beginning of period	\$ 4,639	\$ 5,282	\$ 5,166	\$ 6,004
Additions	484	999	1,895	2,499
Reductions:				
Paydowns and payoffs	(238)	(253)	(744)	(811)
Sales	(145)	(162)	(531)	(423)
Returns to performing status (1)	(309)	(347)	(1,009)	(1,101)
Charge-offs	(89)	(210)	(350)	(551)
Transfers to foreclosed properties	(36)	(57)	(119)	(167)
Transfers to loans held-for-sale	_	_	(2)	(198)
Total net reductions to nonperforming loans and leases	(333)	(30)	(860)	(752)
Total nonperforming loans and leases, September 30	4,306	5,252	4,306	5,252
Foreclosed properties, September 30 (2)	265	259	265	259
Nonperforming consumer loans, leases and foreclosed properties, September 30	\$ 4,571	\$ 5,511	\$ 4,571	\$ 5,511
Nonperforming consumer loans and leases as a percentage of outstanding consumer loans and leases (3)	0.97%	1.17%		
Nonperforming consumer loans, leases and foreclosed properties as a percentage of outstanding consumer loans, leases and foreclosed properties (3)	1.03	1.23		

(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.
(2) Foreclosed property balances do not include properties insured by certain government-guaranteed loans, principally FHA insured, of \$500 million and \$879 million at September 30, 2018 and 2017.
(3) Outstanding consumer loans and leases exclude loans accounted for under the fair value option.

Table 29 presents TDRs for the consumer real estate portfolio. Performing TDR balances are excluded from nonperforming loans and leases in Table 28.

Table 29 Consumer Real Estate Troubled Debt Restructurings

			Sept	ember 30, 2018			De	cember 31, 2017	
(Dollars in millions)	Non	performing		Performing	Total	Nonperforming		Performing	Total
Residential mortgage (1, 2)	\$	1,295	\$	5,703	\$ 6,998	\$ 1,535	\$	8,163	\$ 9,698
Home equity (3)		1,308		1,369	2,677	1,457		1,399	2,856
Total consumer real estate troubled debt restructurings	\$	2,603	\$	7,072	\$ 9,675	\$ 2,992	\$	9,562	\$ 12,554

⁽¹⁾ At September 30, 2018 and December 31, 2017, residential mortgage TDRs deemed collateral dependent totaled \$1.7 billion and \$2.8 billion, and included \$1.0 billion and \$1.2 billion of loans classified as nonperforming and \$668 million and \$1.6 billion of loans classified as performing.

(2) Residential mortgage performing TDRs included \$3.0 billion and \$3.7 billion of loans that were fully insured at September 30, 2018 and December 31, 2017.

(3) Home equity TDRs deemed collateral dependent totaled \$1.5 billion and \$1.6 billion and \$1.6 billion and \$1.2 billion of loans classified as nonperforming at September 30, 2018 and December 31, 2017, and \$363 million and \$388 million of loans classified as performing.

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

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 28 as substantially all of the loans remain on accrual status until either charged off or paid in full. At September 30, 2018 and December 31, 2017, our renegotiated TDR portfolio was \$541 million and \$490 million, of which \$465 million and \$426 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 the run off of existing portfolios. For more information on the renegotiated TDR portfolio, see Note 5 - Outstanding Loans and Leases to the Consolidated Financial Statements.

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 34, 37 and 41 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 41.

For more information on our accounting policies regarding nonperforming status, net charge-offs and delinquencies for the commercial portfolio, see Note 1 - Summary of Significant Accounting Principles to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-K.

Commercial Credit Portfolio

During the nine months ended September 30, 2018, credit quality among large corporate borrowers was strong, and there was continued improvement in the energy portfolio. Credit quality of commercial real estate borrowers in most sectors remained stable with conservative LTV ratios, stable market rents and vacancy rates that remain

Total commercial utilized credit exposure decreased \$895 million during the nine months ended September 30, 2018 primarily driven by decreases in loans held-for-sale (LHFS) and debt securities and other investments, partially offset by an increase in derivative assets. 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 September 30, 2018 and December 31, 2017.

Table 30 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 vet been advanced, these exposure types are considered utilized for credit risk management purposes.

Table 30

Commercial Credit Exposure by Type

		Commercia	al Utiliz	ed (1)		Commercial U	nfunde	ed (2, 3, 4)		Total Commer	cial C	ommitted
(Dollars in millions)	Sep	tember 30 2018	С	December 31 2017	Se	ptember 30 2018	[December 31 2017	Se	ptember 30 2018		December 31 2017
Loans and leases (5)	\$	489,368	\$	487,748	\$	369,332	\$	364,743	\$	858,700	\$	852,491
Derivative assets (6)		45,617		37,762		_		_		45,617		37,762
Standby letters of credit and financial guarantees		33,271		34,517		524		863		33,795		35,380
Debt securities and other investments		25,636		28,161		4,692		4,864		30,328		33,025
Loans held-for-sale		3,737		10,257		16,171		9,742		19,908		19,999
Commercial letters of credit		1,336		1,467		296		155		1,632		1,622
Other		940		888		-		_		940		888
Total	\$	599,905	\$	600,800	\$	391,015	\$	380,367	\$	990,920	\$	981,167

- Commercial utilized exposure includes loans of \$5.0 billion and \$4.8 billion and issued letters of credit with a notional amount of \$55 million and \$232 million accounted for under the fair value option at September 30, 2018 and December 31, 2017.
- 2 Commercial unfunded exposure includes commitments accounted for under the fair value option with a notional amount of \$3.1 billion and \$4.6 billion at September 30, 2018 and December 31, 2017.

 3 Excludes unused business card lines, which are not legally binding.

 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 \$10.8 billion and \$11.0 billion at September 30, 2018 and December 31, 2017.
- (5) Includes credit risk exposure associated with assets under operating lease arrangements of \$6.1 billion and \$6.3 billion at September 30, 2018 and December 31, 2017.
- (6) Derivative assets are carried at fair value, reflect the effects of legally enforceable master netting agreements and have been reduced by cash collateral of \$32.0 billion and \$34.6 billion at September 30, 2018 and December 31, 2017. Not reflected in utilized and committed exposure is additional noncash derivative collateral held of \$35.7 billion and \$26.2 billion at September 30, 2018 and December 31, 2017, which consists primarily of other marketable securities.

Outstanding commercial loans and leases increased \$1.8 billion during the nine months ended September 30, 2018 primarily in the commercial real estate portfolio. The allowance for loan and lease losses for the commercial portfolio decreased \$256 million to \$4.8 billion at September 30, 2018. For more information, see Allowance for Credit Losses on page 44. Table 31 presents our commercial loans and leases portfolio and related credit quality information at September 30, 2018 and December 31, 2017.

Table 31 Commercial Credit Quality

		Outsta	ndin	gs		Nonperfe	orm	ing	Accruing 90 Days	
(Dollars in millions)	Se	ptember 30 2018		December 31 2017	S	September 30 2018		December 31 2017	September 30 2018	December 31 2017
Commercial and industrial:										
U.S. commercial	\$	285,662	\$	284,836	\$	699	\$	814	\$ 114	\$ 144
Non-U.S. commercial		96,002		97,792		31		299	_	3
Total commercial and industrial		381,664		382,628		730		1,113	114	147
Commercial real estate (1)		60,835		58,298		46		112	1	4
Commercial lease financing		21,546		22,116		14		24	33	19
		464,045		463,042		790		1,249	148	170
U.S. small business commercial (2)		14,234		13,649		58		55	73	75
Commercial loans excluding loans accounted for under the fair value option		478,279		476,691		848		1,304	221	245
Loans accounted for under the fair value option (3)		4,976		4,782		_		43	_	_
Total commercial loans and leases	\$	483,255	\$	481,473	\$	848	\$	1,347	\$ 221	\$ 245

⁽¹⁾ Includes U.S. commercial real estate of \$56.9 billion and \$54.8 billion and non-U.S. commercial real estate of \$3.9 billion and \$3.5 billion at September 30, 2018 and December 31, 2017.

Table 32 Commercial Net Charge-offs and Related Ratios

			Net Ch	arge-	offs			Net Charge-off	Ratios (1)		
	 Three Mo Septe	nths Er mber 3			Nine Mor Septe	 	Three Month Septembe		Nine Months Ended September 30		
(Dollars in millions)	2018		2017		2018	2017	2018	2017	2018	2017	
Commercial and industrial:											
U.S. commercial	\$ 70	\$	80	\$	172	\$ 176	0.10%	0.11%	0.08%	0.09%	
Non-U.S. commercial	25		33		48	94	0.10	0.14	0.07	0.14	
Total commercial and industrial	95		113		220	270	0.10	0.12	0.08	0.10	
Commercial real estate	2		2		3	3	0.02	0.02	0.01	0.01	
Commercial lease financing	_		(1)		_	_	-	(0.02)	_	_	
	97		114		223	273	0.08	0.10	0.06	0.08	
U.S. small business commercial	59		55		180	160	1.67	1.61	1.72	1.60	
Total commercial	\$ 156	\$	169	\$	403	\$ 433	0.13	0.14	0.11	0.13	

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

Table 33 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 decreased \$2.0 billion, or 14 percent, during the nine months ended September 30, 2018 driven by broad-based improvements including the energy sector. At September 30, 2018 and December 31, 2017, 87 percent and 84 percent of commercial reservable criticized utilized exposure was secured.

Table 33 Commercial Reservable Criticized Utilized Exposure (1, 2)

(Dollars in millions)	September 30,	2018	December 31, 2	017
Commercial and industrial:				
U.S. commercial	\$ 8,631	2.75%	\$ 9,891	3.15%
Non-U.S. commercial	1,298	1.27	1,766	1.70
Total commercial and industrial	9,929	2.39	11,657	2.79
Commercial real estate	565	0.91	566	0.95
Commercial lease financing	373	1.73	581	2.63
	10,867	2.18	12,804	2.57
U.S. small business commercial	730	5.13	759	5.56
Total commercial reservable criticized utilized exposure (1)	\$ 11,597	2.26	\$ 13,563	2.65

⁽¹⁾ Total commercial reservable criticized utilized exposure includes loans and leases of \$10.7 billion and \$12.5 billion and commercial letters of credit of \$866 million and \$1.1 billion at September 30, 2018 and December 31, 2017. (2) Percentages are calculated as commercial reservable criticized utilized exposure divided by total commercial reservable utilized exposure for each exposure category.

⁽²⁾ Includes card-related products.
(3) Commercial loans accounted for under the fair value option include U.S. commercial of \$3.6 billion and \$2.6 billion and non-U.S. commercial of \$1.4 billion and \$2.2 billion at September 30, 2018 and December 31, 2017. For more information on the fair value option, see Note 15 – Fair Value Option to the Consolidated Financial Statements

Table 32 presents net charge-offs and related ratios for our commercial loans and leases for the three and nine months ended September 30, 2018 and 2017.

Commercial and Industrial

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

U.S. Commercial

At September 30, 2018, 69 percent of the U.S. commercial loan portfolio, excluding small business, was managed in *Global Banking* 16 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 remained relatively unchanged during the nine months ended September 30, 2018. Reservable criticized utilized exposure decreased \$1.3 billion, or 13 percent, driven by broad-based improvements including the energy sector.

Non-U.S. Commercial

At September 30, 2018, 80 percent of the non-U.S. commercial loan portfolio was managed in *Global Banking* and 20 percent in *Global Markets*. Outstanding loans decreased \$1.8 billion during the nine months ended September 30, 2018 driven by paydowns primarily in *Global Markets*. Reservable criticized utilized exposure decreased \$468 million, or 27 percent, and nonperforming loans and leases decreased \$268 million, or 90 percent, due primarily to paydowns and sales. For additional information on the non-U.S. commercial portfolio, see Non-U.S. Portfolio on page 43.

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. The portfolio remains diversified across property types and geographic regions. California represented the largest state concentration at 23 percent of the commercial real estate loans and leases portfolio at both September 30, 2018 and December 31, 2017. 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. Outstanding loans increased \$2.5 billion, or four percent, during the nine months ended September 30, 2018 to \$60.8 billion due to new originations, including higher hold levels on syndicated loans, outpacing paydowns.

For the three and nine months ended September 30, 2018, 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 ackersely 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 decreased \$88 million, or 54 percent, during the nine months ended September 30, 2018 to \$76 million at September 30, 2018, primarily due to loan paydowns.

Table 34 presents outstanding commercial real estate loans by geographic region, based on the geographic location of the collateral, and by property type.

Table 34 Outstanding Commercial Real Estate Loans

(Dallars in millions)	September 30 2018	I	December 31 2017
By Geographic Region			
California	\$ 14,227	\$	13,607
Northeast	10,954		10,072
Southwest	7,374		6,970
Southeast	5,718		5,487
Midwest	3,916		3,769
Florida	3,559		3,170
Illinois	2,970		3,263
Mdsouth	2,917		2,962
Northwest	2,290		2,657
Non-U.S.	3,937		3,538
Other (1)	2,973		2,803
Total outstanding commercial real estate loans	\$ 60,835	\$	58,298
By Property Type			
Non-residential			
Office	\$ 17,680	\$	16,718
Shopping centers / Retail	8,752		8,825
Multi-family rental	8,180		8,280
Hotels/Motels	6,944		6,344
Industrial / Warehouse	5,364		6,070
Unsecured	3,146		2,187
Multi-use	2,390		2,771
Land and land development	140		160
Other	6,642		5,485
Total non-residential	59,238		56,840
Residential	1,597		1,458
Total outstanding commercial real estate loans	\$ 60,835	\$	58,298

⁽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 card-related products were 51 percent and 50 percent of the U.S. small business commercial portfolio at September 30, 2018 and December 31, 2017. Of the U.S. small business commercial net charge-offs, 95 percent and 94 percent were credit card-related products for the three and nine months ended September 30, 2018 compared to 92 percent and 90 percent for the same periods in 2017.

Nonperforming Commercial Loans, Leases and Foreclosed **Properties Activity**

Table 35 presents the nonperforming commercial loans, leases and foreclosed properties activity during thethree and nine months ended September 30, 2018 and 2017. Nonperforming loans do not include loans accounted for under the fair value option. During the nine months ended September 30, 2018, nonperforming commercial loans and leases decreased \$456 million to \$848

million. At September 30, 2018, 96 percent of commercial nonperforming loans, leases and foreclosed properties were secured and 46 percent were contractually current. Commercial nonperforming loans were carried at 82 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 35 Nonperforming Commercial Loans, Leases and Foreclosed Properties Activity (1, 2)

	Three Mo Septer			Nine Mon Septen	
(Dollars in millions)	2018	2017	2018		2017
Nonperforming loans and leases, beginning of period	\$ 1,258	\$ 1,520	\$	1,304	\$ 1,703
Additions	235	412		915	1,172
Reductions:					
Paydowns	(287)	(270)		(649)	(803)
Sales	(130)	(61)		(204)	(116)
Returns to performing status (3)	(95)	(100)		(213)	(240)
Charge-offs	(116)	(145)		(276)	(312)
Transfers to foreclosed properties	(12)	_		(12)	(27)
Transfers to loans held-for-sale	(5)	(38)		(17)	(59)
Total net reductions to nonperforming loans and leases	(410)	(202)		(456)	(385)
Total nonperforming loans and leases, September 30	848	1,318		848	1,318
Foreclosed properties, September 30	30	40		30	40
Nonperforming commercial loans, leases and foreclosed properties, September 30	\$ 878	\$ 1,358	\$	878	\$ 1,358
Nonperforming commercial loans and leases as a percentage of outstanding commercial loans and leases (4)	0.18%	0.28%			
Nonperforming commercial loans, leases and foreclosed properties as a percentage of outstanding commercial loans, leases and foreclosed properties (4) [4] Balances do not include properforming LHSS of \$177 million and \$322 million at September 30, 2018 and 2017	0.18	0.29			

(3) Balances do not include ronperforming LHFS of \$177 million and \$322 million at September 30, 2018 and 2017.
(2) Includes U.S. small business commercial activity. Small business card loans are evoluded as they are not classified as nonperforming.
(3) Commercial loans and leases may be returned to performing atter a sustained period of demonstrated payment performance.
(4) Outstanding commercial loans evolude loans accounted for under the fair value option.

Table 36 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 36 **Commercial Troubled Debt Restructurings**

							December 31, 2017							
(Dollars in millions)	Non	erforming		Performing		Total		Nonperforming		Performing		Total		
Commercial and industrial:														
U.S. commercial	\$	285	\$	1,058	\$	1,343	\$	370	\$	866	\$	1,236		
Non-U.S. commercial		9		204		213		11		219		230		
Total commercial and industrial		294		1,262		1,556		381		1,085		1,466		
Commercial real estate		4		6		10		38		9		47		
Commercial lease financing		2		72		74		5		13		18		
		300		1,340		1,640		424		1,107		1,531		
U.S. small business commercial		4		18		22		4		15		19		
Total commercial troubled debt restructurings	\$	304	\$	1,358	\$	1,662	\$	428	\$	1,122	\$	1,550		

Industry Concentrations

Table 37 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 increased \$9.8 billion, or one percent, during the nine months ended September 30, 2018 to \$990.9 billion. The increase in commercial committed exposure was concentrated in the Asset Managers and Funds, Real Estate, Capital Goods and Food, Beverage and Tobacco industry sectors. Increases were partially offset by reduced exposure to the Food and Staples Retailing, Media and Global Commercial Banks 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 \$103.1 billion, increased \$12.0 billion, or 13 percent, during the nine months ended September 30, 2018. The change reflects an increase in exposure to several counterparties.

Real Estate, our second largest industry concentration with committed exposure of \$90.7 billion, increased \$6.9 billion, or eight percent, during the nine months ended September 30, 2018. For more information on the commercial real estate and related portfolios, see Commercial Portfolio Credit Risk Management - Commercial Real Estate on page 39.

Capital Goods, our third largest industry concentration with committed exposure of \$74.7 billion, increased \$4.3 billion, or six percent, during the nine months ended September 30, 2018. The increase in committed exposure occurred primarily as a result of increases in large conglomerates, as well as trading companies and distributors, partially offset by a decrease in machinery companies.

Our energy-related committed exposure decreased \$2.3 billion, or six percent, during the nine months ended September 30, 2018 to \$34.5 billion. Energy sector net charge-offs were \$34 million for the nine months ended September 30, 2018 compared to \$131 million for the same period in 2017. Energy sector reservable criticized exposure decreased \$745 million during the nine months ended September 30, 2018 to \$875 million due to improvement in credit quality of some borrowers coupled with exposure reductions. The energy allowance for credit losses decreased \$225 million during the nine months ended September 30, 2018 to \$335 million.

Table 37 Commercial Credit Exposure by Industry (1)

			mercial lized			Total Co Comm	
(Dollars in millions)	Se	ptember 30 2018	C	December 31 2017	Se	ptember 30 2018	December 31 2017
Asset managers and funds	\$	68,733	\$	59,190	\$	103,066	\$ 91,092
Real estate (3)		64,460		61,940		90,664	83,773
Capital goods		40,327		36,705		74,720	70,417
Government and public education		44,436		48,684		55,296	58,067
Healthcare equipment and services		34,943		37,780		54,889	57,256
Finance companies		33,549		34,050		53,375	53,107
Materials		25,727		24,001		49,461	47,386
Retailing		25,714		26,117		47,823	48,796
Food, beverage and tobacco		23,199		23,252		45,166	42,815
Consumer services		24,975		27,191		42,276	43,605
Commercial services and supplies		21,861		22,100		37,644	35,496
Energy		16,319		16,345		34,462	36,765
Transportation		21,887		21,704		30,694	29,946
Media		10,581		19,155		28,523	33,955
Global commercial banks		25,471		29,491		27,752	31,764
Utilities		11,496		11,342		27,495	27,935
Individuals and trusts		18,706		18,549		25,332	25,097
Technology hardware and equipment		10,054		10,728		21,759	22,071
Pharmaceuticals and biotechnology		7,430		5,653		19,396	18,623
Vehicle dealers		15,930		16,896		19,128	20,361
Consumer durables and apparel		9,432		8,859		18,129	17,296
Software and services		7,489		8,562		16,558	18,202
Automobiles and components		6,990		5,988		14,271	13,318
Insurance		5,818		6,411		13,785	12,990
Telecommunication services		6,837		6,389		12,786	13,108
Food and staples retailing		4,840		4,955		10,100	15,589
Religious and social organizations		3,705		4,454		5,586	6,318
Financial markets infrastructure (dearinghouses)		1,111		688		2,906	2,403
Other		7,885		3,621		7,878	3,616
Total commercial credit exposure by industry	\$	599,905	\$	600,800	\$	990,920	\$ 981,167
Net credit default protection purchased on total commitments (4)					\$	(2,197)	\$ (2,129)

⁽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., syndcated or participated) to other financial institutions. The distributed amounts were \$10.8 billion and \$11.0 billion at September 30, 2018 and December 31, 2017.

⁽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 reprument as key factors.

repayment as key factors.

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

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 September 30, 2018 and December 31, 2017, 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 \$2.2 billion and \$2.1 billion. We recorded net losses of \$33 million and \$43 million for the three and nine months ended September 30, 2018 compared to net losses of \$10 million and \$57 million for the same periods in 2017 on these positions. 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 44. For more information, see Trading Risk Management on page 47.

Tables 38 and 39 present the maturity profiles and the credit exposure debt ratings of the net credit default protection portfolio at September 30, 2018 and December 31, 2017.

Table 38 Net Credit Default Protection by Maturity

	September 30 2018	December 31 2017
Less than or equal to one year	33%	42%
Greater than one year and less than or equal to five years	61	58
Greater than five years	6	_
Total net credit default protection	100%	100%

Table 39 Net Credit Default Protection by Credit Exposure Debt Rating

	Net Notional (1)	Percent of Total		Net Notional (1)	Percent of Total				
(Dollars in millions)	Septembe	r 30, 2018	December 31, 2017						
Ratings (2, 3)									
Α :	\$ (546)	24.9%	\$	(280)	13.2%				
BBB	(259)	11.8		(459)	21.6				
BB	(794)	36.1		(893)	41.9				
В	(373)	17.0		(403)	18.9				
CCC and below	(198)	9.0		(84)	3.9				
NR (4)	(27)	1.2		(10)	0.5				
Total net credit default protection	\$ (2,197)	100.0%	\$	(2,129)	100.0%				

In addition to our net notional credit default protection purchased to cover the funded and unfunded portion of certain credit exposures, credit derivatives are used for market-making activities for clients and establishing positions intended to profit from directional or relative value changes. We execute the majority of our credit derivative trades in the OTC market with large, multinational financial institutions, including broker-dealers and.

to a lesser degree, with a variety of other investors. Because these transactions are executed in the OTC market, we are subject to settlement risk. We are also subject to credit risk in the event that these counterparties fail to perform under the terms of these contracts. In most cases, credit derivative transactions are executed on a daily margin basis. Therefore, events such as a credit downgrade, depending on the ultimate rating level, or a breach of credit covenants would typically require an increase in the amount of collateral required by the counterparty, where applicable, and/or allow us to take additional protective measures such as early termination of all trades.

Table 40 presents the total contract/notional amount of credit derivatives outstanding and includes both purchased and written credit derivatives. The credit risk amounts are measured as net asset exposure by counterparty, taking into consideration all contracts with the counterparty. For more information on our written credit derivatives, see Note 3 - Derivatives to the Consolidated Financial Statements.

The credit risk amounts discussed above and presented in Table 40 take into consideration the effects of legally enforceable master netting agreements while amounts disclosed in Note 3 - Derivatives to the Consolidated Financial Statements are shown on a gross basis. Credit risk reflects the potential benefit from offsetting exposure to non-credit derivative products with the same counterparties that may be netted upon the occurrence of certain events, thereby reducing our overall exposure.

Table 40 Credit Derivatives

	ontract/ lotional	Cre	edit Risk
(Dollars in billions)	 Septembe	er 30, 20	18
Purchased credit derivatives:			
Credit default swaps	\$ 430.3	\$	2.2
Total return swaps/options	64.6		0.5
Total purchased credit derivatives	\$ 494.9	\$	2.7
Written credit derivatives:			
Credit default swaps	\$ 398.2		n/a
Total return swaps/options	62.5		n/a
Total written credit derivatives	\$ 460.7		n/a
	Decembe	er 31, 201	7
Purchased credit derivatives:			
Credit default swaps	\$ 470.9	\$	2.4
Total return swaps/options	54.1		0.3
Total purchased credit derivatives	\$ 525.0	\$	2.7
Written credit derivatives:			
Credit default swaps	\$ 448.2		n/a
Total return swaps/options	55.2		n/a
Total written credit derivatives	\$ 503.4		n/a
n/a = not applicable			

We record counterparty credit risk valuation adjustments on certain derivative assets, including our credit default protection purchased, in order to properly reflect the credit risk of the counterparty. For more information, see Note 3 - Derivatives to the Consolidated Financial Statements herein and Note 2 - Derivatives to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form

Represents net credit default protection purchased.
 Railings are refreshed on a quarterly basis.
 Railings of BBB or higher are considered to meet the definition of investment grade.
 Railings of BBB or higher are considered to meet the definition of investment grade.
 Railings of Railin

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 41 presents our 20 largest non-U.S. country exposures at September 30, 2018. These exposures accounted for 90 percent and 86 percent of our total non-U.S. exposure at September 30, 2018 and December 31, 2017. Net country exposure for these 20 countries increased \$45.5 billion in the nine months ended September 30, 2018, primarily driven by increased placements with central banks in the U.K., Japan and Germany.

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. For more information on our non-U.S. credit and trading portfolios, see Non-U.S. Portfolio in the MD&A of the Corporation's 2017 Annual Report on Form 10-K.

Table 41

Top 20 Non-U.S. Countries Exposure

(Dollars in millions)	d Loans and Equivalents	Unfunded Loan Commitments	N	Net Counterparty Exposure	Securities/ Other Investments	intry Exposure at September 30 2018	edges and Credit efault Protection	Net Country Exposure at eptember 30 2018	Increase (Decrease) from December 31 2017
United Kingdom	\$ 39,114	\$ 15,034	\$	5,601	\$ 1,111	\$ 60,860	\$ (3,757)	\$ 57,103	\$ 19,508
Germany	26,417	6,278		2,428	789	35,912	(3,499)	32,413	10,910
Japan	17,109	2,280		1,397	2,781	23,567	(1,418)	22,149	13,059
Canada	7,515	6,944		1,669	2,682	18,810	(462)	18,348	(375)
France	6,654	5,590		2,935	3,347	18,526	(3,429)	15,097	4,554
China	12,307	377		1,096	866	14,646	(292)	14,354	(1,571)
Netherlands	7,220	2,044		817	1,306	11,387	(922)	10,465	1,998
Australia	5,188	3,524		589	1,550	10,851	(612)	10,239	(350)
Brazil	6,779	811		326	2,323	10,239	(391)	9,848	(868)
India	6,656	513		343	2,205	9,717	(104)	9,613	(884)
South Korea	5,561	613		684	1,554	8,412	(284)	8,128	227
HongKong	6,144	216		475	1,289	8,124	(34)	8,090	(588)
Switzerland	4,752	3,128		331	199	8,410	(1,030)	7,380	1,583
Singapore	3,305	142		602	1,739	5,788	(71)	5,717	(546)
Mexico	3,349	1,450		99	684	5,582	(151)	5,431	(56)
Belgium	3,444	1,029		124	407	5,004	(509)	4,495	530
United Arab Emirates	2,895	154		142	107	3,298	(17)	3,281	(106)
Spain	2,470	990		144	860	4,464	(1,379)	3,085	(23)
Taiwan	1,741	13		405	597	2,756	_	2,756	44
Italy	 2,256	1,007		615	527	4,405	(1,679)	2,726	(1,520)
Total top 20 non-U.S. countries exposure	\$ 170,876	\$ 52,137	\$	20,822	\$ 26,923	\$ 270,758	\$ (20,040)	\$ 250,718	\$ 45,526

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 September 30, 2018 was China, with net exposure of \$14.4 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. Our largest EU country exposure at September 30, 2018 was the U.K. with net exposure of \$57.1 billion, a \$19.5 billion increase from December 31, 2017. The increase was driven by corporate loan growth and increased placements with the central bank as part of liquidity management.

Markets have reacted negatively to the escalating tensions between the U.S. and several key trading partners. We are closely monitoring our exposures to tariff-sensitive industries and our international exposure, particularly to countries that account for a large percentage of U.S. trade.

Provision for Credit Losses

The provision for credit losses decreased \$118 million to \$716 million, and \$18 million to \$2.4 billion for the three and nine months ended September 30, 2018 compared to the same periods in 2017. The provision for credit losses was \$216 million and \$462 million lower than net charge-offs for the three and nine months ended September 30, 2018, resulting in a decrease in the allowance for credit losses. This compared to a reduction of \$66 million and \$347 million in the allowance for credit losses for the three and nine months ended September 30, 2017.

The provision for credit losses for the consumer portfolio decreased \$20 million to \$710 million, and increased \$107 million to \$2.2 billion for the three and nine months ended September 30, 2018 compared to the same periods in 2017. The decrease in the three-month period was primarily driven by a lower reserve build in the U.S. credit card portfolio. The increase in the nine-month period was primarily driven by portfolio seasoning and loan growth in the U.S. credit card portfolio and a slower pace of improvement in the consumer real estate portfolio, partially offset by the sale of the non-U.S. consumer credit card business in the second quarter of 2017. Included in the provision is an expense of \$53 million and \$28 million related to the PCI loan portfolio for the three and nine months ended September 30, 2018 compared to an expense of \$12 million and \$56 million for the same periods in 2017.

The provision for credit losses for the commercial portfolio, including unfunded lending commitments, decreased \$98 million to \$6 million, and \$125 million to \$162 million for the three and nine months ended September 30, 2018 compared to the same periods in 2017. The decrease for both periods was primarily driven by improvement in asset quality in the commercial portfolio including energy exposures.

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. 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 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 2017 Annual Report on Form 10-K.

During the three and nine months ended September 30, 2018, 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 \$860 million in the nine months ended September 30, 2018 as returns to performing status, paydowns, loan sales and charge-offs continued to outpace new nonaccrual loans. During the nine months ended September 30, 2018, the allowance for loan and lease losses in the commercial portfolio reflected decreased energy reserves primarily driven by improvement in energy exposures including reservable criticized utilized exposures.

The allowance for loan and lease losses for the consumer portfolio, as presented in Table 43, was \$5.0 billion at September 30, 2018, a decrease of \$403 million from December 31, 2017. 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 43, was \$4.8 billion at September 30, 2018, a decrease of \$256 million from December 31, 2017 primarily driven by improvement in energy exposures. Commercial reservable criticized utilized exposure decreased to \$11.6 billion at September 30, 2018 from \$13.6 billion (to 2.26 percent from 2.65 percent of total commercial reservable utilized exposure) at December 31, 2017, driven by broad-based improvements including the energy sector. Nonperforming commercial loans decreased to \$848 million at September 30, 2018 from \$1.3 billion (to 0.18 percent from 0.27 percent of outstanding commercial loans excluding loans accounted for under the fair value option) at December 31, 2017. See Tables 31, 32 and 33 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 1.05 percent at September 30, 2018 compared to 1.12 percent at December 31, 2017.

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 2017 Annual Report on Form 10-K.

The reserve for unfunded lending commitments was \$792 million at September 30, 2018 compared to \$777 million at December 31, 2017.

Table 42 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 and nine months ended September 30, 2018 and 2017.

Table

42 **Allowance for Credit Losses**

	т	hree Months En	ded Sept	Nine Mont	Nine Months Ended September 30				
(Dollars in millions)		2018		2017	2018	2018			
Allowance for loan and lease losses, beginning of period	\$	10,050	\$	10,875	\$ 10,	393	\$	11,237	
Loans and leases charged off									
Residential mortgage		(45)		(51)	(137)		(157)	
Home equity		(110)		(180)	(329)		(476)	
U.S. credit card		(826)		(727)	(2,	515)		(2,198)	
Non-U.S. credit card (1)		_		_		_		(103)	
Direct/Indirect consumer		(120)		(136)	(376)		(358	
Other consumer		(46)		(56)	(140)		(160)	
Total consumer charge-offs		(1,147)		(1,150)	(3,	497)		(3,452)	
U.S. commercial (2)		(161)		(171)	(-	437)		(449)	
Non-U.S. commercial		(25)		(34)		(61)		(100	
Commercial real estate		(2)		(4)		(9)		(12	
Commercial lease financing		(1)		(3)		(6)		(9	
Total commercial charge-offs		(189)		(212)	(513)		(570	
Total loans and leases charged off		(1,336)		(1,362)	(4,	010)		(4,022	
Recoveries of loans and leases previously charged off									
Residential mortgage		33		133	:	124		241	
Home equity		130		97	:	316		279	
U.S. credit card		128		115	:	377		340	
Non-U.S. credit card (1)		_		_		_		28	
Direct/Indirect consumer		78		68	:	234		209	
Other consumer		2		6		10		46	
Total consumer recoveries		371		419	1,	061		1,143	
U.S. commercial (3)		32		36		85		113	
Non-U.S. commercial		_		1		13		6	
Commercial real estate		_		2		6		9	
Commercial lease financing		1		4		6		9	
Total commercial recoveries		33		43	:	110		137	
Total recoveries of loans and leases previously charged off		404		462	1,:	171		1,280	
Net charge-offs		(932)		(900)	(2,	839)		(2,742	
Write-offs of PCI loans		(95)		(73)	(:	166)		(161	
Provision for loan and lease losses		711		829	2,	362		2,395	
Other (4)		_		(38)		(16)		(36	
Allowance for loan and lease losses, September 30		9,734		10,693		734		10,693	
Reserve for unfunded lending commitments, beginning of period		787		757		777		762	
Provision for unfunded lending commitments		5		5		15		_	
		792		762		792		762	
Reserve for unfunded lending commitments, September 30		40 =00		44.455	•				
Allowance for credit losses, September 30 (4) Represents net charge-offs related to the non-U.S. credit card loan portfolio, which was sold in the second quarter of 2017.	\$	10,526	\$	11,455	\$ 10,	526	\$	11,455	

⁽¹⁾ Represents net charge-offs related to the non-U.S. credit card loan portfolio, which was sold in the second quarter of 2017.
(2) Includes U.S. small business commercial charge-offs of \$72 million and \$215 million for the three and rine months ended September 30, 2018 compared to \$65 million and \$193 million for the same periods in 2017.
(3) Includes U.S. small business commercial recoveries of \$131 million and \$35 million for the three and rine months ended September 30, 2018 compared to \$10 million and \$33 million for the same periods in 2017.
(4) Primarily represents the net impact of portfolio sales, consolidations and deconsolidations, foreign currency translation adjustments, transfers to held for sale and certain other reclassifications.

Table 42

Allowance for Credit Losses (continued)

	Three Months End	led Se	ptember 30	Nine Months End	led Se	eptember 30
(Dollars in millions)	2018		2017	2018		2017
Loan and allowance ratios:						
Loans and leases outstanding at September 30 (5)	\$ 924,070	\$	920,832	\$ 924,070	\$	920,832
Allowance for loan and lease losses as a percentage of total loans and leases outstanding at September 30 (5)	1.05%		1.16%	1.05%		1.16%
Consumer allowance for loan and lease losses as a percentage of total consumer loans and leases outstanding at September 30 (6)	1.12		1.25	1.12		1.25
Commercial allowance for loan and lease losses as a percentage of total commercial loans and leases outstanding at September 30(7)	0.99		1.08	0.99		108
Average loans and leases outstanding (5)	\$ 925,091	\$	911,945	\$ 926,664	\$	908,670
Annualized net charge-offs as a percentage of average loans and leases outstanding (5, 8)	0.40%		0.39%	0.41%		0.40%
Annualized net charge-offs and PCI write-offs as a percentage of average loans and leases outstanding (5)	0.44		0.42	0.43		0.43
Allowance for loan and lease losses as a percentage of total nonperforming loans and leases at September 30 (5)	189		163	189		163
Ratio of the allowance for loan and lease losses at September 30 to annualized net charge-offs (8)	2.63		3.00	2.56		2.92
Ratio of the allowance for loan and lease losses at September 30 to annualized net charge-offs and PCI write-offs	2.39		2.77	2.42		2.76
Amounts included in allowance for loan and lease losses for loans and leases that are excluded from nonperforming loans and leases at September 30 (9)	\$ 4,027	\$	3,880	\$ 4,027	\$	3,880
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 September 30 (5, 9)	111%		104%	111%		104%

For reporting purposes, we allocate the allowance for credit losses across products as presented in Table 43.

Table 43 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)		September 30, 201	8		December 31, 2017	
Allowance for loan and lease losses						_
Residential mortgage	\$ 500	5.14%	0.24%	\$ 701	6.74%	0.34%
Home equity	658	6.76	1.28	1,019	9.80	1.76
U.S. credit card	3,530	36.26	3.72	3,368	32.41	3.50
Direct/Indirect consumer	262	2.69	0.29	264	2.54	0.27
Other consumer	30	0.31	n/m	31	0.30	n/m
Total consumer	4,980	51.16	1.12	5,383	51.79	1.18
U.S. commercial (2)	2,974	30.55	0.99	3,113	29.95	1.04
Non-U.S. commercial	687	7.06	0.72	803	7.73	0.82
Commercial real estate	946	9.72	1.56	935	9.00	1.60
Commercial lease financing	147	1.51	0.68	159	1.53	0.72
Total commercial	4,754	48.84	0.99	5,010	48.21	1.05
Allowance for loan and lease losses (3)	9,734	100.00%	1.05	10,393	100.00%	1.12
Reserve for unfunded lending commitments	792			777		
Allowance for credit losses	\$ 10,526			\$ 11,170		

Another the fair value option Corumer loans and lease losses as a percentage of loans and leases outstanding evoluting loans accounted for under the fair value option. Consumer loans accounted for under the fair value option included residential mortgage loans of \$407 million and \$507 million and show that the fair value option included us. Commercial loans of \$140 million and show that the fair value option included U.S. commercial loans of \$140 million and \$250 million and \$2

SO Outstanding loan and lease balances and ratios do not include loans accounted for under the fair value option of \$5.7 billion and \$6.3 billion at September 30, 2018 and 2017. Average loans accounted for under the fair value option were \$5.6 billion and \$5.8 billion for the same periods in 2017.

(6) Excludes consumer loans accounted for under the fair value option of \$755 million and \$978 million at September 30, 2018 and 2017.

(7) Excludes consumer loans accounted for under the fair value option of \$755 million and \$978 million at September 30, 2018 and 2017.

(8) Excludes consumer loans accounted for under the fair value option of \$5.0 billion and \$5.0 bi

Market Risk Management

For more information on our market risk management process, see Market Risk Management in the MD&A of the Corporation's 2017 Annual Report on Form 10-K.

Trading Risk Management

To evaluate risk arising from trading activities, the Corporation focuses 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 2017 Annual Report on Form 10-K.

Table 44 presents the total market-based trading portfolio VaR which is the combination of the covered positions trading portfolio and the impact from less liquid trading exposures. For more information on the market risk VaR for trading activities, see Trading Risk Management in the MD&A of the Corporation's 2017 Annual Report on Form 10-K.

The total market-based portfolio VaR results in Table 44 include market risk, excluding credit valuation adjustment (CVA), DVA and related hedges, to which we are exposed from all business segments. The majority of this portfolio is within the Global Markets segment. Table 44 presents periodend, average, high and low daily trading VaR for the three months ended September 30, 2018, June 30, 2018 and September 30, 2017, as well as average daily trading VaR for the nine months ended September 30, 2018 and 2017, using a 99 percent confidence level. The amounts disclosed in Table 44 and Table 45 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 approval.

The average total covered positions and less liquid trading positions portfolio VaR decreased for the three months ended September 30, 2018 compared to the same period in 2017 primarily due to an increase in portfolio diversification.

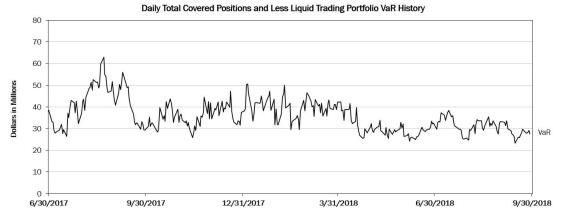
Table

Market Risk VaR for Trading Activities

										Thre	e Mont	ths En	ded											 	
			Septemb	er 30, 2	018						June 3	0, 201	3					S	ieptemb	er 30,	2017			ne Mon Septen	
(Dollars in millions)	Perio End		Average	High	(1)	Lo	W ⁽¹⁾	Per	riod End	Ave	erage	H	gh ⁽¹⁾	Lo	w ⁽¹⁾	Peri	od End	Av	erage	ı	ligh (1)	Lo	OW ⁽¹⁾	018 erage	2017 verage
Foreign exchange	\$	3 9	7	\$	12	\$	2	\$	8	\$	10	\$	15	\$	7	\$	6	\$	10	\$	15	\$	5	\$ 8	\$ 12
Interestrate	2	2	26		36		16		27		23		32		15		15		21		41		14	24	20
Credit	2	4	24		30		20		30		25		30		20		24		25		29		23	25	25
Equity	1	7	18		27		13		24		16		26		11		17		17		33		12	18	18
Commodities		7	6		8		5		7		9		14		4		4		5		7		4	7	5
Portfolio diversification	(4	7)	(52)	_	_		_		(65)		(55)		_		-		(40)		(44)		-		-	(52)	(45)
Total covered positions portfolio	2	6	29		36		21		31		28		38		20		26		34		51		24	30	35
Impact from less liquid exposures	:	2	2	_	_		_		2		2		_		_		3		7		_		_	4	6
Total covered positions and less liquid trading positions portfolio	2	3	31		38		23		33		30		42		24		29		41		63		26	34	41
Fair value option loans	1)	13	•	15		10		12		13		18		8		10		10		12		9	12	11
Fair value option hedges		6	9		11		6		8		11		17		5		8		8		9		6	9	6
Fair value option portfolio diversification	(3)	(13)	_	_		_		(12)		(13)		_		_		(11)		(9)		_		_	(11)	(8)
Total fair value option portfolio		3	9		11		8		8		11		16		5		7		9		10		7	10	9
Portfolio diversification	(6)	(6)	-	_		_		(5)		(7)		_		_		(4)		(3)		_		_	(6)	(4)
Total market-based portfolio	\$ 3		34		44		26	\$	36	\$	34		47		28	\$	32	\$	47		69		29	\$ 38	\$ 46

(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 44.



Additional VaR statistics produced within our single VaR model are provided in Table 45 at the same level of detail as in Table 44. 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 45 presents average trading VaR statistics at 99 percent and 95 percent confidence levels for the three months ended September 30, 2018, June 30, 2018 and September 30, 2017.

Table 45

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

					Three Mont	ths Ended			
		Septembe	er 30,	, 2018	June 3	0, 2018	Septer	mber 30, 2	017
(Dollars in millions)	99	percent		95 percent	99 percent	95 percent	99 percent		95 percent
Foreign exchange	\$	7	\$	4	\$ 10	\$ 6	\$ 10	\$	6
Interest rate		26		16	23	14	21		14
Credit		24		14	25	15	25		15
Equity		18		10	16	9	17		9
Commodities		6		3	9	5	5		3
Portfolio diversification		(52)		(31)	(55)	(34)	(44))	(30)
Total covered positions portfolio		29		16	28	15	34		17
Impact from less liquid exposures		2		1	2	2	7		2
Total covered positions and less liquid trading positions portfolio		31		17	30	17	41		19
Fair value option loans		13		7	13	7	10		6
Fair value option hedges		9		6	11	8	8		6
Fair value option portfolio diversification		(13)		(8)	(13)	(10)	(9)	(7)
Total fair value option portfolio		9		5	11	5	9		5
Portfolio diversification		(6)		(4)	(7)	(3)	(3)	(3)
Total market-based portfolio	\$	34	\$	18	\$ 34	\$ 19	\$ 47	\$	21

Backtesting

The accuracy of the VaR methodology is evaluated by backtesting, which compares the daily VaR results, utilizing a one-day holding period, against a comparable subset of trading revenue. A backtesting excess occurs when a trading loss exceeds the VaR for the corresponding day. These excesses are evaluated to understand the positions and market moves that produced the trading loss and to ensure that the VaR methodology accurately

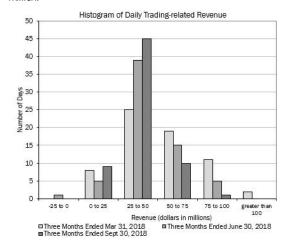
represents those losses. For more information on our backtesting process, see Trading Risk Management - Backtesting in the MD&A of the Corporation's 2017 Annual Report on Form 1Ö-K.

During the three and nine months ended September 30, 2018, there were no days in which there was a backtesting excess for our total market-based 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 2017 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 September 30, 2018 compared to the three months ended June 30, 2018 and March 31, 2018. During the three months ended September 30, 2018, positive trading-related revenue was recorded for 100 percent of the trading days, of which 86 percent were daily trading gains of over \$25 million. This compares to the three months ended June 30, 2018 where positive trading-related revenue was recorded for 98 percent of the trading days, of which 91 percent were daily trading gains of over \$25 million. During the three months ended March 31, 2018, positive trading-related revenue was recorded for 100 percent of the trading days of which 88 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 2017 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 46 presents the spot and 12-month forward rates used in our baseline forecasts at September 30, 2018 and December 31, 2017.

Table 46 Forward Rates

September 30, 2018 Federal 10-Year Funds LIROR Spot rates 2.25% 2.40% 3.12% 12-month forward rates 3.00 3.07 3.16 December 31, 2017 Spot rates 1.50% 1.69% 2.40% 12-month forward rates 2.00 2.14 2.48

Table 47 shows the pretax impact to forecasted net interest income over the next 12 months from September 30, 2018 and December 31, 2017, 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 nine months ended September 30, 2018, the asset sensitivity of our balance sheet to rising rates has declined modestly primarily due to increases in long-end 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 22.

Table 47 Estimated Banking Book Net Interest Income Sensitivity to Curve Changes

(Dollars in millions)	Short Rate (bps)	Long Rate (bps)	September 30 2018	Dec	ember 31 2017
Parallel Shifts					
+100 bps instantaneous shift	+100	+100	\$ 2,927	\$	3,317
-100 bps instantaneous shift	-100	-100	(4,256)		(5,183)
Flatteners					
Short-end instantaneous change	+100	_	2,316		2,182
Longend instantaneous change	_	-100	(1,421)		(2,765)
Steepeners					
Short-end instantaneous change	-100	_	(2,798)		(2,394)
Longend instantaneous change	_	+100	628		1,135

The sensitivity analysis in Table 47 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 47 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 2017 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 \$1.7 billion and \$1.3 billion. on a pretax basis, at September 30, 2018 and December 31, 2017. 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 September 30, 2018, the pretax net losses are expected to be reclassified into earnings as follows: 21 percent within the next year, 63 percent in years two through five and nine percent in years six through 10, with the remaining seven 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 September 30, 2018.

Table 48 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 September 30, 2018 and December 31, 2017. These amounts do not include derivative hedges on our MSRs.

Table 48 Asset and Liability Management Interest Rate and Foreign Exchange Contracts

						Sept	temi	ber 30, 201	8					
						Exp	ect	ed Maturity						
(Dollars in millions, average estimated duration in years)	 Fair Value		Total	Re	emainder of 2018	2019		2020		2021	2022	1	hereafter	Average Estimated Duration
Receive-fixed interest rate swaps (1)	\$ (4,571)													4.85
Notional amount		\$	254,129	\$	4,879	\$ 27,176	\$	26,229	\$	21,581	\$ 30,365	\$	143,899	
Weighted-average fixed-rate			2.51%		2.57%	1.87%		2.28%		2.85%	2.40%		2.65%	
Pay-fixed interest rate swaps (1)	1,842													4.62
Notional amount		\$	111,131	\$	11,247	\$ 1,210	\$	14,226	\$	8,949	\$ 11,245	\$	64,254	
Weighted-average fixed-rate			2.60%		1.70%	2.07%		2.70%		2.80%	2.91%		2.66%	
Same-currency basis swaps (2)	10													
Notional amount		\$	162,172	\$	1,085	\$ 13,755	\$	34,628	\$	26,227	\$ 22,849	\$	63,628	
Foreign exchange basis swaps (1, 3, 4)	(1,572)													
Notional amount			110,129		7,290	13,326		21,156		17,395	10,377		40,585	
Option products	_													
Notional amount			16		_	_		_		-	_		16	
Foreign exchange contracts (1, 4, 5)	339													
Notional amount (6)		_	(4,571)		(24,033)	(326)		3		4,273	2,826		12,686	
Net ALM contracts	\$ (3,952)													

					De	ecemb	oer 31, 2017					
					E	xpecte	ed Maturity					
(Dollars in millions, average estimated duration in years)	 Fair Value	-	Total	2018	2019		2020	2021	2022	٦	hereafter	Average Estimated Duration
Receive-fixed interest rate swaps (1)	\$ 2,330											5.38
Notional amount		\$	176,390	\$ 21,850	\$ 27,176	\$	16,347	\$ 6,498	\$ 19,120	\$	85,399	
Weighted-average fixed-rate			2.42%	3.20%	1.87%		1.88%	2.99%	2.10%		2.52%	
Pay-fixed interest rate swaps (1)	(37)											5.63
Notional amount		\$	45,873	\$ 11,555	\$ 1,210	\$	4,344	\$ 1,616	\$ _	\$	27,148	
Weighted-average fixed-rate			2.15%	1.73%	2.07%		2.16%	2.22%	-%		2.32%	
Same-currency basis swaps (2)	(17)											
Notional amount		\$	38,622	\$ 11,028	\$ 6,789	\$	1,180	\$ 2,807	\$ 955	\$	15,863	
Foreign exchange basis swaps (1, 3, 4)	(1,616)											
Notional amount			107,263	24,886	11,922		13,367	9,301	6,860		40,927	
Option products	13											
Notional amount			1,218	1,201	_		_	_	_		17	
Foreign exchange contracts (1, 4, 5)	1,424											
Notional amount (6)			(11,783)	(28,689)	2,231		(24)	2,471	2,919		9,309	
Net ALM contracts	\$ 2,097											

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 securities.

Net ALIM contracts \$ 2,007

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 derivatives.

2 At September 30, 2018 and December 31, 2017, the notional amount of same-currency basis swaps included \$162.2 billion and \$38.6 billion in both foreign currency and U.S. dollar-denominated basis swaps in which both sides of the swap are in the same currency.

3 Foreign exchange basis swaps consisted of cross-currency variable interest rate swaps.

4 Does not include foreign currency translation adjustments on certain mont. U.S. dot is swap and by the Corporation with receiver fixed interest rate swaps.

4 Does not include foreign currency denominated and justments on certain mont. U.S. dot is swap and by the Corporation of list substantially offset the fair values of these derivatives.

5 The notional amount of foreign exchange contracts of \$(4.6) billion at September 30, 2018 was comprised of \$34.1 billion in foreign currency-denominated and cross-currency receive fixed swaps, \$(33.5) billion in net foreign currency forward rate contracts, \$(6.0) billion in foreign currency-denominated pay-fixed swaps and \$321 million in net foreign currency-denominated pay-fixed swaps, \$(35.6) billion in foreign currency-denominated pay-fixed swaps, \$(35.6) billion in

For the three and nine months ended September 30, 2018, we recorded gains of \$61 million and \$190 million related to the change in fair value of the MSRs, IRLOs and LHFS, net of gains and losses on the hedge portfolio, compared to gains of \$34 million and \$100 million for the same periods in 2017. For more information on MSRs, see Note 14 – Fair Value Measurements to the Consolidated Financial Statements.

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 2017 Annual Report on Form 10-K and Note 1 – Summary of Significant Accounting Principles to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-K.

Non-GAAP Reconciliations

Tables 49 and 50 provide reconciliations of certain non-GAAP financial measures to GAAP financial measures.

Table 49 Quarterly Supplemental Financial Data and Reconciliations to GAAP Financial Measures

				Thre	e Months En	ded S	September 30		
			2018					2017	
(Dallars in millions)	As	Reported	Fully taxable- equivalent adjustment		ly taxable- valent basis		As Reported	ılly taxable- lent adjustment	lly taxable- valent basis
Net interest income	\$	11,870	\$ 151	\$	12,021	\$	11,161	\$ 240	\$ 11,401
Total revenue, net of interest expense		22,777	151		22,928		21,839	240	22,079
Income tax expense		1,827	151		1,978		2,187	240	2,427
				Nin	e Months End	led S	eptember 30		
			2018					2017	
Net interest income	\$	35,128	\$ 455	\$	35,583	\$	33,205	\$ 674	\$ 33,879
Total revenue, net of interest expense		68,511	455		68,966		66,916	674	67,590
Income tax expense		5,017	455		5,472		7,185	674	7,859

Table 50 Period-end and Average Supplemental Financial Data and Reconciliations to GAAP Financial Measures

		Peri	od-en	d				Ave	erage			
	-	ptember 30		December 31	•	Three Months En	ded S	eptember 30		Nine Months En	ded Se	ptember 30
(Dollars in millions)		2018		2017		2018		2017		2018		2017
Common shareholders' equity	\$	239,832	\$	244,823	\$	241,812	\$	249,214	\$	241,943	\$	245,841
Goodwill		(68,951)		(68,951)		(68,951)		(68,969)		(68,951)		(69,398)
Intangible assets (excluding MSRs)		(1,908)		(2,312)		(1,992)		(2,549)		(2,125)		(2,737)
Related deferred tax liabilities		878		943		896		1,465		917		1,503
Tangible common shareholders' equity	\$	169,851	\$	174,503	\$	171,765	\$	179,161	\$	171,784	\$	175,209
Shareholders' equity	\$	262,158	\$	267,146	\$	264,653	\$	273,238	\$	265,102	\$	270,658
Goodwill		(68,951)		(68,951)		(68,951)		(68,969)		(68,951)		(69,398)
Intangible assets (excluding MSRs)		(1,908)		(2,312)		(1,992)		(2,549)		(2,125)		(2,737)
Related deferred tax liabilities		878		943		896		1,465		917		1,503
Tangible shareholders' equity	\$	192,177	\$	196,826	\$	194,606	\$	203,185	\$	194,943	\$	200,026
Total assets	\$	2,338,833	\$	2,281,234								
Goodwill		(68,951)		(68,951)								
Intangible assets (excluding MSRs)		(1,908)		(2,312)								
Related deferred tax liabilities		878		943								
Tangible assets	\$	2,268,852	\$	2,210,914								

<u>Item 3. Quantitative and Qualitative Disclosures about Market Risk</u>

See Market Risk Management on page 47 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.

Changes in Internal Control Over Financial Reporting

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 three months ended September 30, 2018, that have materially affected, or are reasonably likely to materially affect, the Corporation's internal control over financial reporting.

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Consolidated Statement of Income

	т	hree Months En	ded Se _l	otember 30	 Nine Months En	ded Se	ptember 30
(In millions, except per share information)		2018		2017	2018		2017
Interest income							
Loans and leases	\$	10,401	\$	9,203	\$ 30,095	\$	26,877
Debt securities		2,986		2,629	8,646		7,764
Federal funds sold and securities borrowed or purchased under agreements to resell		799		659	2,130		1,658
Trading account assets		1,172		1,091	3,506		3,330
Other interest income		1,607		1,075	4,556		2,884
Total interest income		16,965		14,657	48,933		42,513
Interest expense							
Deposits		1,230		624	2,933		1,252
Short-term borrowings		1,526		944	4,123		2,508
Tradingaccount liabilities		335		319	1,040		890
Longtermdebt		2,004		1,609	5,709		4,658
Total interest expense		5,095		3,496	13,805		9,308
Net interest income		11,870		11,161	35,128		33,205
Noninterest income							
Card income		1,470		1,429	4,469		4,347
Service charges		1,961		1,968	5,836		5,863
Investment and brokerage services		3,494		3,437	10,616		10,314
Investment banking income		1,204		1,477	3,979		4,593
Tradingaccount profits		1,893		1,837	6,907		6,124
Other income		885		530	1,576		2,470
Total noninterest income		10,907		10,678	33,383		33,711
Total revenue, net of interest expense		22,777		21,839	68,511		66,916
Provision for credit losses		716		834	2,377		2,395
Noninterest expense							
Personnel		7,721		7,811	24,145		24,326
Occupancy		1,015		999	3,051		3,000
Equipment		421		416	1,278		1,281
Marketing		421		461	1,161		1,235
Professional fees		439		476	1,219		1,417
Data processing		791		777	2,398		2,344
Telecommunications		173		170	522		538
Other general operating		2,086		2,284	6,474		7,328
Total noninterest expense		13,067		13,394	40,248		41,469
Income before income taxes		8,994		7,611	25,886		23,052
Income tax expense		1,827		2,187	5,017		7,185
Net income	\$	7,167	\$	5,424	\$ 20,869	\$	15,867
Preferred stock dividends		466		465	1,212		1,328
Net income applicable to common shareholders	\$	6,701	\$	4,959	\$ 19,657	\$	14,539
Per common share information							
Earnings	\$	0.67	\$	0.49	\$ 1.93	\$	1.44
Diluted earnings		0.66		0.46	1.91		1.36
Dividends paid		0.15		0.12	0.39		0.27
Average common shares issued and outstanding		10,031.6		10,197.9	10,177.5		10,103.4
Average diluted common shares issued and outstanding		10,170.8		10,746.7	 10,317.9		10,832.1

See accompanying Notes to Consolidated Financial Statements.

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Consolidated Statement of Comprehensive Income

	 Three Months En	ded Se	ptember 30	 Nine Months End	ded Se _l	otember 30
(Dollars in millions)	 2018		2017	2018		2017
Net income	\$ 7,167	\$	5,424	\$ 20,869	\$	15,867
Other comprehensive income (loss), net-of-tax:						
Net change in debt and equity securities	(1,172)		462	(6,166)		931
Net change in debit valuation adjustments	(269)		(80)	183		(149)
Net change in derivatives	21		24	(346)		156
Employee benefit plan adjustments	31		26	91		80
Net change in foreign currency translation adjustments	(114)		5	(303)		102
Other comprehensive income (loss)	(1,503)		437	(6,541)		1,120
Comprehensive income	\$ 5,664	\$	5,861	\$ 14,328	\$	16,987

Consolidated Balance Sheet

(Dollars in millions)	Se	eptember 30 2018	December 31 2017
Assets			
Cash and due from banks	\$	27,440	\$ 29,480
Interest-bearing deposits with the Federal Reserve, non-U.S. central banks and other banks		157,418	127,954
Cash and cash equivalents		184,858	157,434
Time deposits placed and other short-term investments		7,865	11,153
Federal funds sold and securities borrowed or purchased under agreements to resell (includes \$52,524 and \$52,906 measured at fair value)		248,237	212,747
Trading account assets (includes \$110,199 and \$106,274 pledged as collateral)		219,118	209,358
Derivative assets		45,617	37,762
Debt securities:			
Carried at fair value		251,635	315,117
Held-to-maturity, at cost (fair value - \$187,988 and \$123,299)		194,472	125,013
Total debt securities		446,107	440,130
Loans and leases (includes \$5,731 and \$5,710 measured at fair value)		929,801	936,749
Allowance for loan and lease losses		(9,734)	(10,393)
Loans and leases, net of allowance		920,067	926,356
Premises and equipment, net		9,680	9,247
Goodwill		68,951	68,951
Loans held-for-sale (includes \$3,116 and \$2,156 measured at fair value)		5,576	11,430
Customer and other receivables		56,962	61,623
Other assets (includes \$23,738 and \$22,581 measured at fair value)		125,795	135,043
Total assets	\$	2,338,833	\$ 2,281,234
Assets of consolidated variable interest entities included in total assets above (isolated to settle the liabilities of the variable interest entities)			
Trading account assets	\$	6,145	\$ 6,521
Loans and leases		44,163	48,929
Allowance for loan and lease losses		(920)	(1,016)
Loans and leases, net of allowance		43,243	47,913
All other assets		357	1,721
Total assets of consolidated variable interest entities	\$	49,745	\$ 56,155

Consolidated Balance Sheet (continued)

(Dalars in millions)	Se	eptember 30 2018	December 31 2017
Liabilities			
Deposits in U.S. offices:			
Noninterest-bearing	\$	414,853	\$ 430,650
Interest-bearing (includes \$529 and \$449 measured at fair value)		844,204	796,576
Deposits in non-U.S. offices:			
Noninterest-bearing		12,896	14,024
Interest-bearing		73,696	68,295
Total deposits		1,345,649	1,309,545
Federal funds purchased and securities loaned or sold under agreements to repurchase (includes \$34,242 and \$36,182 measured at fair value)		171,600	176,865
Trading account liabilities		89,964	81,187
Derivative liabilities		36,189	34,300
Short-term borrowings (includes \$1,789 and \$1,494 measured at fair value)		29,035	32,666
Accrued expenses and other liabilities (includes \$24,516 and \$22,840 measured at fair value and \$792 and \$777 of reserve for unfunded lending commitments)		170,138	152,123
Longterm debt (includes \$28,677 and \$31,786 measured at fair value)		234,100	227,402
Total liabilities		2,076,675	2,014,088
Commitments and contingencies (Note 7 – Securitizations and Other Variable Interest Entities and Note 10 – Commitments and Contingencies)			
Shareholders' equity			
Preferred stock, \$0.01 par value; authorized -100,000,000 shares; issued and outstanding -3,843,140 and 3,837,683 shares		22,326	22,323
Common stock and additional paid-in capital, \$0.01 par value; authorized - 12,800,000,000 shares; issued and outstanding - 9,858,252,641 and 10,287,302,431 shares		123,921	138,089
Retained earnings		130,747	113,816
Accumulated other comprehensive income (loss)		(14,836)	(7,082)
Total shareholders' equity		262,158	267,146
Total liabilities and shareholders' equity	\$	2,338,833	\$ 2,281,234
Liabilities of consolidated variable interest entities included in total liabilities above			
Short-termborrowings	\$	905	\$ 312
Longterm debt (includes \$11,024 and \$9,872 of non-recourse debt)		11,024	9,873
All other liabilities (includes \$37 and \$34 of non-recourse liabilities)		39	37
Total liabilities of consolidated variable interest entities	\$	11,968	\$ 10,222

Consolidated Statement of Changes in Shareholders' Equity

		Preferred -	Common Additional P			i	Retained		cumulated Other nprehensive	Total Shareholders'		
(In millions)		Stock	Shares	Amount		Earnings		come (Loss)	•	Equity		
Balance, December 31, 2016	\$	25,220	10,052.6	\$	147,038	\$	101,225	\$	(7,288)	\$	266,195	
Net income							15,867				15,867	
Net change in debt and equity securities									931		931	
Net change in debit valuation adjustments									(149)		(149)	
Net change in derivatives									156		156	
Employee benefit plan adjustments									80		80	
Net change in foreign currency translation adjustments									102		102	
Dividends declared:												
Common							(2,768)				(2,768)	
Preferred							(1,292)				(1,292)	
Common stock issued in connection with exercise of warrants and exchange of preferred stock		(2,897)	700.0		2,933		(36)				_	
Common stock issued under employee plans, net and other			39.5		792						792	
Common stock repurchased			(334.6)		(7,945)						(7,945)	
Balance, September 30, 2017	\$	22,323	10,457.5	\$	142,818	\$	112,996	\$	(6,168)	\$	271,969	
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	•	,	_0,_0	•		•	(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							20,869				20,869	
Net change in debt and equity securities									(6,166)		(6,166)	
Net change in debit valuation adjustments									183		183	
Net change in derivatives									(346)		(346)	
Employee benefit plan adjustments									91		91	
Net change in foreign currency translation adjustments									(303)		(303)	
Dividends declared:												
Common							(3,952)				(3,952)	
Preferred							(1,212)				(1,212)	
Issuance of preferred stock		4,515									4,515	
Redemption of preferred stock		(4,512)									(4,512)	
Common stock issued under employee plans, net and other			52.8		695		(12)				683	
Common stock repurchased			(481.8)		(14,863)						(14,863)	

Consolidated Statement of Cash Flows

	Nine Months Ended S	Nine Months Ended September 30							
(Dollars in millions)	2018	2017							
Operating activities									
Net income	\$ 20,869 \$	15,867							
Adjustments to reconcile net income to net cash provided by operating activities:									
Provision for credit losses	2,377	2,395							
Gains on sales of debt securities	(76)	(278)							
Depreciation and premises improvements amortization	1,135	1,115							
Amortization of intangibles	404	473							
Net amortization of premium/discount on debt securities	1,411	1,647							
Deferred income taxes	2,845	5,131							
Stock-based compensation	1,323	1,222							
Loans held-for-sale:									
Originations and purchases	(16,830)	(31,404)							
Proceeds from sales and paydowns of loans originally classified as held for sale and instruments									
from related securitization activities	23,221	27,484							
Net change in:									
Trading and derivative instruments	(13,347)	(12,553)							
Other assets	13,648	(9,993)							
Accrued expenses and other liabilities	18,266	11,201							
Other operating activities, net	(1,804)	4,657							
Net cash provided by operating activities	53,442	16,964							
Investing activities									
Net change in:									
Time deposits placed and other short-term investments	3,288	368							
Federal funds sold and securities borrowed or purchased under agreements to resell	(35,490)	(18,990)							
Debt securities carried at fair value:									
Proceeds from sales	3,070	64,597							
Proceeds from paydowns and maturities	56,458	71,628							
Purchases	(54,923)	(134,915)							
Held-to-maturity debt securities:									
Proceeds from paydowns and maturities	13,566	12,194							
Purchases	(35,215)	(17,850)							
Loans and leases:									
Proceeds from sales of loans originally classified as held for investment and instruments from related securitization activities	13,600	8,874							
Purchases	(3,323)	(4,511)							
Other changes in loans and leases, net	(6,432)	(29,654)							
Other investing activities, net	(1,750)	8,635							
Net cash used in investing activities	(47,151)	(39,624)							
	(41,101)	(39,024)							
Financing activities									
Net change in:	20.404	00.400							
Deposits	36,104	23,483							
Federal funds purchased and securities loaned or sold under agreements to repurchase	(5,313)	19,987							
Short-termborrowings	(3,631)	8,583							
Longtermdebt:									
Proceeds from issuance	60,873	50,702							
Retirement	(44,817)	(44,652)							
Preferred stock:									
Proceeds from issuance	4,515	_							
Redemption	(4,512)	_							
Common stock repurchased	(14,863)	(7,945)							
Cash dividends paid	(5,150)	(4,124)							
Other financing activities, net	(644)	(609)							
Net cash provided by financing activities	22,562	45,425							
Effect of exchange rate changes on cash and cash equivalents	(1,429)	1,878							

Cash and cash equivalents at September 30	\$ 184,858	\$ 172,381
Cash and cash equivalents at January 1	157,434	147,738
Net increase in cash and cash equivalents	27,424	24,643

See accompanying Notes to Consolidated Financial Statements.

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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 (MEs) 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 (GAAP) 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 2017 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.

Change in Tax Law

On December 22, 2017, the President signed into law the Tax Cuts and Jobs Act (the Tax Act) which made significant changes to federal income tax law including, among other things, reducing the statutory corporate income tax rate to 21 percent from 35 percent and changing the taxation of the Corporation's non-U.S. business activities. On the same date, the SEC issued Staff Accounting Bulletin No. 118 which specifies, among other things, that reasonable estimates of the income tax effects of the Tax Act should be used, if determinable. The Corporation has accounted for the effects of the Tax Act using reasonable estimates based on currently available information and its interpretations thereof. This accounting may change due to, among other things, changes

in interpretations the Corporation has made and the issuance of new tax or accounting guidance.

Accounting Standards Adopted on January 1, 2018

Effective January 1, 2018, the Corporation adopted the following new accounting standards on a prospective basis. For additional information, see Note 1 - Summary of Significant Accounting Principles to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-K.

- **Revenue Recognition** The new accounting standard addresses the recognition of revenue from contracts with customers. For additional information, see Revenue Recognition Accounting Policies in this Note, Note 2 – Noninterest Income and Note 17 - Business Segment Information.
- Hedge Accounting The new accounting standard simplifies and expands the ability to apply hedge accounting to certain risk management activities. For additional information, see Note 3 - Derivatives.
- Recognition and Measurement of Financial Assets and Liabilities The new accounting standard relates to the recognition and measurement of financial instruments, including equity investments. For additional information, see Note 4 Securities and Note 16 - Fair Value of Financial Instruments.
- Tax Effects in Accumulated Other Comprehensive Income The new accounting standard addresses certain tax effects stranded in accumulated other comprehensive income (OCI) related to the Tax Act. For additional information, see Note 12 - Accumulated Other Comprehensive Income (Loss).

Effective January 1, 2018, the Corporation adopted the following new accounting standards on a retrospective basis, resulting in restatement of all prior periods presented in the Consolidated Statement of Income and the Consolidated Statement of Cash Flows. The changes in presentation are not material to the individual line items affected.

- Presentation of Pension Costs The new accounting standard requires separate presentation of the service cost component of pension expense from all other components of net pension benefit/cost in the Consolidated Statement of Income. As a result, the service cost component continues to be presented in personnel expense while other components of net pension benefit/cost (e.g., interest cost, actual return on plan assets, amortization of prior service cost) are now presented in other general operating expense.
- Classification of Cash Flows and Restricted Cash The new accounting standards address the classification of certain cash receipts and cash payments in the statement of cash flows as well as the presentation and disclosure of restricted cash. For more information on restricted cash, see Note 9 - Federal Funds Sold or Purchased, Securities Financing Agreements, Short-term Borrowings and Restricted Cash.

Accounting Standards Issued and Not Yet Adopted

Lease Accounting

The Financial Accounting Standards Board (FASB) issued a new accounting standard effective on January 1, 2019 that requires lessess to recognize operating lesses 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 will be required. The Corporation intends to elect the optional transition method, which

allows for the recognition of leases at the beginning of the period of adoption through a cumulative effect adjustment in retained earnings, with no adjustment to comparative prior periods presented. The effect of the adoption will depend on the lease portfolio at the time of transition; however, based on current estimates, the Corporation expects to recognize right-of-use assets and lease liabilities within a range of approximately \$9 billion to \$11 billion. Adoption of the standard is not expected to have a significant effect on the Corporation's regulatory capital measures.

Accounting for Financial Instruments – Credit LossesThe FASB issued a new accounting standard effective on January 1, 2020, with early adoption permitted on January 1, 2019, that will replace the existing measurement of the allowance for credit losses with management's best estimate of probable credit losses inherent in the Corporation's lending activities. The new standard will reflect management's best estimate of all expected credit losses for substantially all of the Corporation's financial assets that are recognized at amortized cost. The standard also requires expanded credit quality disclosures. The Corporation is in the process of identifying and implementing required changes to credit loss estimation models and processes and evaluating the impact of this new accounting standard, which at the date of adoption is expected to increase the allowance for credit losses with a resulting negative adjustment to retained earnings. The change will be dependent on the characteristics of the Corporation's portfolio at adoption date as well as the macroeconomic conditions and forecast as of that date. While a final decision has not been made, the Corporation does not expect to early adopt the standard.

Significant Accounting Principles Update

Revenue Recognition

The following summarizes the Corporation's revenue recognition accounting policies for certain noninterest income activities.

Card Income

Card income includes annual, late and over-limit fees as well as fees earned from interchange, cash advances and other miscellaneous transactions and is presented net of direct costs. Interchange fees are recognized upon settlement of the credit and debit card payment transactions and are generally determined on a percentage basis for credit cards and fixed rates for debit cards based on the corresponding payment network's rates. Substantially all card fees are recognized at the transaction date, except for certain time-based fees such as annual fees, which are recognized over 12 months. Fees charged to cardholders that are estimated to be uncollectible are reserved in the allowance for loan and lease losses. Rewards paid to cardholders are related to points earned by the cardholder that can be redeemed for a broad range of rewards including cash, travel and gift cards. Based on past redemption behavior, card product type, account transaction activity and other historical card performance, the Corporation estimates a liability based on the amount of earned reward points that are expected to be redeemed. The Corporation also makes payments to credit card partners. The payments are based on revenue-sharing agreements that are generally driven by cardholder transactions and partner sales volumes.

Service Charges

Service charges include deposit and lending-related fees. Deposit-related fees consist of fees earned on consumer and commercial

deposit activities and are generally recognized when the transactions occur or as the service is performed. Consumer fees are earned on consumer deposit accounts for account maintenance and various transaction-based services, such as ATM transactions, wire transfer activities, check and money order processing and insufficient funds/overdraft transactions. Commercial deposit-related fees are from the Corporation's Global Transaction Services business and consist of commercial deposit and treasury management services, including account maintenance and other services, such as payroll, sweep account and other cash management services. Lending-related fees generally represent transactional fees earned from certain loan commitments, financial guarantees and standby letters of credit (SBLCs).

Investment and Brokerage Services

Investment and brokerage services consist of asset management and brokerage fees. Asset management fees are earned from the management of client assets under advisory agreements or the full discretion of the Corporation's financial advisors (collectively referred to as assets under management (AUM)). Asset management fees are earned as a percentage of the client's AUM and generally range from 50 basis points (bps) to 150 bps of the AUM. In cases where a third party is used to obtain a client's investment allocation, the fee remitted to the third party is recorded net and is not reflected in the transaction price, as the Corporation is an agent for those services.

Brokerage fees include income earned from transaction-based services that are performed as part of investment management services and are based on a fixed price per unit or as a percentage of the total transaction amount. Brokerage fees also include distribution fees and sales commissions that are primarily in the Global Wealth & Investment Management (GWIM) segment and are earned over time. In addition, primarily in the Global Markets segment, brokerage fees are earned when the . Corporation fills customer orders to buy or sell various financial products or when it acknowledges, affirms, settles and clears transactions and/or submits trade information to the appropriate clearing broker. Certain customers pay brokerage, clearing and/or exchange fees imposed by relevant regulatory bodies or exchanges in order to execute or clear trades. These fees are recorded net and are not reflected in the transaction price, as the Corporation is an agent for those services.

Investment Banking Income

Investment banking income includes underwriting income and financial advisory services income. Underwriting consists of fees earned for the placement of a customer's debt or equity securities. The revenue is generally earned based on a percentage of the fixed number of shares or principal placed. Once the number of shares or notes is determined and the service is completed, the underwriting fees are recognized. The Corporation incurs certain out-of-pocket expenses, such as legal costs, in performing these services. These expenses are recovered through the revenue the Corporation earns from the customer and are included in operating expenses. Syndication fees represent fees earned as the agent or lead lender responsible for structuring, arranging and administering a loan syndication.

Financial advisory services consist of fees earned for assisting customers with transactions related to mergers and acquisitions and financial restructurings. Revenue varies depending on the size

and number of services performed for each contract and is generally contingent on successful execution of the transaction. Revenue is typically recognized once the transaction is completed and all services have been rendered. Additionally, the Corporation may earn a fixed fee in merger and acquisition transactions to provide a fairness opinion, with the fees recognized when the opinion is delivered to the customer.

Other Revenue Measurement and Recognition Policies

The Corporation did not disclose the value of any open performance obligations at September 30, 2018, as its contracts with customers generally have a fixed term that is less than one year, an open term with a cancellation period that is less than one year, or provisions that allow the Corporation to recognize revenue at the amount it has the right to invoice.

NOTE 2 Noninterest Income

The table below presents the Corporation's noninterest income disaggregated by revenue source for the three and nine months ended September 30, 2018 and 2017. For more information, see Note 1 – Summary of Significant Accounting Principles. For a disaggregation of noninterest income by business segment and All Other, see Note 17 – Business Segment Information.

	Three	Months En	ded Sep	Nine Months Ended September 30						
(Dallars in millions)	20:	18		2017		2018		2017		
Card income										
Interchange fees (1)	\$	978	\$	941	\$	3,018	\$	2,883		
Other card income		492		488		1,451		1,464		
Total card income		1,470		1,429		4,469		4,347		
Service charges										
Deposit-related fees		1,682		1,691		5,009		5,040		
Lending related fees		279		277		827		823		
Total service charges		1,961		1,968		5,836		5,863		
Investment and brokerage services										
Asset management fees		2,576		2,367		7,652		6,855		
Brokerage fees		918		1,070		2,964		3,459		
Total investment and brokerage services		3,494		3,437		10,616		10,314		
Investment banking income										
Underwriting income		701		698		2,160		2,185		
Syndication fees		241		405		958		1,146		
Financial advisory services		262		374		861		1,262		
Total investment banking income		1,204		1,477		3,979		4,593		
Trading account profits		1,893		1,837		6,907		6,124		
Other income		885		530		1,576		2,470		
Total noninterest income	\$	10,907	\$	10,678	\$	33,383	\$	33,711		

⁽¹⁾ Gross interchange fees were \$2.4 billion and \$2.2 billion for the three months ended September 30, 2018 and 2017, and are presented net of \$1.4 billion and \$1.3 billion of expenses for rewards and partner payments. For the rine months ended September 30, 2018 and 2017, gross interchange fees were \$7.0 billion and \$6.5 billion and are presented net of \$4.0 billion and \$3.6 billion and \$3.6 billion and \$6.5 b

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 2017 Annual Report on Form 10-K. The following tables present derivative instruments included on the Consolidated Balance Sheet in derivative assets and liabilities at September 30, 2018 and December 31, 2017. 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.

			September 30, 2018												
				Gros	s Deriv	ative Asset	s			ies					
(Delega is billions)	Contract/ Notional (1)		Risk Ma	and Other anagement ivatives	Acc	alifying ounting edges		Total	Trading and Other Risk Management Derivatives					Total	
(Dollars in billions)		otional (±)	Dell	ivatives	- "	cuges		iotai		ciivatives	1100	iges		iotai	
Interest rate contracts		4= ====	_	400.0	_			440.0	_	400 =				407.0	
Swaps	Þ	17,788.7	\$	138.9	\$	1.3	\$	140.2	\$	132.7	\$	4.5	\$	137.2	
Futures and forwards		6,270.1		1.3		-		1.3		1.2		-		1.2	
Written options		1,433.4		_		_		_		26.7		_		26.7	
Purchased options		1,488.2		28.7		_		28.7		_		_		_	
Foreign exchange contracts															
Swaps		1,904.9		49.6		1.6		51.2		50.4		2.4		52.8	
Spot, futures and forwards		4,568.7		42.1		0.7		42.8		41.7		0.5		42.2	
Written options		300.4		_		_		_		5.1		-		5.1	
Purchased options		296.0		4.4		-		4.4		_		-		_	
Equity contracts															
Swaps		278.2		4.9		-		4.9		4.7		-		4.7	
Futures and forwards		104.8		1.0		-		1.0		1.3		-		1.3	
Written options		651.4		-		-		_		30.0		-		30.0	
Purchased options		586.1		40.0		-		40.0		_		-		_	
Commodity contracts															
Swaps		48.2		2.4		-		2.4		5.0		-		5.0	
Futures and forwards		63.5		3.2		_		3.2		0.5		-		0.5	
Written options		32.5		_		_		_		2.1		-		2.1	
Purchased options		29.5		2.1		_		2.1		_		_		_	
Credit derivatives (2)															
Purchased credit derivatives:															
Credit default swaps		430.3		4.9		-		4.9		9.8		-		9.8	
Total return swaps/options		64.6		0.4		-		0.4		0.9		-		0.9	
Written credit derivatives:															
Credit default swaps		398.2		9.3		_		9.3		4.3		_		4.3	
Total return swaps/options		62.5		0.5		_		0.5		0.3		_		0.3	
Gross derivative assets/liabilities			\$	333.7	\$	3.6	\$	337.3	\$	316.7	\$	7.4	\$	324.1	
Less: Legally enforceable master netting agreements								(259.7)						(259.7)	
Less: Cash collateral received/paid								(32.0)						(28.2)	
Total derivative assets/liabilities							\$	45.6					\$	36.2	

⁽¹⁾ Represents the total contract/notional amount of derivative assets and liabilities outstanding.
(2) The net derivative asset and notional amount of written credit derivatives for which the Corporation held purchased credit derivatives with identical underlying referenced names were \$4.3 billion and \$429.2 billion at September 30, 2018.

			December 31, 2017												
				Gr	ross D	Derivative Assets			Gross Derivative Liabilities						
(Dollars in billions)		Contract/ Notional (1)		Trading and Other Risk Management Derivatives		Qualifying Accounting Hedges		Total	Trading and Other Risk Management Derivatives		k Qualifying Accounting Hedges			Total	
Interest rate contracts															
Swaps	\$	15,416.4	\$	175.1	\$	2.9	\$	178.0	\$	172.5	\$	1.7	\$	174.2	
Futures and forwards		4,332.4		0.5		_		0.5		0.5		_		0.5	
Written options		1,170.5		_		_		_		35.5		_		35.5	
Purchased options		1,184.5		37.6		_		37.6		_		_		_	
Foreign exchange contracts															
Swaps		2,011.1		35.6		2.2		37.8		36.1		2.7		38.8	
Spot, futures and forwards		3,543.3		39.1		0.7		39.8		39.1		0.8		39.9	
Written options		291.8		_		_		_		5.1		_		5.1	
Purchased options		271.9		4.6		_		4.6		_		_		_	
Equity contracts															
Swaps		265.6		4.8		_		4.8		4.4		_		4.4	
Futures and forwards		106.9		1.5		_		1.5		0.9		_		0.9	
Written options		480.8		_		_		_		23.9		_		23.9	
Purchased options		428.2		24.7		_		24.7		_		_		_	
Commodity contracts															
Swaps		46.1		1.8		_		1.8		4.6		_		4.6	
Futures and forwards		47.1		3.5		_		3.5		0.6		_		0.6	
Written options		21.7		_		_		_		1.4		_		1.4	
Purchased options		22.9		1.4		_		1.4		_		_		_	
Credit derivatives (2)															
Purchased credit derivatives:															
Credit default swaps		470.9		4.1		_		4.1		11.1		_		11.1	
Total return swaps/options		54.1		0.1		_		0.1		1.3		_		1.3	
Written credit derivatives:															
Credit default swaps		448.2		10.6		_		10.6		3.6		_		3.6	
Total return swaps/options		55.2		0.8		_		0.8		0.2		_		0.2	
Gross derivative assets/liabilities			\$	345.8	\$	5.8	\$	351.6	\$	340.8	\$	5.2	\$	346.0	
Less: Legally enforceable master netting agreements								(279.2)						(279.2)	
Less: Cash collateral received/paid								(34.6)						(32.5)	

(1) Represents the total contract/notional amount of derivative assets and liabilities outstanding.
(2) The net derivative asset and notional amount of written credit derivatives for which the Corporation held purchased credit derivatives with identical underlying referenced names were \$6.4 billion and \$435.1 billion at December 31, 2017.

Offsetting of Derivatives

Total derivative assets/liabilities

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 2 -Derivatives to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-K.

The following table presents derivative instruments included in derivative assets and liabilities on the Consolidated Balance Sheet at September 30, 2018 and December 31, 2017 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 paid.

\$

37.8

December 31, 2017

For more information on offsetting of securities financing agreements, see Note 9 - Federal Funds Sold or Purchased, Securities Financing Agreements, Short-term Borrowings and Restricted Cash.

\$

34.3

Offsetting of Derivatives (1)

	0	erivative Assets		erivative abilities	Derivative Assets	Derivative Liabilitie	
(Dallars in billions)		Septemb	er 30, 20	18	Decemb	er 31, 2017	
Interest rate contracts							
Over-the-counter	\$	165.9	\$	161.0	\$ 211.7	\$	206.0
Over-the-counter cleared		2.7		2.5	19		18
Foreign exchange contracts							
Over-the-counter		95.2		97.1	78.7		80.8
Over-the-counter cleared		1.1		1.0	0.9		0.7
Equity contracts							
Over-the-counter		27.2		17.3	18.3		16.2
Exchange-traded		13.5		12.2	9.1		8.5
Commodity contracts							
Over-the-counter		3.6		5.1	2.9		4.4
Exchange-traded		1.0		1.1	0.7		0.8
Credit derivatives							
Over-the-counter		7.9		8.4	9.1		9.6
Over-the-counter cleared		6.9		6.6	6.1		6.0
Total gross derivative assets/liabilities, before netting							
Over-the-counter		299.8		288.9	320.7		317.0
Exchange-traded		14.5		13.3	9.8		9.3
Over-the-counter cleared		10.7		10.1	8.9		8.5
Less: Legally enforceable master netting agreements and cash collateral received/paid							
Over-the-counter		(270.1)		(266.1)	(296.9)		(294.6)
Exchange-traded		(11.9)		(11.9)	(8.6)		(8.6)
Over-the-counter cleared		(9.7)		(9.9)	(8.3)		(8.5)
Derivative assets/liabilities, after netting		33.3		24.4	25.6		23.1
Other gross derivative assets/liabilities (2)		12.3		11.8	12.2		11.2
Total derivative assets/liabilities		45.6		36.2	37.8		34.3
Less: Financial instruments collateral (3)		(18.4)		(9.3)	(11.2)		(10.4)
Total net derivative assets/liabilities	\$	27.2	\$	26.9	\$ 26.6	\$	23.9

(2) 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, and exchange-traded derivatives include listed options transacted on an exchange.

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

(3) Amounts are limited to the derivative asseptificability before 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.

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 2 -Derivatives to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-K.

Derivatives Designated as Accounting Hedges

The Corporation uses various types of interest rate and foreign exchange derivative 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 and equity derivatives 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 cross-currency basis swaps, and by issuing foreign currency-denominated debt (net investment hedges).

Effective January 1, 2018, the Corporation early adopted the hedge accounting standard on a prospective basis and, accordingly, prior-period hedge accounting disclosures were not conformed to the current-period presentation. For more information, see Note 1 - Summary of Significant Accounting Principles.

Fair Value Hedges

The table below summarizes information related to fair value hedges for the three and nine months ended September 30, 2018 and 2017.

Gains and Losses on Derivatives Designated as Fair Value Hedges

	т	ree Months Ende	d Sep	tember 30, 2018	Three Months Ended September 30, 2017								
(Dollars in millions)	Derivative			tive Hedged Item		Derivative		Hedged Item	Hedge Ineffectiveness				
Interest rate risk on longterm debt (1)	\$	(1,129)	\$	1,122	\$	(273)	\$	169	\$	(104)			
Interest rate and foreign currency risk on long-term debt (2, 3)		(182)		207		607		(593)		14			
Interest rate risk on available-for-sale securities (4)		12		(12)		(8)		7		(1)			
Total	\$	(1,299)	\$	1,317	\$	326	\$	(417)	\$	(91)			

	Niı	Nine Months Ended September 30, 2017							
		erivative	Hedged Item	Derivative Hedged Item			Hedged Item Hedge		
Interest rate risk on longterm debt (1)	\$	(4,303)	\$ 4,179	\$ (751)	\$	313	\$	(438)	
Interest rate and foreign currency risk on long-term debt $(2,3)$		(927)	795	1,631		(1,603)		28	
Interest rate risk on available-for-sale securities (4)		(20)	19	(71)		40		(31)	
Total	\$	(5,250)	\$ 4,993	\$ 809	\$	(1,250)	\$	(441)	

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

43 mounts are recorded in interest expense in the Consolidated Statement of Income.
 45 For the three and rine months ended September 30, 2018, the derivative amount includes losses of \$96 million and \$672 million in other income and losses of \$117 million and \$1.56 million in interest expense. For the same periods in 2017, the derivative amount includes gains of \$635 million and \$1.9 tillion in other income and losses of \$99 million and \$1.9 tillion in other income.
 46 Amounts are recorded in interest expense 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)

		Septemb	er 30, 2018), 2018		
(Dallars in millions)	_	Carrying Value	Cumulative Fair \ Adjustments (
Longtermdebt	\$	(137,610)	\$	1,839		
Available-for-sale securities (2)		951		(61)		

(1) For assets, increase (decrease) to carrying value and for liabilities, (increase) decrease to carrying value.
(2) The amortized cost of available-for-sale securities in fair value hedging relationships was \$948 million and is included in debt securities carried at fair value on the Consolidated Balance Sheet.

At September 30, 2018, the cumulative fair value adjustments remaining on longterm debt and available-for-sale (AFS) securities from discontinued hedging relationships were a decrease of \$400 million of the related liability, and a decrease of \$34 million of the related asset, 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 and nine months ended September 30, 2018 and 2017. Of the \$1.3 billion

after-tax net loss (\$1.7 billion pretax) on derivatives in accumulated OCI at September 30, 2018, \$280 million after-tax (\$368 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 six years, with a maximum length of time for certain forecasted transactions of 18 years.

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

		Gains (Losses) Recognized in Accumulated OCI on Derivatives	d in in Income OCI on Reclassified from			Gains (Losses) Recognized in Accumulated OCI on Derivatives		Gains (Losses) in Income Reclassified from Accumulated OCI				
(Dollars in millions, amounts pretax)	_	Three Months Ended September 30, 2018 Nine Months Ended September 30, 2018										
Cash flow hedges												
Interest rate risk on variable-rate assets (1)	\$	(54)	\$	(51)	\$	(553)	\$	(134)				
Price risk on certain restricted stock awards (2)		-		-		4		27				
Total	\$	(54)	\$	(51)	\$	(549)	\$	(107)				
Net investment hedges												
Foreign exchange risk (3)	\$	181	\$	383	\$	860	\$	382				
		Three Months Ende	ember 30, 2017	Nine Months Ended September 30, 201								
Cash flow hedges												
Interest rate risk on variable-rate assets (1)	\$	11	\$	(54)	\$	38	\$	(274)				
Price risk on certain restricted stock awards (2)		7		32		41		103				
Total	\$	18	\$	(22)	\$	79	\$	(171)				
Net investment hedges												
Foreign exchange risk (3)	\$	(427)	\$	(3)	\$	(1,541)	\$	1,811				

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 and nine months ended September 30, 2018 and 2017. These gains (losses) are largely offset by the income or expense that is recorded on the hedged item.

Gains and Losses on Other Risk Management Derivatives

	Three	Months Ended Se	Nine Months Ended September 30				
(Dollars in millions)	201	8	2017	2018	2017		
Interest rate risk on mortgage activities (1)	\$	(45) \$	1	\$ (206)	\$ 32		
Credit risk on loans		(2)	_	(7)	(3)		
Interest rate and foreign currency risk on ALM activities (2)		487	26	1,050	(26)		

Primarily related to hedges of interest rate risk on mortgage servicing rights (NSRs) 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 \$8 million and \$36 million for the three and nine morths ended September 30, 2018 compared to \$76 million and \$192 million for the same periods in 2017.
 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

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 both September 30, 2018 and December 31, 2017, the Corporation had transferred \$6.0 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 \$6.0 billion at the transfer dates. At September 30, 2018 and December 31, 2017, the fair value of the transferred securities was \$5.9 billion and \$6.1 billion. At September 30, 2018 and December 31, 2017, derivative assets of \$58 million and \$46 million and liabilities of \$1 million and \$3 million were recorded and are included in credit derivatives in the derivative instruments table on page 63.

⁽¹⁾ Amourts reclassified from accumulated OCI are recorded in interest income in the Consolidated Statement of Income.
(2) Amourts reclassified from accumulated OCI are recorded in personnel experse in the Consolidated Statement of Income.
(3) Amourts reclassified from accumulated OCI are recorded in other income in the Consolidated Statement of Income.
(3) Amourts reclassified from accumulated OCI are recorded in other income in the Consolidated Statement of Income.
(3) Amourts reclassified from accumulated OCI are recorded in other income in the Consolidated Statement of Income.
(3) Amourts reclassified from accumulated OCI are recorded in personnel experse in the Consolidated Statement of Income.
(4) Amourts reclassified from accumulated OCI are recorded in personnel expense in the Consolidated Statement of Income.
(5) Amourts reclassified from accumulated OCI are recorded in personnel expense in the Consolidated Statement of Income.
(6) Amourts reclassified from accumulated OCI are recorded in personnel expense in the Consolidated Statement of Income.
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(7) Amourts reclassified from accumulated OCI are recorded in personnel expense in the Consolidated Statement of Income.
(7) Amourts reclassified from accumulated OCI are recorded in personnel expense in the Consolidated Statement of Income.
(8) Amourts reclassified from accumulated OCI are recorded in the Income in the Consolidated Statement of Income.
(8) Amourts reclassified from accumulated OCI are recorded in the Income in the Consolidated Statement of Income.
(9) Amourts reclassi

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 2 - Derivatives to the Consolidated Financial Statements of the Corporation's 2017 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 and nine months ended September 30, 2018 and 2017. The difference between total trading account profits 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 17 - 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

	ng Account Profits		et Interest Income	o	ther (1)		Total	Trac	ling Account Profits	N	et Interest Income		Other (1)		Total
(Dollars in millions)	т	hree M	lonths Ended	Septe	mber 30, 20	18			1	Nine N	Nonths Ended	i Sep	tember 30, 20	18	
Interest rate risk	\$ 182	\$	307	\$	134	\$	623	\$	1,070	\$	946	\$	203	\$	2,219
Foreign exchange risk	379		(2)		2		379		1,175		(15)		5		1,165
Equity risk	853		(215)		350		988		3,105		(542)		1,196		3,759
Oredit risk	266		465		106		837		1,093		1,424		377		2,894
Other risk	47		26		19		92		171		39		60		270
Total sales and trading revenue	\$ 1,727	\$	581	\$	611	\$	2,919	\$	6,614	\$	1,852	\$	1,841	\$	10,307
		Thre	e Months Ended	l Septem	ber 30, 2017					Nir	ne Months Ende	d Sept	ember 30, 2017		
Interest rate risk	\$ 330	\$	365	\$	49	\$	744	\$	833	\$	1,182	\$	200	\$	2,215
Foreign exchange risk	348		2		2		352		1,063		(2)		5		1,066
Equity risk	639		(142)		467		964		2,088		(372)		1,427		3,143
Credit risk	362		482		105		949		1,482		1,467		450		3,399
Other risk	35		8		16		59		168		18		67		253
Total sales and trading revenue	\$ 1,714	\$	715	\$	639	\$	3,068	\$	5,634	\$	2,293	\$	2,149	\$	10,076

⁽¹⁾ Represents amounts in investment and brokerage services and other income that are recorded in *Global Markets* and included in the definition of sales and trading revenue. Includes investment and brokerage services revenue of \$378 million and \$1.3 billion for the three and nine months ended September 30, 2018 compared to \$488 million and \$1.5 billion for the same periods in 2017.

Credit Derivatives

The Corporation enters into credit derivatives primarily to facilitate client transactions and to manage credit risk exposures. Credit derivatives derive value based on an underlying third-party referenced obligation or a portfolio of referenced obligations and generally require the Corporation, as the seller of credit protection, to make payments to a buyer upon the occurrence of a predefined credit event. Such credit events generally include bankruptcy of the referenced credit entity and failure to pay under the obligation.

as well as acceleration of indebtedness and payment repudiation or moratorium. For credit derivatives based on a portfolio of referenced credits or credit indices, the Corporation may not be required to make payment until a specified amount of loss has occurred and/or may only be required to make payment up to a specified amount.

Credit derivative instruments where the Corporation is the seller of credit protection and their particular of Corporation 2000 8 and December 21, 2017, are a proportion.

Credit derivative instruments where the Corporation is the seller of credit protection and their expiration at September 30, 2018 and December 31, 2017 are summarized in the table below.

Credit Derivative Instruments

	_	Less than One Year		One to Three Years		Three to Five Years		Over Five Years		Total
					Sept	ember 30, 2018	3			
(Dollars in millions)	_				C	arrying Value				
Credit default swaps:										
Investment grade	\$	2	\$	38	\$	335	\$	590	\$	965
Non-investment grade		61		492		1,007		1,802		3,362
Total		63		530		1,342		2,392		4,327
Total return swaps/options:										
Investment grade		22		-		_		-		22
Non-investment grade		263		28		_		_		291
Total		285		28		_		_		313
Total credit derivatives	\$	348	\$	558	\$	1,342	\$	2,392	\$	4,640
Credit-related notes:										
Investment grade	\$	_	\$	_	\$	5	\$	602	\$	607
Non-investment grade		3		1		4		1,455		1,463
Total credit-related notes	\$	3	\$	1	\$	9	\$	2,057	\$	2,070
	<u> </u>					m Payout/Notic	nal	· ·		· ·
Credit default swaps:	_									
Investment grade	\$	61,224	\$	93,646	\$	82,657	\$	30,883	\$	268,410
Non-investment grade		22,980		37,907		47,164		21,785		129,836
Total		84,204		131,553		129,821		52,668		398,246
Total return swaps/options:		-		· · ·		· ·		· ·		· ·
Investment grade		40,115		1,263		62		76		41,516
Non-investment grade		20,648		207		39		72		20,966
Total		60,763		1,470		101		148		62,482
Total credit derivatives	\$	144,967	\$	133,023	\$	129,922	\$	52,816	\$	460,728
	<u> </u>	,		,.				. ,		
		December 31, 2017								
						CarryingValue				
Credit default swaps:										
Investment grade	\$	4	\$	3	\$	61	\$	245	\$	313
Non-investment grade		203		453		484		2,133		3,273
Total		207		456		545		2,378		3,586
Total return swaps/options:										
Investment grade		30		_		_		_		30
Non-investment grade		150		_		_		3		153
Total		180		_		_		3		183
Total credit derivatives	\$	387	\$	456	\$	545	\$	2,381	\$	3,769
Credit-related notes:								·		
Investment grade	\$	_	\$	_	\$	7	\$	689	\$	696
Non-investment grade	·	40	•		•		Ť		•	
		12	_	4	_	34	_	1,548	_	1,598
Total credit-related notes	\$	12	\$	4	\$ Movin	41 num Payout/Notion	\$	2,237	\$	2,294
0 71.16	_				IVIDAIII	umrayou(/Notion	11			
Credit default swaps:		04.000		445 400		407.00		04.570	.	005 500
Investment grade	\$	61,388	\$	115,480	\$	107,081	\$	21,579	\$	305,528
Non-investment grade		39,312		49,843		39,098		14,420		142,673
Total		100,700		165,323		146,179		35,999		448,201
Total return swaps/options:										
Investment grade		37,394		2,581		_		143		40,118
Non-investment grade		13,751		514		143		697		15,105

Total	51,145	3,095	143	840	55,223
Total credit derivatives	\$ 151,845	\$ 168,418	\$ 146,322	\$ 36,839 \$	503,424

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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.

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 September 30, 2018 and December 31, 2017, the Corporation held cash and securities collateral of \$83.7 billion and \$77.2 billion, and posted cash and securities collateral of \$55.1 billion and \$59.2 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 2 – Derivatives to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-K.

At September 30, 2018, 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 \$1.2 billion for Bank of America, National Association (Bank of America, N.A. or BANA).

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 September 30, 2018 and December 31, 2017, 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 September 30, 2018 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 September 30, 2018

(Dollars in millions)	-	One Intal notch	econd ental notch				
Bank of America Corporation	\$	554	\$	314			
Bank of America, N.A. and subsidiaries (1)		212		264			
(1) Included in Bank of America Corporation collateral requirements in this table.							

The table below 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 September 30, 2018 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 September 30, 2018

(Dollars in millions)	-	ne Ital notch	Second incremental notch			
Derivative liabilities	\$	260	\$	607		
Collateral posted		201		399		

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 profits, on a gross and net of hedge basis for the three and nine months ended September 30, 2018 and 2017 . For more information on the valuation adjustments on derivatives, see *Note 2 – Derivatives* to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-K.

Valuation Adjustments on Derivatives (1)

Gains (Losses)	Three Months Ended September 30											
(Dollars in millions)		2018		2017								
	G	iross	Net	G	iross	Net						
Derivative assets (CVA)	\$	71 \$	27	\$	23 \$	15						
Derivative assets/liabilities (FVA)		45	35		37	43						
Derivative liabilities (DVA)		(69)	(79)		29	17						

	Nine Mo	nths End	led Se	ptember 30	
	2018			2017	
Derivative assets (CVA)	\$ 186 \$	172	\$	281 \$	93
Derivative assets/liabilities (FVA)	36	16		113	140
Derivative liabilities (DVA)	(112)	(132)		(249)	(201)

⁽¹⁾ At September 30, 2018 and December 31, 2017, cumulative CVA reduced the derivative assets balance by \$491 million and \$677 million, cumulative FVA reduced the net derivatives balance by \$100 million and \$1.36 million, and cumulative DVA reduced the derivative liabilities balance by \$338 million and \$450 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 September 30, 2018 and December 31, 2017.

Debt Securities

		Amortized Cost	Un	Gross realized Gains	U	Gross Inrealized Losses	Fair Value
(Dallars in millions)	_			Septembe	er 30,	2018	
Available-for-sale debt securities							
Mortgage-backed securities:							
Agency	\$	141,721	\$	101	\$	(5,710)	\$ 136,112
Agency-collateralized mortgage obligations		5,878		9		(209)	5,678
Commercial		14,138		2		(630)	13,510
Non-agency residential (1)		1,926		217		(6)	2,137
Total mortgage-backed securities		163,663		329		(6,555)	157,437
U.S. Treasury and agency securities		54,664		8		(2,366)	52,306
Non-U.S. securities		7,076		5		(2)	7,079
Other taxable securities, substantially all asset-backed securities		3,806		77		(7)	3,876
Total taxable securities		229,209		419		(8,930)	220,698
Tax-exempt securities		18,401		36		(87)	18,350
Total available-for-sale debt securities		247,610		455		(9,017)	239,048
Other debt securities carried at fair value		12,409		205		(27)	12,587
Total debt securities carried at fair value		260,019		660		(9,044)	251,635
Held-to-maturity debt securities, substantially all U.S. agency mortgage-backed securities (2)		194,472		1		(6,485)	187,988
Total debt securities (3, 4)	\$	454,491	\$	661	\$	(15,529)	\$ 439,623
	_			Decembe	er 31, 2	2017	
Available-for-sale debt securities							
Mortgage-backed securities:							
Agency	\$	194,119	\$	506	\$	(1,696)	\$ 192,929
Agency-collateralized mortgage obligations		6,846		39		(81)	6,804
Commercial		13,864		28		(208)	13,684
Nonagency residential (1)		2,410		267		(8)	2,669
Total mortgage-backed securities		217,239		840		(1,993)	216,086
U.S. Treasury and agency securities		54,523		18		(1,018)	53,523
Non-U.S. securities		6,669		9		(1)	6,677
Other taxable securities, substantially all asset-backed securities		5,699		73		(2)	5,770
Total taxable securities		284,130		940		(3,014)	282,056
Tax-exempt securities		20,541		138		(104)	20,575
Total available-for-sale debt securities		304,671		1,078		(3,118)	302,631
Other debt securities carried at fair value		12,273		252		(39)	12,486
Total debt securities carried at fair value		316,944		1,330		(3,157)	315,117
Held-to-maturity debt securities, substantially all U.S. agency mortgage-backed securities		125,013		111		(1,825)	123,299
Total debt securities (3, 4)	\$	441,957	\$	1,441	\$	(4,982)	\$ 438,416

At September 30, 2018, the accumulated net unrealized loss on AFS debt securities included in accumulated OCI was \$6.4 billion, net of the related income tax benefit of \$2.1 billion. The Corporation had nonperforming AFS debt securities of \$71

million and \$99 million at September 30, 2018 and December 31, 2017.

Effective January 1, 2018, the Corporation adopted an accounting standard applicable to equity securities. For more information, see Note 1 - Summary of Significant Accounting Principles. At September 30, 2018, the Corporation held equity securities at an aggregate fair value of \$947 million and other equity securities, as valued under the measurement alternative, at cost of \$252 million, both of which are included in other assets.

At September 30, 2018, the Corporation also held equity securities at fair value of \$1.5 billion included in time deposits placed and other short-term investments.

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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 and nine months ended September 30, 2018, the Corporation recorded unrealized mark-tomarket net losses of \$106 million and \$37 million, and realized net gains of \$114 million and \$123 million, compared to unrealized mark-to-market net gains of \$124 million and \$323 million and realized net losses of \$11 million and \$129 million for the same periods in 2017. These amounts exclude hedge results.

Available-for-sale marketable equity securities (5)

A September 30, 2018 and December 31, 2017, the underlying colleteral type included approximately 65 percent and 62 percent prime, seven percent and 13 percent AHA and 28 percent and 25 percent subprime.

(2) During the three and nine months ended September 30, 2018, the Corporation transferred \$25 billion and \$50 billion of available for sale debt securities to held to maturity.

(3) Includes socurities percent and 45 \$39.7 billion and \$53.8 billion and \$53

Other Debt Securities Carried at Fair Value

(Dollars in millions)	ember 30 2018	C	December 31 2017
Mortgage-backed securities	\$ 1,696	\$	2,769
Non-U.S. securities (1)	10,888		9,488
Other taxable securities, substantially all asset-backed securities	3		229
Total	\$ 12,587	\$	12,486

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

The gross realized gains and losses on sales of AFS debt securities for the three and nine months ended September 30, 2018 and 2017 are presented in the table below.

Gains and Losses on Sales of AFS Debt Securities

Total temporarily impaired AFS debt securities

(Dollars in millions) Gross gains Gross losses Net gains on sales of AFS debt securities Income tax expense attributable to realized net gains on sales of AFS debt securities	Thr	ee Months En	ded Se	ptember 30	Nine Months Ended September							
(Dollars in millions)		2018		2017		2018		2017				
Gross gains	\$	83	\$	130	\$	86	\$	286				
Gross losses		(10)		(5)		(10)		(8)				
Net gains on sales of AFS debt securities	\$	73	\$	125	\$	76	\$	278				
Income tax expense attributable to realized net gains on sales of AFS debt securities	\$	17	\$	48	\$	18	\$	106				

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 September 30, 2018 and December 31, 2017.

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

		Less than T	walve	Months	Twelve Mon	the c-	Londor	Total				
		Fair Value	Uı	Gross nrealized Losses	 Fair Value	Un	Gross realized Losses		Fair Value	Ur	Gross nrealized Losses	
(Dollars in millions)	_				Septembe	er 30, :	2018					
Temporarily impaired AFS debt securities												
Mortgage-backed securities:												
Agency	\$	45,433	\$	(1,190)	\$ 87,214	\$	(4,520)	\$	132,647	\$	(5,710)	
Agency-collateralized mortgage obligations		1,959		(47)	3,344		(162)		5,303		(209)	
Commercial		4,923		(146)	7,962		(484)		12,885		(630)	
Non-agency residential		23		(2)	51		(4)		74		(6)	
Total mortgage-backed securities		52,338		(1,385)	98,571		(5,170)		150,909		(6,555)	
U.S. Treasury and agency securities		10,651		(409)	40,337		(1,957)		50,988		(2,366)	
Non-U.S. securities		706		(1)	81		(1)		787		(2)	
Other taxable securities, substantially all asset-backed securities		208		(3)	150		(4)		358		(7)	
Total taxable securities		63,903		(1,798)	139,139		(7,132)		203,042		(8,930)	
Tax-exempt securities		474		(1)	4,324		(86)		4,798		(87)	
Total temporarily impaired AFS debt securities		64,377		(1,799)	143,463		(7,218)		207,840		(9,017)	
Other-than-temporarily impaired AFS debt securities (1)												
Non-agency residential mortgage-backed securities		93		_	_		_		93		_	
Total temporarily impaired and other-than-temporarily impaired AFS debt securities	\$	64,470	\$	(1,799)	\$ 143,463	\$	(7,218)	\$	207,933	\$	(9,017)	
					Decembe	er 31, 20	017					
Temporarily impaired AFS debt securities												
Mortgage-backed securities:												
Agency	\$	73,535	\$	(352)	\$ 72,612	\$	(1,344)	\$	146,147	\$	(1,696)	
Agency-collateralized mortgage obligations		2,743		(29)	1,684		(52)		4,427		(81)	
Commercial		5,575		(50)	4,586		(158)		10,161		(208)	
Non-agency residential		335		(7)	_		_		335		(7)	
Total mortgage-backed securities		82,188		(438)	78,882		(1,554)		161,070		(1,992)	
U.S. Treasury and agency securities		27,537		(251)	24,035		(767)		51,572		(1,018)	
Non-U.S. securities		772		(1)	_		_		772		(1)	
Other taxable securities, substantially all asset-backed securities		_		_	 92		(2)		92		(2)	
Total taxable securities		110,497		(690)	103,009		(2,323)		213,506		(3,013)	
Tax-exempt securities		1,090		(2)	7,100		(102)		8,190		(104)	

111,587

(692)

110,109

(2,425)

221,696

(3,117)

Other-than-temporarily impaired AFS debt securities (1)						
Non-agency residential mortgage-backed securities	58	(1)	_	_	58	(1)
Total temporarily impaired and other-than-temporarily impaired AFS debt securities	\$ 111,645	\$ (693)	\$ 110,109	\$ (2,425)	\$ 221,754	\$ (3,118)

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

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The Corporation had \$12 million and \$23 million of credit-related OTTI losses on AFS debt securities which were recognized in other income for the three and nine months ended September 30, 2018 compared to \$0 and \$33 million for the same periods in 2017. The amount of noncredit-related OTTI losses recognized in OCI was not significant for all periods presented.

The cumulative OTTI credit losses recognized in income on AFS debt securities that the Corporation does not intend to sell were \$135 million and \$284 million at

September 30, 2018 and 2017.

For more information on OTTI losses and significant assumptions used for the Corporation's underlying collateral, see Note 3 – Securities to the Consolidated Financial Statements of the Corporation's 2017 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 September 30, 2018.

Annual constant prepayment speed and loss severity rates are projected considering collateral characteristics such as Ioan-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 16.2 percent for prime, 16.4 percent for Alt-A and 22.2 percent for subprime at September 30, 2018. Default rates are projected by considering collateral characteristics including, but not limited to, LTV, FICO and geographic concentration. Weighted-average life default rates by collateral type were 16.1 percent for prime, 21.9 percent for Alt-A and 22.7 percent for subprime at September 30, 2018.

The remaining contractual maturity distribution and yields of the Corporation's debt securities carried at fair value and HTM debt securities at September 30, 2018 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.

Significant Assumptions

		Rang	e (1)
	Weighted average	10th Percentile (2)	90th Percentile (2)
Prepayment speed	12.0%	3.1%	23.3%
Loss severity	18.1	8.4	31.0
Life default rate	20.1	0.7	73.5

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

		in One or Less		r One Year Five Years		Five Years Ten Years		after Years	To	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	\$ -	-%	\$ 24	4.12%	\$ 463	2.62%	\$ 141,234	3.31%	\$ 141,721	3.31%
Agency-collateralized mortgage obligations	_	-	_	-	31	2.48	5,847	3.17	5,878	3.17
Commercial	314	1.74	2,391	2.36	10,658	2.50	775	2.97	14,138	2.49
Non-agency residential	_	-		-	19	n/m	3,439	9.66	3,458	9.61
Total mortgage-backed securities	314	1.74	2,415	2.38	11,171	2.50	151,295	3.45	165,195	3.36
U.S. Treasury and agency securities	643	0.71	33,567	1.47	20,418	2.27	36	2.70	54,664	1.76
Non-U.S. securities	16,518	0.77	1,305	1.08	2	3.56	128	6.15	17,953	0.83
Other taxable securities, substantially all asset-backed securities	685	3.88	2,236	3.28	789	3.47	96	4.68	3,806	3.46
Total tavable securities	18,160	0.90	39,523	1.61	32,380	2.38	151,555	3.45	241,618	2.82
Tax-exempt securities	1,737	2.57	7,234	2.42	6,929	2.38	2,501	2.78	18,401	2.47
Total amortized cost of debt securities carried at fair value	\$ 19,897	1.05	\$ 46,757	1.74	\$ 39,309	2.38	\$154,056	3.44	\$260,019	2.79
Amortized cost of HTM debt securities (2)	\$ 4	3.36	\$ 55	3.62	\$ 1,484	2.76	\$192,929	3.22	\$194,472	3.22
Debt securities carried at fair value										
Mortgage-backed securities:										
Agency	\$ -		\$ 25		\$ 452		\$ 135,635		\$ 136,112	
Agency-collateralized mortgage obligations	_		-		29		5,649		5,678	
Commercial	312		2,323		10,138		737		13,510	
Non-agency residential	_				36		3,797		3,833	
Total mortgage-backed securities	312		2,348		10,655		145,818		159,133	
U.S. Treasury and agency securities	642		32,106		19,523		35		52,306	
Non-U.S. securities	16,519		1,314		2		132		17,967	
Other taxable securities, substantially all asset-backed securities	681		2,255		829		114		3,879	
Total tavalole securities	18,154		38,023		31,009		146,099		233,285	
Tax-exempt securities	1,736		7,235		6,897		2,482		18,350	
Total debt securities carried at fair value	\$ 19,890		\$ 45,258		\$ 37,906		\$148,581		\$251,635	
Fair value of HTM debt securities (2)	\$ 4		\$ 55		\$ 1,415		\$186,514		\$187,988	

⁽¹⁾ The average yield is computed based on a constant effective interest rate over the contractual life of each security. The average yield considers the contractual coupon and the amortization of premiums and accretion of discounts, excluding the effect of related hedging derivatives.

(2) Substantially all U.S. agency MBS.

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

n/m = not meaningful

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 September 30, 2018 and December 31, 2017.

	59 Days t Due (1)	-89 Days st Due (1)) Days or More st Due (2)	Du	otal Past e 30 Days or More	OI	tal Current Less Than Days Past Due (3)	_	urchased Credit- paired (4)	for Fa	s Accounted Under the air Value Option	Oı	Total utstandings
(Dollars in millions)					Septe	mber	30, 2018						
Consumer real estate													
Core portfolio													
Residential mortgage	\$ 1,248	\$ 253	\$ 814	\$	2,315	\$	186,975					\$	189,290
Home equity	200	89	453		742		39,854						40,596
Non-core portfolio													
Residential mortgage	815	351	2,345		3,511		10,044	\$	5,341				18,896
Home equity	162	78	398		638		8,190		1,811				10,639
Credit card and other consumer													
U.S. credit card	546	387	872		1,805		93,024						94,829
Direct/Indirect consumer (5)	297	84	37		418		90,920						91,338
Other consumer (6)	_	_	_		_		203						203
Total consumer	3,268	1,242	4,919		9,429		429,210		7,152				445,791
Consumer loans accounted for under the fair value option (7)										\$	755		755
Total consumer loans and leases	3,268	1,242	4,919		9,429		429,210		7,152		755		446,546
Commercial													
U.S. commercial	433	127	469		1,029		284,633						285,662
Non-U.S. commercial	29	_	_		29		95,973						96,002
Commercial real estate (8)	20	33	10		63		60,772						60,835
Commercial lease financing	48	94	41		183		21,363						21,546
U.S. small business commercial	68	48	89		205		14,029						14,234
Total commercial	598	302	609		1,509		476,770						478,279
Commercial loans accounted for under the fair value option (7)											4,976		4,976
Total commercial loans and leases	598	302	609		1,509		476,770				4,976		483,255
Total loans and leases (9)	\$ 3,866	\$ 1,544	\$ 5,528	\$	10,938	\$	905,980	\$	7,152	\$	5,731	\$	929,801
Percentage of outstandings	0.42%	0.17%	0.59%		1.18%		97.44%		0.77%		0.61%		100.00%

(1) Consumer real estate loans 30-59 days past due includes fully-insured loans of \$7:14 million and nonperforming loans of \$233 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of \$309 million and nonperforming loans of \$175

William real estate includes fully insured loans of \$2.2 billion.

(2) Consumer real estate includes \$2.0 billion and direct/indirect consumer includes \$44 million of nonperforming loans.

(3) Consumer real estate includes \$2.0 billion and direct/indirect consumer includes \$44 million of nonperforming loans.

(4) Purchased credit impaired (PCI) loan amounts are shown gross of the valuation allowance.

(5) Total outstandings includes auto and specialty lending loans and leases of \$50.1 billion, unsecured consumer lending loans of \$392 million, U.S. securities-based lending loans of \$37.4 billion, non-U.S. consumer loans of \$2.7 billion and other consumer loans of \$756 million.

on load outstanding includes also and specially learning loars and leases of \$50.1 onlinor, unsecured consumer learning loars of \$3.92 million, U.S. securities deseal learning loars of \$3.7.4 onlinor, non-U.S. consumer loars of \$2.7 on linor and other consumer loars of \$2.7 on linor and loars of \$3.48 million. Commercial loars accounted for under the fair value option includes residential mortgage loars of \$40.7 million and non-U.S. commercial loars of \$1.4 billion. For more information, see Note 14 - Fair Value Measurements and Note 15 - Fair Value Option.

(8) Total outstandings includes U.S. commercial real estate loars of \$56.9 billion and non-U.S. commercial real estate loars of \$3.3.9 billion.

(9) Total outstandings includes U.S. commercial real estate loars of \$56.9 billion and non-U.S. commercial real estate loars of \$56.9 billion. The Comparation also pledged \$158.5 billion of loars with no related outstanding borrowings to secure potential borrowing capacity with the Federal Reserve Bank and Federal Home Loan Bank (FHLB).

	059 Days ast Due (1)	60	-89 Days Past Due (1)	00 Days or More ast Due (2)	Total Past ue 30 Days or More	ı	Total Current or Less Than 30 Days ast Due (3)	turchased dit-impaired (4)	Loans Accounted for Under the Fair /alue Option	Tota	al Outstandings
(Dollars in millions)					Decen	nber 31	, 2017				
Consumer real estate											
Core portfolio											
Residential mortgage	\$ 1,242	\$	321	\$ 1,040	\$ 2,603	\$	174,015			\$	176,618
Home equity	215		108	473	796		43,449				44,245
Non-core portfolio											
Residential mortgage	1,028		468	3,535	5,031		14,161	\$ 8,001			27,193
Home equity	224		121	572	917		9,866	2,716			13,499
Credit card and other consumer											
U.S. credit card	542		405	900	1,847		94,438				96,285
Direct/Indirect consumer (5)	330		104	44	478		95,864				96,342
Other consumer (6)	_		_	_	_		166				166
Total consumer	3,581		1,527	6,564	11,672		431,959	10,717			454,348
Consumer loans accounted for under the fair value option (7)									\$ 928		928
Total consumer loans and leases	3,581		1,527	6,564	11,672		431,959	10,717	928		455,276
Commercial											
U.S. commercial	547		244	425	1,216		283,620				284,836
Non-U.S. commercial	52		1	3	56		97,736				97,792
Commercial real estate (8)	48		10	29	87		58,211				58,298
Commercial lease financing	110		68	26	204		21,912				22,116
U.S. small business commercial	95		45	88	228		13,421				13,649
Total commercial	852		368	571	1,791		474,900				476,691
Commercial loans accounted for under the fair value option (7)									4,782		4,782
Total commercial loans and leases	852		368	571	1,791		474,900		4,782		481,473
Total loans and leases (9)	\$ 4,433	\$	1,895	\$ 7,135	\$ 13,463	\$	906,859	\$ 10,717	\$ 5,710	\$	936,749
Percentage of outstandings	0.48%		0.20%	0.76%	1.44%		96.81%	1.14%	0.61%		100.00%

(1) Consumer real estate loans 30.59 days past due includes fully-insured loans of \$850 million and nonperforming loans of \$253 million. Consumer real estate loans 60.89 days past due includes fully-insured loans of \$386 million and nonperforming loans of \$195

(a) Ordistries teal solate locals of the state includes fully instructed loans of \$3.2 billion.

(b) Consumer real estate includes \$2.3 billion and direct/indirect consumer includes \$4.3 million of nonperforming loans.

(c) Consumer real estate includes \$2.3 billion and direct/indirect consumer includes \$4.3 million of nonperforming loans.

(d) FOI loan amounts are shown gross of the valuation allowence.

(e) Total outstandings includes auto and specialty lending loans and leases of \$52.4 billion, unsecured consumer lending loans of \$469 million, U.S. securities-based lending loans of \$39.8 billion, non-U.S. consumer loans of \$3.0 billion and other consumer loans of \$684 million.

To Consumer loans accounted for under the fair value option includes residential mortgage loans of \$567 million and home equity loans of \$361 million. Commercial loans accounted for under the fair value option includes U.S. commercial loans of \$2.2 billion. For more information, see Note 14 - Fair Value Measurements and Note 15 - Fair Value Option.

18 Total outstandings includes U.S. commercial loans of \$2.2 billion. For more information, see Note 15 - Fair Value Measurements and Note 15 - Fair Value Option.

19 Total outstandings includes loans and leases pledged as collateral of \$40.1 billion. The Corporation also pledged \$160.3 billion of loans with no related outstanding borrowings to secure potential borrowing capacity with the Federal Reserve Bank and FHLB.

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 run-off portfolios.

The Corporation has entered into long-term credit protection agreements with FNMA and FHLMC on loans totaling \$6.1 billion and \$6.3 billion at September 30, 2018 and December 31, 2017, 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 and nine months ended September 30, 2018, certain consumer real estate loans, primarily non-core, with carrying values of \$3.7 billion and \$4.9 billion were sold, resulting in gains of \$84 million and \$656 million recorded in other income in the Consolidated Statement of Income.

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 September 30, 2018 and December 31, 2017, \$225 million and \$330 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 September 30, 2018, nonperforming loans discharged in Chapter 7 bankruptcy with no change in repayment terms were \$220 million of which \$113 million were current on their contractual payments, while \$90 million were 90 days or more past due. Of the contractually current nonperforming loans, 66 percent were discharged in Chapter 7 bankruptcy over 12 months ago, and 58 percent were discharged 24 months or more ago.

During the three and nine months ended September 30, 2018, the Corporation sold nonperforming and PCI consumer real estate loans with a carrying value of \$2.1 billion and \$2.7 billion, including \$2.0 billion and \$2.1 billion of POI loans, compared to \$700 million and \$1.2 billion, including \$538 million and \$742 million of POI loans, for the same periods in 2017. During the nine months ended September 30, 2018 and 2017, the Corporation transferred consumer nonperforming loans with a net carrying value of \$2 million and \$198 million to held for sale.

The table below presents the Corporation's nonperforming loans and leases including nonperforming TDRs, and loans accruing past due 90 days or more at September 30, 2018 and December 31, 2017. 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 2017 Annual Report on Form 10-K.

Credit Quality

		Nonperfor and	ming Lease:		Accruing 90 Days	
(Dollars in millions)	Se	eptember 30 2018		December 31 2017	ember 30 2018	December 31 2017
Consumer real estate						
Core portfolio						
Residential mortgage (1)	\$	1,011	\$	1,087	\$ 308	\$ 417
Home equity		1,056		1,079	-	_
Non-core portfolio						
Residential mortgage (1)		1,023		1,389	1,853	2,813
Home equity		1,170		1,565	-	_
Credit card and other consumer						
U.S. credit card		n/a		n/a	872	900
Direct/Indirect consumer		46		46	35	40
Other consumer		-		_	_	_
Total consumer		4,306		5,166	3,068	4,170
Commercial						
U.S. commercial		699		814	114	144
Non-U.S. commercial		31		299	_	3
Commercial real estate		46		112	1	4
Commercial lease financing		14		24	33	19
U.S. small business commercial		58		55	73	75
Total commercial		848		1,304	221	245
Total loans and leases	\$	5,154	\$	6,470	\$ 3,289	\$ 4,415

⁽¹⁾ Residential mortgage loans in the core and non-core portfolios accruing past due 90 days or more are fully-insured loans. At September 30, 2018 and December 31, 2017, residential mortgage includes \$1.6 billion and \$2.2 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 \$579 million and \$1.0 billion of loans on which interest is still accruing n/a = not applicable

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 Significant Accounting Principles - Loans and Leases in Note 1 Summary of Significant Accounting Principles and Credit Quality Indicators in Note 4 - Outstanding Loans and Leases to the Consolidated Financial Statements of the Corporation's 2017 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 September 30, 2018 and December 31, 2017.

Consumer Real Estate - Credit Quality Indicators (1)

	 Core esidential ortgage (2)	R	Non-core lesidential ortgage (2)	 esidential lortgage PCI	-	ore Home Equity (2)	-core Home Equity (2)	E	Home quity PCI
(Dollars in millions)				Septembe	er 30, 2	2018			
Refreshed LTV (3)									
Less than or equal to 90 percent	\$ 168,949	\$	8,594	\$ 4,720	\$	39,719	\$ 6,862	\$	1,277
Greater than 90 percent but less than or equal to 100 percent	2,483		503	310		409	757		248
Greater than 100 percent	923		544	311		468	1,209		286
Fully-insured loans (4)	16,935		3,914						
Total consumer real estate	\$ 189,290	\$	13,555	\$ 5,341	\$	40,596	\$ 8,828	\$	1,811
Refreshed FICO score									
Less than 620	\$ 2,115	\$	1,673	\$ 1,185	\$	1,118	\$ 1,650	\$	290
Greater than or equal to 620 and less than 680	4,379		1,387	1,010		2,096	1,883		288
Greater than or equal to 680 and less than 740	22,973		2,327	1,574		7,113	2,288		511
Greater than or equal to 740	142,888		4,254	1,572		30,269	3,007		722
Fully-insured loans (4)	16,935		3,914						
Total consumer real estate	\$ 189,290	\$	13,555	\$ 5,341	\$	40,596	\$ 8,828	\$	1,811

Credit Card and Other Consumer - Credit Quality Indicators

	U.	S. Credit Card		rect/Indirect Consumer	Other Co	nsumer
(Dollars in millions)			Sept	tember 30, 2018	1	
Refreshed FIOO score						
Less than 620	\$	4,683	\$	1,752		
Greater than or equal to 620 and less than 680		11,974		3,260		
Greater than or equal to 680 and less than 740		34,896		9,090		
Greater than or equal to 740		43,276		36,351		
Other internal credit metrics (1, 2)				40,885	\$	203
Total credit card and other consumer	\$	94,829	\$	91,338	\$	203

Commercial - Credit Quality Indicators (1)

tollars in millions)	_ c	U.S. ommercial	Non-U.S. ommercial	R	ommercial eal Estate ember 30, 2018	commercial Lease Financing	E	S. Small Business Imercial (2)
sk ratings				00,00				
Pass rated	\$	277,732	\$ 94,868	\$	60,271	\$ 21,173	\$	275
Reservable criticized		7,930	1,134		564	373		31
freshed FICO score (3)								
ess than 620								242
eater than or equal to 620 and less than 680								650
ter than or equal to 680 and less than 740								1,993
ter than or equal to 740								4,181
ternal credit metrics (3, 4)								6,862
al commercial	\$	285,662	\$ 96,002	\$	60,835	\$ 21,546	\$	14,234

Excludes \$755 million of loans accounted for under the fair value option.
 Excludes PCI loans.
 Refreshed LTV percentages for PCI loans are calculated using the carrying value net of the related valuation allowance.
 Credit quality indicators are not reported for fully-insured loans as principal repayment is insured.

 ⁽¹⁾ Other internal credit metrics may include delinquency status, geography or other factors.
 (2) Direct/indirect consumer includes \$40.1 billion of securities based lending which is overcollateralized and therefore has minimal credit risk.

Consumer Real Estate - Credit Quality Indicators (1)

	e Residential Nortgage (2)	Non-core Residential Vlortgage (2)	Residential Mortgage PCI	Cor	e Home Equity (2)	N	on-core Home Equity (2)	Home Equity PCI
(Dollars in millions)			Decembe	er 31, 20	017			
Refreshed LTV (3)								
Less than or equal to 90 percent	\$ 153,669	\$ 12,135	\$ 6,872	\$	43,048	\$	7,944	\$ 1,781
Greater than 90 percent but less than or equal to 100 percent	3,082	850	559		549		1,053	412
Greater than 100 percent	1,322	1,011	570		648		1,786	523
Fully-insured loans (4)	18,545	5,196						
Total consumer real estate	\$ 176,618	\$ 19,192	\$ 8,001	\$	44,245	\$	10,783	\$ 2,716
Refreshed FICO score								
Less than 620	\$ 2,234	\$ 2,390	\$ 1,941	\$	1,169	\$	2,098	\$ 452
Greater than or equal to 620 and less than 680	4,531	2,086	1,657		2,371		2,393	466
Greater than or equal to 680 and less than 740	22,934	3,519	2,396		8,115		2,723	786
Greater than or equal to 740	128,374	6,001	2,007		32,590		3,569	1,012
Fully-insured loans (4)	18,545	5,196						
Total consumer real estate	\$ 176,618	\$ 19,192	\$ 8,001	\$	44,245	\$	10,783	\$ 2,716

Credit Card and Other Consumer - Credit Quality Indicators

	U.S. Credit Card	Direct/Indirect Consumer	Other	Consumer
(Dallars inmillions)		December 31, 2017		
Refreshed FIOO score				
Less than 620	\$ 4,730	\$ 2,005		
Greater than or equal to 620 and less than 680	12,422	4,064		
Greater than or equal to 680 and less than 740	35,656	10,371		
Greater than or equal to 740	43,477	36,445		
Other internal credit metrics (1, 2)		43,457	\$	166
Total credit card and other consumer	\$ 96,285	\$ 96,342	\$	166

Commercial - Credit Quality Indicators (1)

	U.S. Commercial	Non-U.S. Commercial		Commercial Real Estate	Commercial Lease Financing	U.S. Small Business Commercial (2)
(Dallars in millions)			Dec	ember 31, 2017		
Risk ratings						
Pass rated	\$ 275,904	\$ 96,199	\$	57,732	\$ 21,535	\$ 322
Reservable criticized	8,932	1,593		566	581	50
Refreshed FICO score (3)						
Less than 620						223
Greater than or equal to 620 and less than 680						625
Greater than or equal to 680 and less than 740						1,875
Greater than or equal to 740						3,713
Other internal credit metrics (3, 4)						6,841
Total commercial	\$ 284,836	\$ 97,792	\$	58,298	\$ 22,116	\$ 13,649

Excludes \$928 million of loans accounted for under the fair value option.
 Excludes PCI loans.
 Service LTV percentages for PCI loans are calculated using the carrying value net of the related valuation allowance.
 Credit quality indicators are not reported for fully-insured loans as principal repayment is insured.

⁽¹⁾ Other internal credit metrics may include delinquency status, geography or other factors.
(2) Direct/indirect consumer includes \$42.8 billion of securities-based lending which is overcollateralized and therefore has minimal credit risk.

⁽¹⁾ Excludes \$4.8 billion of loans accounted for under the fair value option.
(2) U.S. small business commercial includes \$7.09 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 December 31, 2017, 98 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 factors.

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 Ioan. For additional information on impaired loans, see Note 1 – Summary of Significant Accounting Principles and Note $4\,$ Outstanding Loans and Leases to the Consolidated Financial Statements of the Corporation's 2017 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. Excluding PCI loans, 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 4 - Outstanding Loans and Leases to the Consolidated Financial Statements of the Corporation's 2017 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 \$951 million were included in TDRs at September 30, 2018, of which \$220 million were classified as nonperforming and \$362 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 September 30, 2018 and December 31, 2017, 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 \$265 million and \$236 million at September 30, 2018 and December 31, 2017. The carrying value of consumer real estate loans, including fully-insured and PCI loans, for which formal foreclosure proceedings were in process at September 30, 2018 was \$2.7 billion. During the three and nine months ended September 30, 2018, the Corporation reclassified \$186 million and \$505 million of consumer real estate loans to foreclosed properties or, for properties acquired upon foreclosure of certain governmentguaranteed loans (principally FHA-insured loans), to other assets. This compared to reclassifications of \$198 million and \$624 million for the same periods in 2017. The reclassifications represent non-cash investing activities and, accordingly, are not reflected in the Consolidated Statement of Cash Flows.

The table below provides the unpaid principal balance, carrying value and related allowance at September 30, 2018 and December 31, 2017, and the average carrying value and interest income recognized for the three and nine months ended September 30, 2018 and 2017 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

	P	Unpaid rincipal Salance		Carrying Value		Related Ilowance	Unpaid Principal Balance		Carrying Value	Related Allowance
(Dollars in millions)			Septe	mber 30, 201	18			Dec	ember 31, 2017	
With no recorded allowance										
Residential mortgage	\$	6,016	\$	4,783	\$	-	\$ 8,856	\$	6,870	\$ _
Home equity		3,345		1,828		_	3,622		1,956	_
With an allowance recorded										
Residential mortgage	\$	2,271	\$	2,215	\$	134	\$ 2,908	\$	2,828	\$ 174
Home equity		910		849		165	972		900	174
Total (1)										
Residential mortgage	\$	8,287	\$	6,998	\$	134	\$ 11,764	\$	9,698	\$ 174
Home equity		4,255		2,677		165	4,594		2,856	174

	C	werage arrying Value	In	terest come gnized (2)		Average Carrying Value	Re	Interest Income ecognized (2)	Average Carrying Value	1	nterest ncome ognized (2)		Average Carrying Value	R	Interest Income ecognized (2)
			Three	Months End	led Se	ptember 30				Nine	Months End	ded S	eptember 30		
			2018			2	017		2	018			2	2017	
With no recorded allowance															
Residential mortgage	\$	5,056	\$	52	\$	7,498	\$	77	\$ 5,685	\$	167	\$	7,964	\$	237
Home equity		1,908		27		2,000		27	1,937		79		2,001		82
With an allowance recorded															
Residential mortgage	\$	2,330	\$	22	\$	3,254	\$	29	\$ 2,508	\$	71	\$	3,565	\$	97
Home equity		864		7		873		6	879		19		850		18
Total (1)															
Residential mortgage	\$	7,386	\$	74	\$	10,752	\$	106	\$ 8,193	\$	238	\$	11,529	\$	334
Home equity		2,772		34		2,873		33	2,816		98		2,851		100

⁽¹⁾ During the nine months ended September 30, 2018, previously impaired consumer real estate loans with a carrying value of \$1.6 billion were sold.
(2) 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 September 30, 2018 and 2017 unpaid principal balance, carrying value, and average pre- and post-modification interest rates on consumer real estate loans that were modified in TDRs during the three and nine months ended September 30, 2018 and 2017. 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 and Nine Months Ended September 30, 2018 and 2017

	 d Principal alance	(Carrying Value	Pre-Modification Interest Rate	Post-Modification Interest Rate (1)	 id Principal Balance		Carrying Value	Pre-Modification Interest Rate	Post-Modification Interest Rate (1)
(Dollars in millions)		Three	Months Ende	d September 30, 2018	3		Ni	ne Months Ende	d September 30, 2018	3
Residential mortgage	\$ 226	\$	195	4.27%	4.12%	\$ 747	\$	635	4.22%	4.03%
Home equity	120		90	4.67	4.60	 482		356	4.42	3.78
Total (2)	\$ 346	\$	285	4.41	4.29	\$ 1,229	\$	991	4.30	3.94
		Т	hree Months Ende	ed September 30, 2017				Nine Months End	ed September 30, 2017	
Residential mortgage	\$ 294	\$	263	4.42%	4.33%	\$ 738	\$	657	4.49%	4.25%
Home equity	212		172	4.01	3.96	 630		491	4.16	3.52
Total (2)	\$ 506	\$	435	4.25	4.17	\$ 1,368	\$	1,148	4.33	3.90

The table below presents the September 30, 2018 and 2017 carrying value for consumer real estate loans that were modified in a TDR during the three and nine months ended September 30, 2018 and 2017, by type of modification.

Consumer Real Estate - Modification Programs

		TDRs Entered into During the										
	_	Three Months E	nded Se	ptember 30		Nine Months End	led Sep	tember 30				
(Dollars in millions)		2018		2017		2018		2017				
Modifications under government programs												
Contractual interest rate reduction	\$	5	\$	10	\$	19	\$	56				
Principal and/or interest forbearance		_		1		_		4				
Other modifications (1)		7		7		29		22				
Total modifications under government programs		12		18		48		82				
Modifications under proprietary programs												
Contractual interest rate reduction		7		15		159		178				
Capitalization of past due amounts		10		12		67		47				
Principal and/or interest forbearance		2		2		25		28				
Other modifications (1)		14		1		195		45				
Total modifications under proprietary programs		33		30		446		298				
Trial modifications		201		329		376		605				
Loans discharged in Chapter 7 bankruptcy (2)		39		58		121		163				
Total modifications	\$	285	\$	435	\$	991	\$	1,148				

⁽¹⁾ Includes other modifications such as term or payment extensions and repayment plans. During the nine months ended September 30, 2018, this included \$197 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 September 30, 2018.
(2) Includes loans discharged in Chapter 7 bankruptcy with no charge 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 the three and nine months ended September 30, 2018 and 2017 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

	Th	ree Months En	ded S	eptember 30	Nine Months En	ded Se	ptember 30
(Dollars in millions)		2018		2017	2018		2017
Modifications under government programs	\$	8	\$	16	\$ 32	\$	62
Modifications under proprietary programs		43		32	130		99
Loans discharged in Chapter 7 bankruptcy (1)		12		16	51		93
Trial modifications (2)		18		54	85		312
Total modifications	\$	81	\$	118	\$ 298	\$	566

Includes loans discharged in Chapter 7 bankruptcy with no change in repayment terms that are classified as TDRs
 Includes trial modification offers to which the customer did not respond.

⁽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.

(2) Nat charge offs, which include amounts recorded on loans modified during the period that are no longer held by the Corporation at September 30, 2018 and 2017 due to sales and other dispositions, were \$9 million and \$33 million for the three and nine months ended September 30, 2018 compared to \$17 million and \$37 million for the same periods in 2017.

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, local and international 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. For more information on the regulatory guidance on Ioans discharged in Chapter 7 bankruptcy, see Nonperforming Loans and Leases in this Note.

The table below provides the unpaid principal balance, carrying value and related allowance at September 30, 2018 and December 31, 2017, and the average carrying value and interest income recognized for the three and nine months ended September 30, 2018 and 2017 on TDRs within the Credit Card and Other Consumer portfolio

Impaired Loans - Credit Card and Other Consumer

	Unpai Princip Balan	pal		Carrying Value (1)		Related Allowance	 Unpaid Principal Balance		Carrying Value (1)	Related Allowance
(Dollars in millions)			Septe	ember 30, 201	L8			Dece	ember 31, 2017	
With no recorded allowance										
Direct/Indirect consumer	\$	63	\$	29	\$	-	\$ 58	\$	28	\$ _
With an allowance recorded										
U.S. credit card	\$	501	\$	512	\$	143	\$ 454	\$	461	\$ 125
Direct/Indirect consumer		_		-		-	1		1	_
Total										
U.S. credit card	\$	501	\$	512	\$	143	\$ 454	\$	461	\$ 125
Direct/Indirect consumer		63		29		-	59		29	_

	C	verage arrying Value	Red	Interest Income cognized (2) ee Months End	od Sa	Average Carrying Value	F	Interest Income Recognized (2)		Average Carrying Value		Interest Income cognized (2) ne Months Ende	-d 6-	Average Carrying Value	F	Interest Income Recognized (2)
			2018	se Months End	eu se	-	017		_		2018	ie Months Ende	su Je	-	017	
With no recorded allowance																
Direct/Indirect consumer	\$	30	\$	1	\$	20	\$	_	\$	29	\$	2	\$	19	\$	_
With an allowance recorded																
U.S. credit card	\$	498	\$	7	\$	457	\$	6	\$	481	\$	19	\$	466	\$	18
Non-U.S. credit card (3)		-		-		_		_		-		-		62		1
Direct/Indirect consumer		1		-		2		_		1		-		2		
Total																
U.S. credit card	\$	498	\$	7	\$	457	\$	6	\$	481	\$	19	\$	466	\$	18
Non-U.S. credit card (3)		_		_		_		_		_		_		62		1
Direct/Indirect consumer		31		1		22		_		30		2		21		_

(1) Includes accrued interest and fees.

12 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.

(3) In the second quarter of 2017, the Corporation sold its non-U.S. consumer credit card business.

The table below provides information on the Corporation's primary modification programs for the Credit Card and Other Consumer TDR portfolio at September 30, 2018 and December 31, 2017.

Credit Card and Other Consumer - TDRs by Program Type

		U.S. Cre	edit Card		Direct/Indir	ect Cons	sumer		Total TDRs by	y Progr	am Type
(Dollars in millions)	Sep	tember 30 2018	Dec	ember 31. 2017	September 30 2018	[December 31 2017	Se	ptember 30 2018		December 31 2017
Internal programs	\$	242	\$	203	\$ _	\$	1	\$	242	\$	204
External programs		269		257	_		_		269		257
Other		1		1	29		28		30		29
Total	\$	512	\$	461	\$ 29	\$	29	\$	541	\$	490
Percent of balances current or less than 30 days past due		86%		87%	90%		88%		86%		87%

The table below provides information on the Corporation's Credit Card and Other Consumer TDR portfolio including the September 30, 2018 and 2017 unpaid principal balance, carrying value, and average pre- and post-modification interest rates of loans that were modified in TDRs during the three and nine months ended September 30, 2018 and 2017.

Credit Card and Other Consumer - TDRs Entered into During the Three and Nine Months Ended September 30, 2018 and 2017

	_	Unpaid Principal Balance	Ca	rrying Value (1)	Pre-Modification Interest Rate	Post-Modification Interest Rate	id Principal Balance	Ca	rrying Value (1)	Pre-Modification Interest Rate	Post-Modification Interest Rate
(Dollars in millions)			Three	Months Ende	ed September 30, 20	18		Nine	Months Ende	d September 30, 20	18
U.S. credit card	\$	84	\$	91	19.45%	5.19%	\$ 212	\$	224	19.30%	5.24%
Direct/Indirect consumer		18		10	4.61	4.50	33		19	4.77	4.58
Total (2)	\$	102	\$	101	17.94	5.12	\$ 245	\$	243	18.16	5.19
	_		П	hree Months Ende	ed September 30, 2017			1	line Months Ende	ed September 30, 2017	
U.S. credit card	\$	60	\$	64	17.96%	5.40%	\$ 152	\$	161	17.88%	5.49%
Direct/Indirect consumer		22		14	4.92	4.53	29		18	4.99	4.37
Total (2)	\$	82	\$	78	15.64	5.25	\$ 181	\$	179	16.57	5.37

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 13 percent of new U.S. credit card TDRs and 16 percent of new direct/indirect consumer TDRs may be in payment default within 12 months after modification. Loans that entered into payment default during the three and nine months ended September 30, 2018 that had been modified in a TDR during the preceding 12 months were \$10 million and \$26 million for U.S. credit card and \$1 million and \$6 million for direct/indirect consumer. During the three and nine months ended September 30, 2017, loans that entered into payment default that had been modified in a TDR during the preceding 12

months were \$7 million and \$19 million for U.S. credit card and \$1 million and \$3 million for direct/indirect consumer.

Commercial Loans

Impaired commercial loans include nonperforming loans and TDRs (both performing and nonperforming). For more information on impaired commercial loans, see Note 4 -Outstanding Loans and Leases to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-K.

At September 30, 2018 and December 31, 2017, remaining commitments to lend additional funds to debtors whose terms have been modified in a commercial loan TDR were \$256 million and \$205 million.

Commercial foreclosed properties totaled \$30 million and \$52 million at September 30, 2018 and December 31, 2017.

⁽¹⁾ Includes accrued interest and fees.
(2) Net charge offs were \$16 million and \$38 million for the three and nine months ended September 30, 2018 compared to \$14 million and \$33 million for the same periods in 2017.

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 September 30, 2018 and December 31, 2017, and the average carrying value and interest income recognized for the three and nine months ended September 30, 2018 and 2017. 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

	Pri	npaid incipal alance		Carrying Value		Related Allowance	 Unpaid Principal Balance		Carrying Value	Related Allowance
(Dollars in millions)			Septe	ember 30, 201	L8			De	cember 31, 2017	
With no recorded allowance										
U.S. commercial	\$	697	\$	684	\$	_	\$ 576	\$	571	\$ _
Non-U.S. commercial		10		10		-	14		11	_
Commercial real estate		42		32		-	83		80	_
Commercial lease financing		2		2		-	_		_	_
With an allowance recorded										
U.S. commercial	\$	1,334	\$	1,073	\$	115	\$ 1,393	\$	1,109	\$ 98
Non-U.S. commercial		233		225		19	528		507	58
Commercial real estate		104		20		2	133		41	4
Commercial lease financing		72		72		_	20		18	3
U.S. small business commercial (1)		90		76		29	84		70	27
Total										
U.S. commercial	\$	2,031	\$	1,757	\$	115	\$ 1,969	\$	1,680	\$ 98
Non-U.S. commercial		243		235		19	542		518	58
Commercial real estate		146		52		2	216		121	4
Commercial lease financing		74		74		_	20		18	3
U.S. small business commercial (1)		90		76		29	84		70	27

	C	verage Carrying Value		Interest Income cognized (2)		Average Carrying Value	ı	Interest Income Recognized (2)	. <u></u>	Average Carrying Value	R	Interest Income ecognized (2)		Average Carrying Value		Interest Income Recognized (2)
			Thre	ee Months End	ed Se	eptember 30					N	line Months En	ded	September 30		
			2018			2	017			:	2018				2017	
With no recorded allowance																
U.S. commercial	\$	640	\$	4	\$	726	\$	3	\$	659	\$	12	\$	822	\$	9
Non-U.S. commercial		9		-		14		_		35		2		55		_
Commercial real estate		68		-		77		1		72		1		61		1
Commercial lease financing		3		-		_		_		4		-		_		_
With an allowance recorded																
U.S. commercial	\$	1,159	\$	11	\$	1,166	\$	9	\$	1,168	\$	32	\$	1,305	\$	25
Non-U.S. commercial		287		3		463		3		381		9		466		9
Commercial real estate		10		_		72		_		19		_		85		2
Commercial lease financing		58		1		10		_		32		1		6		_
U.S. small business commercial (1)		74		_		72		_		74		_		74		_
Total																
U.S. commercial	\$	1,799	\$	15	\$	1,892	\$	12	\$	1,827	\$	44	\$	2,127	\$	34
Non-U.S. commercial		296		3		477		3		416		11		521		9
Commercial real estate		78		-		149		1		91		1		146		3
Commercial lease financing		61		1		10		_		36		1		6		_
U.S. small business commercial ((1)	74		_		72		_		74		_		74		-

⁽¹⁾ Includes U.S. small business commercial renegotiated TDR loans and related allowence.
(2) 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 September 30, 2018 and 2017 unpaid principal balance and carrying value of commercial loans that were modified as TDRs during the three and nine months ended September 30, 2018 and 2017. 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 and Nine Months Ended September 30, 2018 and 2017

	Un	paid Principal Balance		Carrying Value	 Unpaid Principal Balance		Carrying Value
(Dollars in millions)	Т	hree Months Endec	l Septe	mber 30, 2018	Nine Months Ended	Sept	tember 30, 2018
U.S. commercial	\$	595	\$	544	\$ 1,111	\$	1,006
Non-U.S. commercial		11		9	4		4
Commercial real estate		_		_	71		71
Commercial lease financing		29		29	92		91
U.S. small business commercial (1)		3		2	8		6
Total (2)	\$	638	\$	584	\$ 1,286	\$	1,178

	 Three Months Ende	d Septe	ember 30, 2017	Nine Months Ended	d Septer	nber 30, 2017
U.S. commercial	\$ 357	\$	322	\$ 763	\$	700
Non-U.S. commercial	105		105	105		105
Commercial real estate	_		_	16		9
Commercial lease financing	12		12	12		12
U.S. small business commercial (1)	3		3	11		12
Total (2)	\$ 477	\$	442	\$ 907	\$	838

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 \$174 million and \$57 million for

U.S. commercial and \$4 million and \$32 million for commercial real estate at September 30, 2018 and 2017.

Purchased Credit-impaired Loans

The table below shows activity for the accretable yield on PCI loans. The reclassifications from nonaccretable difference during the three and nine months ended September 30, 2018 were primarily due to an increase in the expected principal and interest cash flows due to lower default estimates and the rising interest rate environment.

Rollforward of Accretable Yield

(Dollars in millions)	Months Ended mber 30, 2018	Months Ended ember 30, 2018
Accretable yield, beginning of period	\$ 2,558	\$ 2,789
Accretion	(117)	(371)
Disposals/transfers	(612)	(824)
Reclassifications from nonaccretable difference	56	291
Accretable yield, September 30, 2018	\$ 1,885	\$ 1,885

During the three and nine months ended September 30, 2018, the Corporation sold PCI loans with a carrying value of \$2.0 billion and \$2.1 billion. During the three and nine months ended September 30, 2017, the Corporation sold PCI loans with a carrying value of \$538 million and \$742 million. For more information on PCI loans, see Note 1 - Summary of Significant Accounting Principles and Note 4 - Outstanding Loans and Leases to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-K, and for the carrying value and valuation allowance for PCI loans, see Note 6 - Allowance for Credit Losses herein.

Loans Held-for-sale

The Corporation had LHFS of \$5.6 billion and \$11.4 billion at September 30, 2018 and December 31, 2017. For the nine months ended September 30, 2018 and 2017, cash and non-cash proceeds from sales and paydowns of loans originally classified as LHFS were \$23.4 billion and \$28.0 billion, and cash used for originations and purchases of LHFS totaled \$16.8 billion and \$31.4 billion.

 ⁽¹⁾ U.S. small business commercial TDRs are comprised of renegotiated small business card loans.
 (2) Net charge offs were \$38 million and \$64 million for the three and nine months ended September 30, 2018 compared to \$27 million and \$89 million for the same periods in 2017.

NOTE 6 Allowance for Credit Losses

The table below summarizes the changes in the allowance for credit losses by portfolio segment for the three and nine months ended September 30, 2018 and 2017.

	R	Consumer eal Estate (1)	Other (Card and Consumer		Commercial		Total Allowance
(Dollars in millions)			Three M	lonths Ende	d Sept	ember 30, 2018		
Allowance for loan and lease losses, July 1	\$	1,366	\$	3,774	\$	4,910	\$	10,050
Loans and leases charged off		(155)		(992)		(189)		(1,336
Recoveries of loans and leases previously charged off		163		208		33		404
Net charge-offs		8		(784)		(156)		(932
Write-offs of POI loans (2)		(95)		-		-		(95
Provision for loan and lease losses (3)		(119)		829		1		711
Other (4)		(2)		3		(1)		_
Allowance for loan and lease losses, September 30		1,158		3,822		4,754		9,734
Reserve for unfunded lending commitments, July 1		-		-		787		787
Provision for unfunded lending commitments		_		-		5		5
Reserve for unfunded lending commitments, September 30		_		_		792		792
Allowance for credit losses, September 30	\$	1,158	\$	3,822	\$	5,546	\$	10,526
			Thre	e Months Ende	ed Septe	mber 30, 2017		
Allowance for loan and lease losses, July 1	\$	2,309	\$	3,386	\$	5,180	\$	10,875
Loans and leases charged off	•	(231)	•	(919)		(212)		(1,362
Recoveries of loans and leases previously charged off		230		189		43		462
Net charge-offs		(1)		(730)		(169)		(900
Write-offs of PO loans (2)		(73)		(100)		(250)		(73
Provision for loan and lease losses (3)		(204)		934		99		829
Other (4)		1		(40)		1		(38
Allowance for loan and lease losses, September 30		2,032		3,550		5,111		10,693
Reserve for unfunded lending commitments, July 1		2,002		3,330		757		757
Provision for unfunded lending commitments, July 1		_		_		5		5
Reserve for unfunded lending commitments, September 30						762		762
Allowance for credit losses, September 30	\$	2,032	\$	3,550	\$	5,873	\$	11,455
	*					<u> </u>		14,100
Allowance for loan and lease losses, January 1	\$	1,720	Nine M	onths Ended 3,663	i Septe \$	5,010	\$	10,393
Loans and leases charged off		(466)		(3,031)		(513)		(4,010
Recoveries of loans and leases previously charged off		440		621		110		1,171
Net charge-offs		(26)		(2,410)		(403)		(2,839)
Write-offs of PCI loans (2)		(166)				_		(166
Provision for loan and lease losses (3)		(368)		2.583		147		2.362
Other (4)		(2)		(14)				(16
Allowance for loan and lease losses, September 30		1,158		3,822		4,754		9,734
Reserve for unfunded lending commitments, January 1				-		777		777
Provision for unfunded lending commitments		_		_		15		15
Reserve for unfunded lending commitments, September 30		_		_		792		792
Allowance for credit losses, September 30	\$	1,158	\$	3,822	\$	5,546	\$	10,526
Alemande for Great 10000, September Co	•	2,200		0,022		0,010		10,020
Allowance for loan and lease losses, January 1	\$	2,750	Nine \$	Months Ende	d Septer \$	mber 30, 2017 5,258	\$	11,237
Loans and leases charged off	Ψ	(633)	Ψ	(2,819)	Ψ	(570)	φ	(4,022
Recoveries of loans and leases previously charged off		520		(2,819)		(570)		1,280
Net charge-offs		(113)		(2,196)		(433)		(2,742
Write-offs of PO loans (2)								
		(161)				207		(161
Provision for loan and lease losses (3)		(445)		2,553		287		2,395
Other (4)		1 2000		(36)		(1)		(36
Allowance for loan and lease losses, September 30		2,032		3,550		5,111		10,693
Reserve for unfunded lending commitments, January 1 and September 30						762		762
Allowance for credit losses, September 30	\$	2,032	\$	3,550	\$	5,873	\$	11,4

⁽³⁾ Includes valuation allowance associated with the PCI loan portfolio.
(2) Includes write offs associated with the sale of PCI loans of \$71 million and \$88 million during the three and nine months ended September 30, 2018 compared to \$45 million and \$80 million for the same periods in 2017.
(3) Includes provision expense associated with the PCI loan portfolio of \$53 million and \$28 million during the three and nine months ended September 30, 2018 compared to \$45 million and \$56 million for the same periods in 2017.
(4) Primarily represents the net impact of portfolio sales, consolidations and deconsolidations, foreign currency translation adjustments, transfers to held for sale and certain other reclassifications.

Allowance and Carrying Value by Portfolio Segment

		Consumer Real Estate	dit Card and er Consumer		Commercial		Total
(Dollars in millions)			Septemb	er 30), 2018		
Impaired loans and troubled debt restructurings (1)							
Allowance for loan and lease losses	\$	299	\$ 143	\$	165	\$	607
Carrying value (2)		9,675	541		2,194		12,410
Allowance as a percentage of carrying value		3.09%	26.43%		7.52%		4.89%
Loans collectively evaluated for impairment							
Allowance for loan and lease losses	\$	709	\$ 3,679	\$	4,589	\$	8,977
Carrying value (2, 3)		242,594	185,829		476,085		904,508
Allowance as a percentage of carrying value (3)		0.29%	1.98%		0.96%		0.99%
Purchased credit-impaired loans							
Valuation allowance	\$	150	n/a		n/a	\$	150
Carrying value gross of valuation allowance		7,152	n/a		n/a		7,152
Valuation allowance as a percentage of carrying value		2.10%	n/a		n/a		2.10%
Total							
Allowance for loan and lease losses	\$	1,158	\$ 3,822	\$	4,754	\$	9,734
Carrying value (2, 3)		259,421	186,370		478,279		924,070
Allowance as a percentage of carrying value (3)		0.45%	2.05%		0.99%		1.05%
	_		Decemb	er 31,	2017		
Impaired loans and troubled debt restructurings (1)						_	
Allowance for loan and lease losses	\$	348	\$ 125	\$	190	\$	663
Carrying value (2)		12,554	490		2,407		15,451
Allowance as a percentage of carrying value		2.77%	25.51%		7.89%		4.29%
Loans collectively evaluated for impairment						_	
Allowance for loan and lease losses	\$	1,083	\$ 3,538	\$	4,820	\$	9,441
Carrying value (2, 3)		238,284	192,303		474,284		904,871
Allowance as a percentage of carrying value (3)		0.45%	184%		1.02%		1.04%
Purchased credit-impaired loans			,		,		200
Valuation allowance	\$	289	n/a		n/a	\$	289
Carrying value gross of valuation allowance		10,717	n/a		n/a		10,717
Valuation allowance as a percentage of carrying value		2.70%	n/a		n/a		2.70%
Total						_	
Allowance for loan and lease losses	\$	1,720	\$ 3,663	\$	5,010	\$	10,393
Carrying value (2, 3)		261,555	192,793		476,691		931,039
Allowance as a percentage of carrying value (3) (1) Imprired lears include monerforming commercial lears and all TDPs including both commercial and		0.66%	1.90%		1.05%		1.12%

⁽¹⁾ Impaired loans include nonperforming commercial loans and 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 \$5.7 billion at both September 30, 2018 and December 31, 2017.

n/a = not applicable

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 MEs at September 30, 2018 and December 31, 2017 where the Corporation has continuing involvement with transferred assets or if the Corporation otherwise has a variable interest in the VIE. For additional information on the Corporation's use of VIEs and related maximum loss exposure, see Note 1 - Summary of Significant Accounting Principles and Note 6 - Securitizations and Other Variable Interest Entities to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form

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.

Except as described below, the Corporation did not provide financial support to consolidated or unconsolidated VIEs during the nine months ended September 30, 2018 or the year ended December 31, 2017 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 \$271 million and \$442 million at September 30, 2018 and December 31, 2017.

First-lien Mortgage Securitizations

First-lien Mortgages

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 below and in Note 10 - 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 and nine months ended September 30, 2018 and 2017.

First-lien Mortgage Securitizations

			R	esidential Mo	rtgag	e - Agency						Commercia	al Mo	rtgage		
	Thre	e Months En	ided S	eptember 30	Nir	ne Months End	ded S	eptember 30	Thre	ee Months En	ded S	September 30	Ni	ne Months End	ied Se	ptember 30
(Dollars in millions)		2018		2017		2018		2017		2018		2017		2018		2017
Cash proceeds from new securitizations (1)	\$	1,596	\$	3,833	\$	4,661	\$	11,791	\$	1,797	\$	1,225	\$	3,981	\$	2,931
Gains on securitizations (2)		13		40		54		140		29		14		68		67
Repurchases from securitization trusts (3)		357		609		1,215		2,083		_		_		_		_

(a) The Corporation transfers residential mortgage loans to securitizations sponsored by the GSEs or Covernment National Mortgage Association (GNMs) in the normal course of business and receives RMBS in exchange which may then be sold into the market to thirdyary investors for cash proceeds.

2 Amajority of the first-lien residential mortgage loans securitizate are initially classified as LHFS and accounted for under the fair value option. Gains recognized on these LHFS prior to securitization, which totaled \$15 million and \$60 million, net of hedges, during the three and nine morths ended September 30, 2018, compared to \$63 million and \$195 million for the same periods in 2017, are not included in the table above.

3) The Corporation may have the option to repurchese delinguent 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 GNMs securities.

In addition to cash proceeds as reported in the table above, the Corporation received securities with an initial fair value of \$169 million and \$566 million in connection with first-lien mortgage securitizations for the three and nine months ended September 30, 2018, compared to \$770 million and \$1.3 billion for the same periods in 2017. The receipt of these securities represents non-cash operating and investing activities and, accordingly, is not reflected in the Consolidated Statement of Cash Flows. Substantially all of these securities were initially classified as Level 2 assets within the fair value hierarchy. During the three and nine months ended September 30, 2018 and 2017, there were no changes to the initial classification.

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 \$234.4 billion and \$289.3 billion at September 30, 2018 and 2017. Servicing fee and ancillary fee income on serviced loans was \$168 million and \$546 million during the three and nine months ended September 30, 2018, compared to \$213 million and \$691 million for the same periods in 2017. Servicing advances on serviced loans, including loans serviced for others and loans held for investment, were \$3.5 billion and \$4.5 billion at September 30, 2018 and December 31, 2017. For more information on MSRs, see Note 14 - Fair Value Measurements.

During the three and nine months ended September 30, 2018 and 2017, there were no significant deconsolidations of agency residential mortgage securitizations.

The table below summarizes select information related to first-lien mortgage securitization trusts in which the Corporation held a variable interest at September 30, 2018 and December 31, 2017.

First-lien Mortgage VIEs

								Residentia	al Mort	tgage										
										Non-	ageno	у								
		Ag	ency			P	rime			Sub	prim	В		А	lt-A			Commerc	ial Mo	rtgage
(Dollars in millions)	Se	pt 30 2018	D	ecember 31 2017	Sen	it 30 2018		ecember 31 2017	Ser	nt 30 2018	D	ecember 31 2017	Sei	pt 30 2018	С	ecember 31 2017	Sei	pt 30 2018		cember 31 2017
Unconsolidated VIEs		pt 00 2020		2017		. 00 2010		2011	00,	X 00 2010		2017	00	pt 00 2020		2017	00,	A 00 2010		2011
Maximum loss exposure (1)	\$	16,461	\$	19,110	\$	458	\$	689	\$	2,063	\$	2,643	\$	218	\$	403	\$	659	\$	585
On-balance sheet assets																				
Senior securities:																				
Trading account assets	\$	509	\$	716	\$	21	\$	6	\$	47	\$	10	\$	71	\$	50	\$	57	\$	108
Debt securities carried at fair value		10,232		15,036		262		477		1,592		2,221		145		351		_		_
Held-to-maturity securities		5,720		3,348		_		_		_		_		_		_		419		274
All other assets (2)		-		10		3		5		66		38		2		2		44		88
Total retained positions	\$	16,461	\$	19,110	\$	286	\$	488	\$	1,705	\$	2,269	\$	218	\$	403	\$	520	\$	470
Principal balance outstanding	\$	195,110	\$	232,761	\$	9,448	\$	10,549	\$	9,156	\$	10,254	\$	24,439	\$	28,129	\$	31,251	\$	26,504
Consolidated VIEs																				
Maximum loss exposure (1)	\$	13,206	\$	14,502	\$	551	\$	571	\$	_	\$		\$		\$		\$		\$	
On-balance sheet assets																				
Trading account assets	\$	733	\$	232	\$	704	\$	571	\$	_	\$	_	\$	_	\$	-	\$	_	\$	-
Loans and leases, net		12,312		14,030		_		_		_		_		_		-		_		_
All other assets		162		240		_		_		_		_		_		_		_		_
Total assets	\$	13,207	\$	14,502	\$	704	\$	571	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_

¹⁵³ \$

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 at September 30, 2018 and December 31, 2017.

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

		Home Equity ⁽¹⁾			Credit Ca	ard ^(2, 3)	Resecuritization Trusts					Municipal Bond Trusts				
			December 31			December 31			De	cember 31	_		December 31			
(Dollars in millions)	Sep	t 30 2018	2017	Se	pt 30 2018	2017	Se	ept 30 2018		2017	Se	pt 30 2018	2017			
Unconsolidated VIEs																
Maximum loss exposure	\$	1,101	\$ 1,522	\$	_	\$ –	\$	8,185	\$	8,204	\$	1,837	\$ 1,631			
On-balance sheet assets																
Senior securities (4):																
Trading account assets	\$	_	\$ -	\$	_	\$ -	\$	1,757	\$	869	\$	22	\$ 33			
Debt securities carried at fair value		29	36		_	-		1,380		1,661		-	_			
Held-to-maturity securities		_	-		_	-		5,048		5,644		_	_			
All other assets (4)		_	_		_	_		_		30		-	_			
Total retained positions	\$	29	\$ 36	\$	_	\$ –	\$	8,185	\$	8,204	\$	22	\$ 33			
Total assets of VIEs (5)	\$	1,944	\$ 2,432	\$	_	\$ -	\$	18,469	\$	19,281	\$	2,560	\$ 2,287			
Consolidated VIEs																
Maximum loss exposure	\$	91	\$ 112	\$	18,600	\$ 24,337	\$	109	\$	628	\$	1,726	\$ 1,453			
On-balance sheet assets																
Trading account assets	\$	_	\$ -	\$	_	\$ -	\$	376	\$	1,557	\$	1,740	\$ 1,452			
Loans and leases		143	177		29,726	32,554		_		_		_	_			
Allowance for Ioan and lease losses		(6)	(9)		(907)	(988)		_		_		_	_			
All other assets		4	6		128	1,385		_		_		1	1			
Total assets	\$	141	\$ 174	\$	28,947	\$ 32,951	\$	376	\$	1,557	\$	1,741	\$ 1,453			
On-balance sheet liabilities																
Short-term borrowings	\$	_	\$ -	\$	_	\$ -	\$	_	\$	_	\$	905	\$ 312			
Long-term debt		59	76		10,320	8,598		267		929		12	_			
All other liabilities		_	_		27	16		_		_		_	_			

Total liabilities \$ **59** \$ 76 \$ 10,347 \$ 8,614 \$ 267 \$ 929 \$ 917 \$ 312 10 Total Habilities

10 Total

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Home Equity Loans

The Corporation retains interests in home equity securitization trusts to which it transferred home equity loans. These retained interests primarily include senior securities. 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 (HELOCs), performance of the loans, the amount of subsequent draws and the timing of related cash flows.

There were no deconsolidations of HELOC trusts during the nine months ended September 30, 2018 and 2017.

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 nine months ended September 30, 2018 and 2017, new senior debt securities issued to third-party investors from the credit card securitization trust were \$4.0 billion and \$3.1 billion.

At September 30, 2018 and December 31, 2017, the Corporation held subordinate securities issued by the credit card securitization trust with a notional principal amount of \$7.7 billion and \$7.4 billion. These securities serve as a form of credit enhancement to the senior debt securities and have a stated interest rate of zero percent. There were \$650 million and \$500 million of these subordinate securities issued during the nine months ended September 30, 2018 and 2017.

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 \$7.7 billion and \$21.3 billion of securities during the three and nine months ended September 30, 2018 compared to \$5.0 billion and \$20.1 billion for the same periods in 2017. Securities transferred into resecuritization VIEs during the three and nine months ended September 30, 2018 and 2017 were measured at fair value with changes in fair value recorded in trading account profits prior to the resecuritization and no gain or loss on sale was recorded. Resecuritization proceeds included securities with an initial fair value of \$1.5 billion and \$3.7 billion during the three and nine months ended September 30, 2018 compared to \$855 million and \$2.7 billion for the same periods in 2017. 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 \$1.8 billion and \$1.6 billion at September 30, 2018 and December 31, 2017. The weighted-average remaining life of bonds held in the trusts at September 30, 2018 was 6.3 years. There were no material write-downs or downgrades of assets or issuers during the nine months ended September 30, 2018 and 2017.

Other Variable Interest Entities

The table below summarizes select information related to other VEs in which the Corporation held a variable interest at September 30, 2018 and December 31, 2017.

Other VIEs

		Consolidated	Ur	consolidated		Total	Consolidated	-	Unconsolidated		Total
(Dollars in millions)			Sept	ember 30, 2018	3			D∈	ecember 31, 2017		
Maximum loss exposure	•	4,407	\$	21,188	\$	25,595	\$ 4,660	\$	19,785	\$	24,445
On-balance sheet assets											
Trading account assets	•	2,592	\$	331	\$	2,923	\$ 2,709	\$	346	\$	3,055
Debt securities carried at fair value		-	•	20		20	_		160		160
Loans and leases		1,977	,	4,155		6,132	2,152		3,596		5,748
Allowance for loan and lease losses		(2	2)	(29)		(31)	(3)		(32)		(35)
All other assets		62	<u>!</u>	15,300		15,362	89		15,216		15,305
Total	•	4,629	\$	19,777	\$	24,406	\$ 4,947	\$	19,286	\$	24,233
On-balance sheet liabilities											
Longterm debt	•	213	\$	_	\$	213	\$ 270	\$	_	\$	270
All other liabilities		10)	4,067		4,077	18		3,417		3,435
Total	•	223	\$	4,067	\$	4,290	\$ 288	\$	3,417	\$	3,705
Total assets of VIEs	4	4,629	\$	79,564	\$	84,193	\$ 4,947	\$	69,746	\$	74,693

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 \$2.2 billion and \$2.3 billion at September 30, 2018 and December 31, 2017, 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 \$433 million and \$358 million at September 30, 2018 and December 31, 2017.

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 September 30, 2018 and December 31, 2017, the Corporation's consolidated investment VIEs had total assets of \$337 million and \$249 million. The Corporation also held investments in unconsolidated VIEs with total assets of \$29.2 billion and \$20.3 billion at September 30, 2018 and December 31, 2017 . The Corporation's maximum loss exposure associated with both consolidated and unconsolidated investment VIEs totaled \$6.2 billion and \$5.7 billion at September 30, 2018 and December 31, 2017 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 and \$2.0 billion at September 30, 2018 and December 31, 2017. 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 nonrecourse 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 ME. 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 \$14.7 billion and \$13.8 billion at September 30, 2018 and December 31, 2017. 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 \$8.4 billion and \$8.0 billion, including unfunded commitments to provide capital contributions of \$3.6 billion and \$3.1 billion at September 30, 2018 and December 31, 2017. 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 \$265 million and \$750 million, and reported pretax losses in other noninterest income of \$215 million and \$640 million for the three and nine months ended September 30, 2018. For the same periods in 2017, the Corporation recognized tax credits and other tax benefits of \$293 million and \$825 million, and pretax losses of \$209 million and \$612 million. 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 September 30, 2018 and December 31, 2017. 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 2017 Annual Report on Form 10-K.

Goodwill

(Dollars in millions)	Sep	tember 30 2018	[December 31 2017
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

The table below presents the gross and net carrying values and accumulated amortization for intangible assets at September 30, 2018 and December 31, 2017.

Intangible Assets (1, 2)

	Car	Gross rying Value		ccumulated mortization	c	Net arrying Value	Gross Carrying Value		Accumulated Amortization	Net Carrying Value
(Dollars in millions)			Sept	ember 30, 201 8	3			De	ecember 31, 2017	
Purchased credit card and affinity relationships	\$	5,919	\$	5,721	\$	198	\$ 5,919	\$	5,604	\$ 315
Core deposit and other intangibles (3)		3,835		2,201		1,634	3,835		2,140	1,695
Customer relationships		3,886		3,810		76	3,886		3,584	302
Total intangible assets	\$	13,640	\$	11,732	\$	1,908	\$ 13,640	\$	11,328	\$ 2,312

Excludes fully amortized intengitile assets.
 At September 30, 2018 and December 31, 2017, none of the intangible assets were impaired.
 Includes \$1.6 billion at both September 30, 2018 and December 31, 2017 of intangible assets associated with trade names that have an indefinite life and, accordingly, are not amortized.

Amortization of intangibles expense was \$134 million and \$404 million for the three and nine months ended September 30, 2018 compared to \$151 million and \$473 million for the same periods in 2017. The Corporation estimates aggregate amortization expense will be \$134 million for the remainder of 2018, \$105 million for 2019, \$53 million for 2020 and none for the years thereafter.

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NOTE 9 Federal Funds Sold or Purchased, Securities Financing Agreements, Short-term Borrowings and Restricted

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 shortterm borrowings under the fair value option. For more information on the fair value option, see Note 15 - Fair Value Option.

	Amount	Rate		Amount	Rate	Amount	Rate		Amount	Rate
	Thr	ee Months End	ed S	eptember 30		Ni	ne Months End	ed S	eptember 30	
(Dollars in millions)	2018			201	7	2018	3		2017	
Federal funds sold and securities borrowed or purchased under agreements to resell										
Average during period	\$ 241,426	1.31%	\$	223,585	0.86%	\$ 247,183	1.15%	\$	222,255	0.77%
Maximum month-end balance during period	267,989	n/a		224,815	n/a	267,989	n/a		237,064	n/a
Federal funds purchased and securities loaned or sold under agreements to repurchase										
Average during period	\$ 191,693	1.88%	\$	197,794	1.37%	\$ 193,854	1.71%	\$	199,433	1.18%
Maximum month-end balance during period	189,206	n/a		197,604	n/a	199,419	n/a		218,017	n/a
Short-term borrowings										
Average during period	33,410	2.89		32,153	2.54	40,048	2.49		38,329	2.43
Maximum month-end balance during period	36,043	n/a		32,679	n/a	52,480	n/a		46,202	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. Substantially all of the Corporation's securities financing activities are transacted under legally enforceable master repurchase agreements or legally enforceable master securities lending agreements that give the Corporation, in the event of default by the counterparty, the right to liquidate securities held and to offset receivables and payables with the same counterparty. The Corporation offsets securities financing transactions with the same counterparty on the Consolidated Balance Sheet where it has such a legally enforceable master

netting agreement and the transactions have the same maturity date.

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 September 30, 2018 and December 31, 2017. 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

	Gross Assets/Liabilities (1)			mounts Offset	Net Balance Sheet Amount			Financial estruments (2)	Asse	Net ts/Liabilities	
(Dollars in millions)		September 30, 2018									
Securities borrowed or purchased under agreements to resell (3)	\$	373,800	\$	(125,563)	\$	248,237	\$	(218,291)	\$	29,946	
Securities loaned or sold under agreements to repurchase	\$	297,163	\$	(125,563)	\$	171,600	\$	(151,842)	\$	19,758	
Other (4)		24,446		_		24,446		(24,446)		_	
Total	\$	321,609	\$	(125,563)	\$	196,046	\$	(176,288)	\$	19,758	
					De	cember 31, 2017					
Securities borrowed or purchased under agreements to resell (3)	\$	348,472	\$	(135,725)	\$	212,747	\$	(165,720)	\$	47,027	
Securities loaned or sold under agreements to repurchase	\$	312,582	\$	(135,725)	\$	176,857	\$	(146,205)	\$	30,652	
Other (4)		22,711		_		22,711		(22,711)		_	
Total	\$	335,293	\$	(135,725)	\$	199,568	\$	(168,916)	\$	30,652	

⁽¹⁾ Includes activity where uncertainty exists as to the enforceability of certain master netting agreements under bankruptcy laws in some countries or inclustries.
(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.
(a) Evidues repurchase activity of \$1.1.1. billion and \$1.0.2 billion reported in loans and leases 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.

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.

Remaining Contractual Maturity

				Se	ptember 30, 2018		
(Dollars in millions)	ernight and ontinuous	:	30 Days or Less		After 30 Days Through 90 Days	Greater than 90 Days (1)	Total
Securities sold under agreements to repurchase	\$ 128,222	\$	68,852	\$	22,920	\$ 58,089	\$ 278,083
Securities loaned	13,364		738		896	4,082	19,080
Other	24,446		_		_	_	24,446
Total	\$ 166,032	\$	69,590	\$	23,816	\$ 62,171	\$ 321,609
				ı	December 31, 2017		
Securities sold under agreements to repurchase	\$ 125,956	\$	79,913	\$	46,091	\$ 38,935	\$ 290,895
Securities loaned	9,853		5,658		2,043	4,133	21,687
Other	22,711		_		_	_	22,711
Total	\$ 158,520	\$	85,571	\$	48,134	\$ 43,068	\$ 335,293
(1) No agreements have maturities greater than three years.							

Class of Collateral Pledged

		September 30, 2018												
(Dollars in millions)	A	Securities Sold Under Agreements to Repurchase		Securities Loaned		Other		Total						
U.S. government and agency securities	\$	158,567	\$	10	\$	2	\$	158,579						
Corporate securities, trading loans and other		13,448		2,656		363		16,467						
Equity securities		17,268		10,953		24,028		52,249						
Non-U.S. sovereign debt		84,435		5,461		53		89,949						
Mortgage trading loans and ABS		4,365		_		_		4,365						
Total	\$	278,083	\$	19,080	\$	24,446	\$	321,609						
				Decemb	er 31, 20:	17								
U.S. government and agency securities	\$	158,299	\$	_	\$	409	\$	158,708						
Corporate securities, trading loans and other		12,787		2,669		624		16,080						
Equity securities		23,975		13,523		21,628		59,126						
Non-U.S. sovereign debt		90,857		5,495		50		96,402						
Mortgage trading loans and ABS		4,977		_		-		4,977						
Total	\$	290,895	\$	21,687	\$	22,711	\$	335,293						

Under repurchase agreements, the Corporation is required to post collateral with a market value equal to or in excess of the principal amount borrowed. For securities loaned transactions, the Corporation receives collateral in the form of cash, letters of credit or other securities. To determine whether the market value of the underlying collateral remains sufficient, collateral is generally valued daily, and the Corporation may be required to deposit additional collateral or may receive or return collateral pledged when appropriate. Repurchase agreements and securities loaned transactions are generally either overnight, continuous (i.e., no stated term) or short-term. The Corporation manages liquidity risks

related to these agreements by sourcing funding from a diverse group of counterparties, providing a range of securities collateral and pursuing longer durations, when appropriate.

Restricted Cash

At September 30, 2018 and December 31, 2017, the Corporation held restricted cash included within cash and cash equivalents on the Consolidated Balance Sheet of \$18.3 billion and \$18.8 billion, predominantly related to cash segregated in compliance with securities regulations and cash held on deposit with the Federal Reserve and non-U.S. central banks to meet reserve requirements.

NOTE 10 Commitments and Contingencies

In the normal course of business, the Corporation enters into a number of off-balance 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 2017 Annual Report on Form 10-K.

Credit Extension Commitments

The Corporation enters into commitments to extend credit such as loan commitments, 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 \$10.8 billion and \$11.0 billion at September 30, 2018 and December 31, 2017 . At September 30, 2018, the carrying value of these commitments, excluding commitments accounted for under the fair value option, was \$808 million,

including deferred revenue of \$16 million and a reserve for unfunded lending commitments of \$792 million. At December 31, 2017, the comparable amounts were \$793 million, \$16 million and \$777 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 following table also includes the notional amount of commitments of \$3.2 billion and \$4.8 billion at September 30, 2018 and December 31, 2017 that are accounted for under the fair value option. However, the following table excludes cumulative net fair value of \$70 million and \$120 million at September 30, 2018 and December 31, 2017 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 15 – Fair Value Option.

Credit Extension Commitments

		Expire in One Year or Less	Expire After One Year Through Three Years		Expire After Three Years Through Five Years	Expire After Five Years	Total
(Dollars in millions)				S	eptember 30, 2018		
Notional amount of credit extension commitments							
Loan commitments	\$	86,501	\$ 142,327	\$	154,991	\$ 22,724	\$ 406,543
Home equity lines of credit		3,203	2,494		3,115	34,411	43,223
Standby letters of credit and financial guarantees (1)		20,653	9,838		2,555	1,151	34,197
Letters of credit		1,262	223		74	73	1,632
Legally binding commitments		111,619	154,882		160,735	58,359	485,595
Credit card lines (2)		373,295	_		_	_	373,295
Total credit extension commitments	\$	484,914	\$ 154,882	\$	160,735	\$ 58,359	\$ 858,890
					December 31, 2017		
Notional amount of credit extension commitments	-						
Loan commitments	\$	85,804	\$ 140,942	\$	147,043	\$ 21,342	\$ 395,131
Home equity lines of credit		6,172	4,457		2,288	31,250	44,167
Standby letters of credit and financial guarantees (1)		19,976	11,261		3,420	1,144	35,801
Letters of credit		1,291	117		129	87	1,624
Legally binding commitments		113,243	156,777		152,880	53,823	476,723
Credit card lines (2)		362,030	_		_	_	362,030
Total credit extension commitments	\$	475,273	\$ 156,777	\$	152,880	\$ 53,823	\$ 838,753

⁽¹⁾ The notional amounts of SBLCs and financial guarantees classified as investment grade and non-investment grade based on the credit quality of the underlying reference name within the instrument were \$26.9 billion and \$6.9 billion at September 30, 2018 and December 31, 2017. Amounts in the table include consumer SBLCs of \$402 million and \$421 million at September 30, 2018 and December 31, 2017.

(2) Includes bis.insess card unused lines of credit.

Other Commitments

At September 30, 2018 and December 31, 2017, the Corporation had commitments to purchase loans (e.g., residential mortgage and commercial real estate) of \$341 million and \$344 million, and commitments to purchase commercial loans of \$764 million and \$994 million, which upon settlement will be included in loans or LHFS.

At September 30, 2018 and December 31, 2017, the Corporation had commitments to purchase commodities, primarily liquefied natural gas, of \$1.7 billion and \$1.5 billion, which upon settlement will be included in trading account assets.

At September 30, 2018 and December 31, 2017, the Corporation had commitments to enter into resale and forward-dated resale and securities borrowing agreements of \$80.2 billion and \$56.8 billion, and commitments to enter into forward-dated

repurchase and securities lending agreements of \$40.3 billion and \$34.3 billion. These commitments expire primarily within the next 15 months.

At both September 30, 2018 and December 31, 2017, the Corporation had a commitment to originate or purchase up to \$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. In addition, at December 31, 2017, the Corporation had a commitment to purchase a maximum of \$345 million of retail automobile loans from certain auto loan originators, which was terminated in the first quarter of 2018.

The Corporation is a party to operating leases for certain of its premises and equipment. Commitments under these leases are approximately \$600 million, \$2.3 billion, \$2.1 billion, \$1.9 billion

and \$1.6 billion for the remainder of 2018 and the years through 2022, respectively, and \$6.3 billion in the aggregate for all years thereafter.

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 both September 30, 2018 and December 31, 2017, the notional amount of these guarantees totaled \$10.4 billion, and the Corporation's maximum exposure related to these guarantees totaled \$1.6 billion at both period ends, 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, as the sponsor, could be held liable for the disputed amount. For the three and nine months ended September 30, 2018, the sponsored entities processed and settled \$220.0 billion and \$646.9 billion of transactions and recorded losses of \$6 million and \$23 million. For the same periods in 2017, the sponsored entities processed and settled \$200.4 billion and \$591.8 billion of transactions and recorded losses of \$7 million and \$22 million. A significant portion of this activity was processed by a joint venture in which the Corporation holds a 49 percent ownership. The carrying value of the Corporation's investment in the merchant services joint venture was \$2.8 billion and \$2.9 billion at September 30, 2018 and December 31, 2017, and is recorded in other assets on the Consolidated Balance Sheet and in *All Other*.

At September 30, 2018 and December 31, 2017, the maximum potential exposure for sponsored transactions totaled \$363.0 billion and \$346.4 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.

Representations and Warranties Obligations and Corporate Guarantees

For information on representations and warranties obligations and corporate guarantees and the related reserve and estimated range of possible loss, see Note 7 – Representations and Warranties Obligations and Corporate Guarantees to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-14.

The reserve for representations and warranties and corporate guarantees was \$2.0 billion and \$1.9 billion at September 30, 2018 and December 31, 2017 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.

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 \$6.0 billion and \$5.9 billion at September 30, 2018 and December 31, 2017. The estimated maturity dates of these obligations extend up to 2040. The Corporation has made no material payments under these guarantees.

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.

Payment Protection Insurance Claims Matter

On June 1, 2017, the Corporation sold its non-U.S. consumer credit card business. Included in the calculation of the gain on sale, the Corporation recorded an obligation to indemnify the purchaser for substantially all payment protection insurance exposure above reserves assumed by the purchaser.

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 supplements the disclosure in Note 12 – Commitments and Contingencies to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-K and in Note 10 – Commitments and Contingencies to the Consolidated Financial Statements of the Corporation's Quarterly Reports on Form 10-Q for the quarters ended June 30, 2018 and March 31, 2018 (the prior commitments and contingencies disclosure).

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 what the eventual outcome of pending or threatened matters will be, what the timing of the ultimate resolution of these matters will be, or what the eventual loss, fines or penalties related to each matter may be.

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 \$90 million and \$292 million was recognized for the three and nine months ended September 30, 2018 compared to \$140 million and \$606 million for the same periods in 2017.

For a limited number of the matters disclosed in this Note, and in the prior commitments and contingencies disclosure, 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. 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 matters where an estimate of the range of possible loss is reasonably possible, management currently estimates the aggregate range of possible loss is \$0 to \$1.2 billion in excess of the accrued liability, if any, related to those matters. 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.

Based on current knowledge, management does not believe that loss contingencies arising from pending matters, including the matters described herein and in the prior commitments and contingencies disclosure, 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.

LIBOR, Other Reference Rates, Foreign Exchange (FX) and Bond **Trading Matters**

In the LIBOR matters, in July 2018, the U.S. Court of Appeals for the Second Circuit denied plaintiffs' petition for an interlocutory appeal of the district court's denial of certification of a class of lending institution plaintiffs, and, in September 2018, denied defendants' petition for an interlocutory appeal of the district court's certification of antitrust claims brought by the over-the-counter class of plaintiffs.

NOTE 11 Shareholders' Equity

Common Stock

Declared Quarterly Cash Dividends on Common Stock (1)

Declaration Date	Record Date	Payment Date	 end Per hare
October 24, 2018	December 7, 2018	December 28, 2018	\$ 0.15
July 26, 2018	September 7, 2018	September 28, 2018	0.15
April 25, 2018	June 1, 2018	June 29, 2018	0.12
January 31, 2018	March 2, 2018	March 30, 2018	0.12
(1) In 2018, and through Octob	per 29, 2018.		

During the three and nine months ended September 30, 2018, the Corporation repurchased and retired 164 million and 482

million shares of common stock, which reduced shareholders' equity by \$5.0 billion and \$14.9 billion.

At September 30, 2018, the Corporation had unexercised warrants outstanding to purchase 122 million shares of its common stock expiring on October 29, 2018, and warrants outstanding and exercisable to purchase 130 million shares of common stock expiring on January 16, 2019. These warrants were originally issued in connection with preferred stock issuances to the U.S. Department of the Treasury in 2009 and 2008, and are listed on the New York Stock Exchange. The exercise price of the warrants expiring on January 16, 2019 is subject to continued adjustment each time the quarterly cash dividend is in excess of \$0.01 per common share to compensate the holders of the warrants for dilution resulting from an increased dividend. As a result of the Corporation's third-quarter 2018 dividend of \$0.15 per common share, the exercise price of the warrants expiring on January 16, 2019 was adjusted to \$12,609 per share. The unexercised warrants expiring on October 29, 2018 have an exercise price of \$30.79 per share.

During the nine months ended September 30, 2018, in connection with employee stock plans, the Corporation issued 74 million shares of its common stock and, to satisfy tax withholding obligations, repurchased 29 million shares of its common stock. At September 30, 2018, the Corporation had reserved 787 million unissued shares of common stock for future issuances under employee stock plans, common stock warrants, convertible notes and preferred stock.

Preferred Stock

During the three months ended March 31, 2018, June 30, 2018 and September 30, 2018, the Corporation declared \$428 million, \$318 million and \$466 million of cash dividends on preferred stock, or a total of \$1.2 billion for the nine months ended September 30, 2018.

On July 24, 2018, the Corporation issued 34,160 shares of 5.875% Non-Cumulative Preferred Stock, Series HH for \$844 million, net of deferred fees. Dividends are paid quarterly commencing on October 24, 2018. The Series HH preferred stock has a liquidation preference of \$25,000 per share and is subject to certain restrictions in the event the Corporation fails to declare and pay full dividends.

During the three months ended September 30, 2018, the Corporation fully redeemed Series D, Series I, Series K and Series 3 preferred stock for a total of \$1.7 billion. For additional information on the Corporation's preferred stock, including liquidation preference, dividend requirements and redemption period, see Note 13 Shareholders' Equity to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-K.

NOTE 12 Accumulated Other Comprehensive Income (Loss)

The table below presents the changes in accumulated OCI after-tax for the nine months ended September 30, 2018 and 2017.

(Dollars in millions)	_	ebt and y Securities	 it Valuation justments	D	erivatives	Employee nefit Plans	Foreign Currency	Total
Balance, December 31, 2016	\$	(1,267)	\$ (767)	\$	(895)	\$ (3,480)	\$ (879)	\$ (7,288)
Net change		931	(149)		156	80	102	1,120
Balance, September 30, 2017	\$	(336)	\$ (916)	\$	(739)	\$ (3,400)	\$ (777)	\$ (6,168)
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		(6,166)	183		(346)	91	(303)	(6,541)
Balance, September 30, 2018	\$	(7,765)	\$ (1,097)	\$	(1,309)	\$ (3,808)	\$ (857)	\$ (14,836)

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 nine months ended September 30, 2018 and 2017.

Changes in OCI Components Pre- and After-tax

	Preta		Ta effe			After- tax		Pretax		Tax effect	After- tax
				N	ine N	onths End	led S	eptember	30		
(Dollars in millions)			201	L8						2017	
Debt and equity securities:											
Net increase (decrease) in fair value	\$ (8,1	8)	\$ 2,	,075	\$	(6,123)	\$	1,802	\$	(674)	\$ 1,128
Net realized (gains) reclassified into earnings (3)	(1	5)		12		(43)		(312)		115	(197)
Net change	(8,2	3)	2,	,087		(6,166)		1,490		(559)	931
Debit valuation adjustments:											
Net increase (decrease) in fair value	2	0		(52)		168		(255)		96	(159)
Net realized losses reclassified into earnings (3)	:	0		(5)		15		30		(20)	10
Net change	2	0		(57)		183		(225)		76	(149)
Derivatives:											
Net increase (decrease) in fair value	(6	1)		174		(427)		79		(30)	49
Reclassifications into earnings:											
Net interest income	1	4		(33)		101		274		(103)	171
Personnel expense	(3	7)		7		(20)		(103)		39	(64)
Net realized losses reclassified into earnings	1	7		(26)		81		171		(64)	107
Net change	(4	4)		148		(346)		250		(94)	156
Employee benefit plans:											
Reclassifications into earnings:											
Net actuarial losses and other	1	9		(28)		91		128		(48)	80
Net realized losses reclassified into earnings (4)	1	9		(28)		91		128		(48)	80
Net change	1	9		(28)		91		128		(48)	80
Foreign currency:											
Net increase (decrease) in fair value	(1	7)	(165)		(252)		(454)		462	8
Net realized (gains) losses reclassified into earnings (3)	(1	3)		92		(51)		(608)		702	94
Net change	(2	0)		(73)		(303)		(1,062)		1,164	102
Total other comprehensive income (loss)	\$ (8,6	8)	\$ 2,	,077	\$	(6,541)	\$	581	\$	539	\$ 1,120

⁽⁴⁾ Reclassifications of pretax employee benefit plan oosts are recorded in other general operating experse in the Consolidated Statement of Income.

NOTE 13 Earnings Per Common Share

The calculation of earnings per common share (EPS) and diluted EPS for the three and nine months ended September 30, 2018 and 2017 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 2017 Annual Report on Form 10-K.

	Thre	ee Months En	ded Se	ptember 30	Nir	ne Months End	led Se	eptember 30
(In millions, except per share information)		2018		2017		2018		2017
Earnings per common share								
Net income	\$	7,167	\$	5,424	\$	20,869	\$	15,867
Preferred stock dividends		(466)		(465)		(1,212)		(1,328)
Net income applicable to common shareholders	\$	6,701	\$	4,959	\$	19,657	\$	14,539
Average common shares issued and outstanding		10,031.6		10,197.9		10,177.5		10,103.4
Earnings per common share	\$	0.67	\$	0.49	\$	1.93	\$	1.44
Diluted earnings per common share								
Net income applicable to common shareholders	\$	6,701	\$	4,959	\$	19,657	\$	14,539
Add preferred stock dividends due to assumed conversions (1)		_		37		_		187
Net income allocated to common shareholders	\$	6,701	\$	4,996	\$	19,657	\$	14,726
Average common shares issued and outstanding		10,031.6		10,197.9		10,177.5		10,103.4
Dilutive potential common shares (2)		139.2		548.8		140.4		728.7
Total diluted average common shares issued and outstanding		10,170.8		10,746.7		10,317.9		10,832.1
Diluted earnings per common share	\$	0.66	\$	0.46	\$	1.91	\$	1.36

The Corporation previously issued warrants to purchase 700 million shares of the Corporation's common stock to the holders of the Series T 6% Non-cumulative preferred stock (Series T). In the third quarter of 2017, the Series T holders exercised the warrants and acquired the 700 million shares of the Corporation's common stock. For the three and nine months ended September 30, 2017, the average dilutive impact of the 700 million potential common shares was included in the diluted share count under the "if-converted" method.

For both the three and nine months ended September 30, 2018 and 2017, 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 and nine months ended September 30, 2018, average options to purchase two million and five 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 compared to 18 million and 22 million for the same periods in 2017. For the three and nine months ended September 30, 2018, average warrants to purchase 135 million and 139 million shares of common stock were included in the diluted EPS calculation under the treasury stock method compared to 150 million shares of common stock for both periods in 2017. For both the three and nine months ended September 30, 2018 and 2017, average warrants to purchase 122 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.

NOTE 14 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 considered to be effective as of the beginning of the quarter in which they occur. During the nine months ended September 30, 2018, 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 and how the Corporation measures fair value and valuation processes and techniques, see Note 1 - Summary of Significant Accounting Principles and Note 20 - Fair Value Measurements to the Consolidated Financial Statements of the Corporation's 2017 Annual Report on Form 10-K. The Corporation accounts for certain financial instruments under the fair value option. For additional information, see Note 15 - Fair Value Option.

Represents the Series T dividends under the "if-converted" method prior to conversion.
 Includes incremental dilutive shares from restricted stock units, restricted stock and warrants.

Recurring Fair Value

Assets and liabilities carried at fair value on a recurring basis at September 30, 2018 and December 31, 2017, including financial instruments which the Corporation accounts for under the fair value option, are summarized in the following tables.

					Sej	otember 30, 2018	3			
		ı	Fair Val	ue Measureme	nts			Netting	Δεσ	sets/Liabilities at
(Dollars in millions)		Level 1		Level 2		Level 3	-	Adjustments (1)	AS	Fair Value
Assets										
Time deposits placed and other short-term investments	\$	1,528	\$	-	\$	_	\$	_	\$	1,528
Federal funds sold and securities borrowed or purchased under agreements to resell		-		52,524		_		_		52,524
Trading account assets:										
U.S. Treasury and agency securities (2)		39,677		1,251		_		_		40,928
Corporate securities, trading loans and other		-		27,281		1,534		_		28,815
Equity securities		66,850		28,049		290		_		95,189
Non-U.S. sovereign debt		5,667		19,524		469		_		25,660
Mortgage trading loans, MBS and ABS:										
U.S. government-sponsored agency guaranteed		_		18,697		_		_		18,697
Mortgage trading loans, ABS and other MBS		_		8,350		1,479		_		9,829
Total trading account assets (3)		112,194		103,152		3,772		_		219,118
Derivative assets		9,961		322,940		4,380		(291,664)		45,617
AFS debt securities:										
U.S. Treasury and agency securities		50,900		1,406		_		_		52,306
Mortgage-backed securities:										
Agency		_		136,112		_		_		136,112
Agency-collateralized mortgage obligations		_		5,678		_		_		5,678
Non-agency residential		_		1,593		544		_		2,137
Commercial		_		13,510		_		_		13,510
Non-U.S. securities		759		6,317		3		_		7,079
Other taxable securities		_		3,869		7		_		3,876
Tax-exempt securities		_		18,349		1		_		18,350
Total AFS debt securities		51,659		186,834		555		_		239,048
Other debt securities carried at fair value:		•		•						,
Mortgage-backed securities:										
Non-agency residential		_		1,400		296		_		1,696
Non-U.S. securities		9,943		945		_		_		10,888
Other taxable securities		· _		3		_		_		3
		0.042		0.240		2006				40 507
Total other debt securities carried at fair value		9,943		2,348		296		_		12,587
Loans and leases		-		5,321		410		-		5,731
Loans held-for-sale		-		2,590		526		-		3,116
Other assets (4)		18,858		1,740		3,140		-		23,738
Total assets	\$	204,143	\$	677,449	\$	13,079	\$	(291,664)	\$	603,007
Liabilities										
Interest-bearing deposits in U.S. offices	\$	-	\$	529	\$	_	\$	_	\$	529
Federal funds purchased and securities loaned or sold under agreements to repurchase		-		34,242		_		_		34,242
Trading account liabilities:										
U.S. Treasury and agency securities		15,403		362		_		_		15,765
Equity securities		38,743		4,673		_		_		43,416
Non-U.S. sovereign debt		12,496		9,863		_		_		22,359
Corporate securities and other		_		8,407		17		_		8,424
Total trading account liabilities		66,642		23,305		17		_		89,964
Derivative liabilities		9,142		309,966		4,950		(287,869)		36,189
Short-termborrowings		_		1,789		_		_		1,789
Accrued expenses and other liabilities		22,667		1,849		_		_		24,516
Longterm debt		_		27,754		923		_		28,677
Total liabilities	\$	98,451	\$	399,434	\$	5,890	\$	(287,869)	\$	215,906
(1) Amounte represent the impact of legally enforceship macter nations arisegments and also each collatoral in	•			333,434	Ψ	3,030	Ψ	(201,003)	Ψ	210,500

⁽¹⁾ Amounts represent the impact of legally enforceable master netting agreements and also cash collateral held or placed with the same counterparties.
(2) Includes \$19.9 billion of GSE obligations.
(3) Includes socurities with a fair value of \$14.2 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 \$2.2 billion which are classified as Level 3 assets.

				De	ecember 31, 2017			
		Fair Va	alue Measurements					
(Dollars in millions)	Level 1		Level 2		Level 3	Netting Adjustments (1)	Asse	ts/Liabilities at Fair Value
Assets	 					, , , , , , , , , , , , , , , , , , ,		
Time deposits placed and other short-term investments	\$ 2,234	\$	_	\$	_	\$ -	\$	2,234
Federal funds sold and securities borrowed or purchased under agreements to resell	_		52,906		_	_		52,906
Trading account assets:								
U.S. Treasury and agency securities (2)	38,720		1,922		_	_		40,642
Corporate securities, trading loans and other	_		28,714		1,864	_		30,578
Equity securities	60,747		23,958		235	_		84,940
Non-U.S. sovereign debt	6,545		15,839		556	_		22,940
Mortgage trading loans, MBS and ABS:								
U.S. government-sponsored agency guaranteed	_		20,586		_	_		20,586
Mortgage trading loans, ABS and other MBS	_		8,174		1,498	_		9,672
Total trading account assets (3)	106,012		99,193		4,153	_		209,358
Derivative assets	6,305		341,178		4,067	(313,788)		37,762
AFS debt securities:	5,255				,,,,,,	(522)		5.,
U.S. Treasury and agency securities	51,915		1,608		_	_		53,523
Mortgage-backed securities:	02,020		4,000					50,525
Agency	_		192,929		_	_		192,929
Agency-collateralized mortgage obligations	_		6,804		_	_		6,804
Non-agency residential			2,669			_		2,669
Commercial			13,684		_	_		13,684
Non-U.S. securities	772		5,880		25	_		6,677
Other taxable securities	112		5,261		509	_		5,770
Tax-exempt securities	_		20,106		469	_		20,575
Total AFS debt securities	52,687		248,941		1,003			302,631
Other debt securities carried at fair value:	32,001		240,041		1,000			302,001
Mortgage-backed securities:								
Non-agency residential	_		2,769		_	_		2,769
Non-U.S. securities	8,191		1,297			_		9,488
Other taxable securities	0,131		229		_	_		229
Total other debt securities carried at fair value	8,191		4,295					12,486
Loans and leases	0,191		5,139		- 571	_		5,710
	_					_		
Loans held-for-sale	_		1,466		690	_		2,156
Other assets (4)	19,367		789		2,425	_		22,581
Total assets	\$ 194,796	\$	753,907	\$	12,909	\$ (313,788)	\$	647,824
Liabilities								
Interest-bearing deposits in U.S. offices	\$ _	\$	449	\$	_	\$ -	\$	449
Federal funds purchased and securities loaned or sold under agreements to repurchase	_		36,182		_	_		36,182
Trading account liabilities:								
U.S. Treasury and agency securities	17,266		734		_	_		18,000
Equity securities	33,019		3,885		_	_		36,904
Non-U.S. sovereign debt	11,976		7,382		_	_		19,358
Corporate securities and other	_		6,901		24	_		6,925
Total trading account liabilities	62,261		18,902		24	_		81,187
Derivative liabilities	6,029		334,261		5,781	(311,771)		34,300
Short-term borrowings	-		1,494		-			1,494
			1,707					1,-10-1
	21 887		945		8	_		22 RAN
Accrued expenses and other liabilities Longterm debt	21,887		945 29,923		8 1,863	_		22,840 31,786

⁽¹⁾ Amounts represent the impact of legally enforceable master netting agreements and also cash collateral held or placed with the same counterparties.
(2) Includes \$21.3 billion of CSC obligations.
(3) Includes socurities with a fair value of \$16.8 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 \$2.3 billion which are classified as Level 3 assets.

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 and nine months ended September 30, 2018 and 2017, including net realized and unrealized gains (losses) included in earnings and accumulated OCI.

Level 3 - Fair Value Measurements for the Three Months Ended September 30, 2018 (1)

							Gross		_			Change in Unrealized Gains
(Dallars in millions)	Balance July 1 2018	Total Realized/Unrealize Gains (Losses) ⁽²⁾	d (Los	ains sses) ICI ⁽³⁾	Purchases	Sales	Issuances	Settlements	Gross Transfers Into Level 3	Gross Transfers out of Level 3	Balance September 30 2018	(Losses) Related to Financial
Trading account assets:												
Corporate securities, trading loans and other	\$ 1,638	\$ 14	\$	_	\$ 54	\$ (87)	\$ -	\$ (175)	\$ 269	\$ (179)	\$ 1,534	\$ (14)
Equity securities	228	8		_	21	_	-	_	43	(10)	290	8
Non-U.S. sovereign debt	368	10		(13)	_	_	-	_	109	(5)	469	11
Mortgage trading loans, ABS and other MBS	1,523	16		(1)	75	(184)	_	(29)	191	(112)	1,479	8
Total trading account assets	3,757	48		(14)	150	(271)	_	(204)	612	(306)	3,772	13
Net derivative assets (4)	(1,588) (53)		_	23	(66)	_	111	20	983	(570)	(51)
AFS debt securities:												
Non-agency residential MBS	453	31		(28)	_	(72)	_	_	235	(75)	544	_
Non-U.S. securities	3	_		_	_	_	_	_	_	_	3	_
Other taxable securities	99	(1)		(3)	_	(22)	_	_	_	(66)	7	_
Tax-exempt securities	1	_		_	_	_	-	_	-	_	1	_
Total AFS debt securities	556	30		(31)	_	(94)	_	_	235	(141)	555	
Other debt securities carried at fair value – Non-agency residential MBS	287	(23)		_	_	_	_	_	60	(28)	296	(10)
Loans and leases (5, 6)	493	_		_	_	(62)	_	(21)	_	_	410	(1)
Loans held-for-sale (5)	577	12		(4)	39	_	_	(82)	12	(28)	526	9
Other assets (6, 7)	3,184	121		_	_	(22)	31	(174)	_	_	3,140	55
Trading account liabilities – Corporate securities and other	(35) 9		_	9	_	_	_	_	_	(17)	(6)
Longterm debt (5)	(1,225) 11		(1)	_	_	(11)	106	(106)	303	(923)	13

Transfers into Level 3, primarily due to decreased price observability, during the three months ended September 30, 2018 included \$612 million of trading account assets, \$235 million of AFS debt securities, \$60 million of other debt securities carried at fair value and \$106 million of long-term debt. 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.

Transfers out of Level 3, primarily due to increased price observability, during the three months ended September 30, 2018 included \$306 million of trading account assets, \$983 million of net derivative assets, \$141 million of AFS debt securities and \$303 million of long-term debt.

<sup>(1,225) 11 (1) - - (11) 106 (106) 303 (923) 13

(2)</sup> Includes gains (losses) reported in earnings in the following income statement line liters: Trading account assets/liabilities - predominantly trading account profits. Not derivative assets - primarily trading account profits and other income; Other debt securities carried at fair value - other income; Loans and leases - other income; Chare heldfore-sale - other income; Other debt securities carried at fair value - other income; Loans and leases - other income; Chare heldfore-sale - other income; Other debt securities carried at fair value - other income; Loans heldfore-sale - other income; Other debt securities carried at fair value - other income; Chare heldfore-sale - other income; Other debt securities carried at fair value - other income; Chare heldfore-sale - other income; Other debt securities carried at fair value - other income; Chare heldfore-sale - other income; Other debt securities and the shape of the forward swap curve, and periodic adjustments to the valuation model to reflect charges in the modeled relationships between inputs and projected cash flow, as well as charges in cash flow assumptions including cost to service.

assumptions including cost to service.

assumptions including cost to service.

assumptions included gains (losses) in OC on APS debt securities, foreign currency translation adjustments and the impact of charges in the Corporation's credit spreads on long-term debt accounted for under the fair value option. For additional information, see Note 1 - Summary of Significant Accounting Phinciples to the Corporation's 55.0 billion.

Another represent instruments that are accounted for under the fair value option.

Another represent instruments that are accounted for under the fair value option.

Settlements primarily represent the net charge in fair value of the MSR asset due to the recognition of modeled cash flows and the passage of time.

Level 3 - Fair Value Measurements for the Three Months Ended September 30, 2017 (1)

					(Gross		_			Change in Unrealized Gains
(Dollars in millions)	Balance July 1 2017	Total Realized/Unrealized Gains (Losses) (2)	Gains (Losses) in OCI ⁽³⁾	Purchases	Sales	Issuances	Settlements	Gross Transfers into Level 3	Gross Transfers out of Level 3	Balance September 30 2017	(Losses) Related to Financial Instruments Still Held (2)
Trading account assets:											
Corporate securities, trading loans and other	\$ 1,777	\$ 77	\$ -	\$ 35	\$ (79)	\$ 5	\$ (208)	\$ 288	\$ (153)	\$ 1,742	\$ 35
Equity securities	229	8	_	3	(3)	_	_	17	(10)	244	10
Non-U.S. sovereign debt	506	33	18	_	_	_	(5)	_	_	552	33
Mortgage trading loans, ABS and other MBS	1,232	10	(1)	150	(157)	_	(46)	83	(19)	1,252	(2)
Total trading account assets	3,744	128	17	188	(239)	5	(259)	388	(182)	3,790	76
Net derivative assets (4)	(1,803)	(252)	_	150	(367)	_	278	7	(36)	(2,023)	(283)
AFS debt securities:											
Non-U.S. securities	139	1	4	7	_	_	(115)	_	_	36	_
Other taxable securities	483	_	1	_	_	_	(1)	_	_	483	_
Tax-exempt securities	518	_	1	_	_	_	(7)	_	(45)	467	_
Total AFS debt securities	1,140	1	6	7	_	_	(123)	_	(45)	986	_
Other debt securities carried at fair value – Non-agency residential MBS	23	_	_	_	_	_	(1)	_	_	22	_
Loans and leases (5, 6)	667	2	_	2	(24)	_	(29)	_	_	618	2
Loans held-for-sale (5)	766	38	10	_	(4)	_	(93)	58	_	775	27
Other assets (6, 7)	2,795	124	(43)	_	(80)	69	(191)	_	_	2,674	8
Federal funds purchased and securities loaned or sold under agreements to repurchase (5)	(135)	_	_	_	_	_	135	_	_	_	_
Trading account liabilities - Corporate securities and other	(22)	1	_	_	(3)	(1)	_	_	_	(25)	_
Accrued expenses and other liabilities (5)	(9)	_	_	_	_	_	_	_	_	(9)	_
Longterm debt (5)	(1,646)	(87)	(7)	63	_	(129)	115	(244)	45	(1,890)	(87)

Transfers into Level 3, primarily due to decreased price observability, during the three months ended September 30, 2017 included \$388 million of trading account assets and \$244 million of long-term debt. Transfers occur on a regular basis for longterm 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.

Transfers out of Level 3, primarily due to increased price observability, during the three months ended September 30, 2017 included \$182 million of trading account assets.

Lipsing (1) Assets, (increase) (decrease) to Level 3 and for liabilities, (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 profits; Net derivative assets - primarily trading account profits and other income; Loans and leases - other income; Loans held-for-sale - other income; Other assets - primarily other income related to MSRs; Longiseme debt - trading account profits, the amounts reflect the changes in model of MSR fair value due to observed changes in interest rates, volatility, spreads and the shape of the forward swap curve, and previous curve, and previous curve, and previous calculations to the volutation model to reflect the modeled relationships between inputs and projected cash flows, as well as changes in cash flow assumptions including cost to severe devices, volatility, spreads and the shape of the forward swap as well as changes in cash flow assumptions including cost to severe during contract the compositions of the compositions of the compositions of the Corporation's credit spreads on long-term debt accounted for under the fair value option. For additional information, see Note 1 – Summary of Significant Accounting Principles to the Corporation's 2017 Annual Report on Form 10-K.

(4) Not derivative assets include derivative except of the Corporation's 2017 Annual Report on Form 10-K.

(5) Amounts represent instruments that are accounted for under the fair value option.

(6) Assumptions of the MSR asset due to the recognition of modeled cash flows and the passage of time.

Level 3 - Fair Value Measurements for the Nine Months Ended September 30, 2018 (1)

						Gross					Change in
(Dallars in millions)	Balance January 1 2018	Total Realized/Unrealized Gains (Losses) ⁽²⁾	Gains I (Losses) in OCI ⁽³⁾	Purchases	Sales	Issuances	Settlements	Gross Transfers Into Level 3	Gross Transfers out of Level 3	Balance September 30 2018	Unrealized Gains (Losses) Related to Financial Instruments Still Held ⁽²⁾
Trading account assets:											
Corporate securities, trading loans and other	\$ 1,864	\$ (14)	\$ (1)	\$ 328	\$ (298)	\$ -	\$ (388)	\$ 517	\$ (474)	\$ 1,534	\$ (88)
Equity securities	235	17	_	29	(11)	_	(4)	73	(49)	290	17
Non-U.S. sovereign debt	556	39	(55)	7	(50)	_	(8)	117	(137)	469	40
Mortgage trading loans, ABS and other MBS	1,498	157	2	392	(760)	_	(136)	541	(215)	1,479	92
Total trading account assets	4,153	199	(54)	756	(1,119)	_	(536)	1,248	(875)	3,772	61
Net derivative assets (4)	(1,714)	203	_	371	(919)	-	488	87	914	(570)	(138)
AFS debt securities:											
Non-agency residential MBS	_	39	(42)	_	(72)	_	_	694	(75)	544	_
Non-U.S. securities	25	_	(1)	-	(10)	-	(14)	3	_	3	_
Other taxable securities	509	1	(5)	_	(22)	_	(10)	60	(526)	7	_
Tax-exempt securities	469	-	_	_	_	_	-	1	(469)	1	_
Total AFS debt securities (5)	1,003	40	(48)	_	(104)	_	(24)	758	(1,070)	555	_
Other debt securities carried at fair value – Non-agency residential MBS	_	(27)	_	_	(7)	_	_	358	(28)	296	(5)
Loans and leases (6, 7)	571	(20)	_	_	(71)	_	(70)	_	`_	410	(17)
Loans held-for-sale (6)	690	24	(31)	51	_	_	(160)	12	(60)	526	18
Other assets (5, 7, 8)	2,425	389	_	2	(68)	83	(585)	929	(35)	3,140	188
Trading account liabilities – Corporate securities and other	(24)	11	_	9	(11)	(2)	_	_	_	(17)	(7)
Accrued expenses and other liabilities (6)	(8)	_	_	_	_	_	8	_	_	_	_
Longterm debt (6)	(1,863)	97	2	9	_	(131)	429	(253)	787	(923)	87

Transfers into Level 3, primarily due to decreased price observability, during the nine months ended September 30, 2018 included \$1.2 billion of trading account assets, \$758 million of AFS debt securities, \$358 million of other debt securities carried at fair value and \$253 million of long-term debt. Transfers occur on a regular basis for longterm 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.

Transfers out of Level 3, primarily due to increased price observability, during the nine months ended September 30, 2018 included \$875 million of trading account assets, \$914 million of net derivatives assets and \$787 million of long-term debt.

Longtermdebt (6) (1,863) 97 2 9 — (131) 429 (253) 787 (923) 87

(1) Assets (liabilities). For assets, increase (decrease) to Level 3 and for liabilities, (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 profits; Not derivative assets - primarily trading account profits and other income; Other debt securities carried at fair value - other income; Loars and leases - other income; Loars heldfor-sale - other income; Other assets - primarily other income related to MSRs; Longterm debt. - trading account profits. For MSRs, the amounts reflect the changes in modeled MSR fair value due to observed changes in interest rales, volatility, spreads and the shape of the flowerd 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 cosh 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. For additional information, see Note 1 - Summary of Significant Accounting Principles to the Corporation's 2017 Arrual Report on Form 10-K.

(4) Net derivative assets include derivative assets of \$4.0 tillion and derivative liabilities of \$5.0 billion.

(5) Transfer primarily relates to the reclassification of certain securities.

(6) 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 time.

Level 3 - Fair Value Measurements for the Nine Months Ended September 30, 2017 (1)

								G	ross			_						ange in ized Gains
(Dollars in millions)	Jar	alance nuary 1 2017	Total Realized/Unrealized Gains (Losses) (2)	Gains (Losses) in OCI ⁽³⁾		Purchases	Sale	s	Issuances	Se	ettlements	Tra	Gross ransfers into evel 3	Gross Fransfers out of Level 3	Baland Septembe 2017		(Losses Fir Instru) Related to nancial ments Still eld (2)
Trading account assets:																		
Corporate securities, trading loans and other	\$	2,777	\$ 225	\$ -	\$	353	\$ (679) \$	5	\$	(443)	\$	506	\$ (1,002)	\$ 1	742	\$	72
Equity securities		281	23	_		45		(67)	_		(10)		119	(147)		244		11
Non-U.S. sovereign debt		510	64	12		26		(59)	_		(73)		72	_		552		60
Mortgage trading loans, ABS and other MBS		1,211	195	(2))	747	(846)	_		(169)		187	(71)	1	252		107
Total trading account assets		4,779	507	10		1,171	(1,	651)	5		(695)		884	(1,220)	3	790		250
Net derivative assets (4)		(1,313)	(1,098)	_		558	(843)	_		722		36	(85)	(2	023)		(561)
AFS debt securities:																		
Non-U.S. securities		229	2	16		49		_	_		(260)		_	_		36		_
Other taxable securities		594	3	6		5		_	_		(31)		_	(94)		483		_
Tax-exempt securities		542	_	1		_		(56)	_		(10)		35	(45)		467		_
Total AFS debt securities		1,365	5	23		54		(56)	_		(301)		35	(139)		986		_
Other debt securities carried at fair value – Non-agency residential MBS		25	(1)	_		_		_	_		(2)		_	_		22		_
Loans and leases (5, 6)		720	20	_		2		(24)	_		(93)		_	(7)		618		18
Loans held-for-sale (5)		656	109	7		2	(159)	_		(281)		473	(32)		775		60
Other assets (6, 7)		2,986	93	(31))	2		(74)	207		(573)		64	_	2	674		(181)
Federal funds purchased and securities loaned or sold under agreements to repurchase (5)		(359)	(5)	_		_		_	(12)		171		(58)	263		_		(5)
Trading account liabilities – Corporate securities and other		(27)	13	_		4		(13)	(2)		_		_	_		(25)		(1)
Accrued expenses and other liabilities (5)		(9)	_	_		_		_	_		_		_	_		(9)		_
Long-term debt (5)		(1,514)	(160)	(18))	81		_	(279)		398		(530)	132	(1	890)		(158)

Transfers into Level 3, primarily due to decreased price observability, during the nine months ended September 30, 2017 included \$884 million of trading account assets, \$473 million of LHFS and \$530 million of long-term debt. 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.

Transfers out of Level 3, primarily due to increased price observability, during the nine months ended September 30, 2017 included \$1.2 billion of trading account assets, \$139 million of AFS debt securities, \$263 million of federal funds purchased and securities loaned or sold under agreements to repurchase and \$132 million of long-term debt.

Longermoent (a) (1,5014) (1,50

The following tables present information about significant unobservable inputs related to the Corporation's material categories of Level 3 financial assets and liabilities at September 30, 2018 and December 31, 2017.

Quantitative Information about Level 3 Fair Value Measurements at September 30, 2018

Odlars in millions)	Fair	Valuation		nputs Panges of	Wainthan
Financial Instrument	Fair Value	valuation Technique	Significant Unobservable Inputs	Ranges of Inputs	Weighted Average
oans and Securities ⁽¹⁾					
Instruments backed by residential real estate assets	\$ 1,615		Yield	0% to 25%	79
Trading account assets - Mortgage trading loans, ABS and other MBS	353		Prepayment speed	0% to 19% CPR	119
Loans and leases	410	Discounted cash flow. Market	Default rate	0% to 3% CDR	19
Loans held-for-sale	1	comparables	Loss severity	0% to 51%	179
AFS debt securities, primarily non-agency residential	555		Price	\$0 to \$141	\$7
Other debt securities carried at fair value - Non-agency residential	296				
Instruments backed by commercial real estate assets	\$ 361		Yield	0% to 25%	79
Trading account assets – Corporate securities, trading loans and other	272	Discounted cash flow	Price	\$0 to \$102	\$78
Trading account assets - Mortgage trading loans, ABS and other MBS	89				
Commercial loans, debt securities and other	\$ 3,293		Yield	1% to 46%	149
Trading account assets - Corporate securities, trading loans and other	1,262		Prepayment speed	10% to 20%	149
Trading account assets - Non-U.S. sovereign debt	469	Discounted cash flow, Market comparables	Default rate	3% to 4%	49
Trading account assets - Mortgage trading loans, ABS and other MBS	1,037	cumparaties	Loss severity	35% to 40%	389
Loans held-for-sale	525		Price	\$0 to \$141	\$65
Other assets, primarily auction rate securities	\$ 950		Price	\$10 to \$100	\$96
		Discounted cash flow, Market			
		comparables			
Men	e 2400		Weighted-average life, fixed rate (4)	0 to 14 years	G. voor
MSRs	\$ 2,190				6 years
		Discounted cash flow	Weighted-average life, variable rate (4)	0 to 10 years	3 years
			Option-adjusted spread, fixed rate	9% to 14%	109
			Option-adjusted spread, variable rate	9% to 15%	129
Structured liabilities					
Long-term debt	\$ (923)	Discounted cash flow, Market	Equity correlation	9% to 100%	619
		comparables, Industry	Long-dated equity volatilities	4% to 79%	279
		standard derivative pricing (2)			
			Yield	7% to 46%	189
			Price	\$0 to \$100	\$70
let derivative assets					
Credit derivatives	\$ (304)		Yield	2% to 12%	49
			Upfront points	0 points to 100 points	69 points
			Credit correlation	70%	n/a
		Discounted cash flow, Stochastic recovery correlation	Prepayment speed	15% to 20% CPR	159
		model			
			Default rate	1% to 4% CDR	29
			Loss severity	35%	n/a
			Price	\$0 to \$101	\$77
Equity derivatives	\$ (857)	Industry standard derivative	Equity correlation	9% to 100%	619
		pricing (2)	Long-dated equity volatilities	4% to 79%	279
Commodity derivatives	\$ 11		Natural gas forward price	\$1/MMBtu to \$11/MMBtu	\$3/MMBt
		Discounted cash flow, Industry	1 <mark>1</mark>	53% to 89%	789
		standard derivative pricing (2)		13% to 495%	
Interest rate derivatives	\$ 580		Volatilities Correlation (IR/IR)		55%
III.GI GSL I ALG GGLIVALIVES	a 280			15% to 80%	53%
			Correlation (FX/IR)	0% to 46%	19
		Industry standard derivative	Correlation (rylin)	0,000,40,0	
		Industry standard derivative pricing (3)	Long-dated inflation rates	-20% to 38%	29
					29 19

Total net derivative assets

(1) The categories are aggregated based upon product type which differs from firancial statement classification. The following is a reconciliation to the line items in the table on page 99: Trading account assets – Corporate securities, trading loans and other of \$1.5 billion, AFS debt securities of \$555 million, Other debt securities carried at fair value – Non-agency residential of \$296 million, Other assets, including MSRs, of \$3.1 billion, Loans and leases of \$410 million and LHFS of \$526 million.

(2) Includes models such as Morte Carlo simulation and Black-Schotes.

(3) Includes models such as Morte Carlo simulation, Black-Schotes and other methods that model the joint dynamics of interest, inflation and foreign exchange rates.

(4) The veighted-average life is a product of changes in market rates of interest, prepayment rates and other model and cash flow assumptions.

CRR = Constant Prepayment Rate

MRBu = Million British thermal units

IR = Interest Rate

X = Foreign Exchange

η/a = not applicable

Quantitative Information about Level 3 Fair Value Measurements at December 31, 2017

(Dollars in millions)				Inputs	
Financial Instrument	Fair Value	Valuation Technique	Significant Unobservable Inputs	Ranges of Inputs	Weighted Average
oans and Securities (1)					
Instruments backed by residential real estate assets	\$ 871		Yield	0% to 25%	6
Trading account assets - Mortgage trading loans, ABS and other MBS	298	Discounted cash flow	Prepayment speed	0% to 22% CPR	12
Loans and leases	570		Default rate	0% to 3% CDR	1
Loans held-for-sale	3		Loss severity	0% to 53%	17
Instruments backed by commercial real estate assets	\$ 286		Yield	0% to 25%	9
Trading account assets - Corporate securities, trading loans and other	244	Discounted cash flow	Price	\$0 to \$100	\$6
Trading account assets - Mortgage trading loans, ABS and other MBS	42				
Commercial loans, debt securities and other	\$ 4,023		Yield	0% to 12%	5
Trading account assets - Corporate securities, trading loans and other	1,613		Prepayment speed	10% to 20%	16
Trading account assets - Non-U.S. sovereign debt	556		Default rate	3% to 4%	4
Trading account assets - Mortgage trading loans, ABS and other MBS	1,158		Loss severity	35% to 40%	37
AFS debt securities - Other taxable securities	8	comparables	Price	\$0 to \$145	\$6
Loans and leases	1				
Loans held-for-sale	687				
Auction rate securities	\$ 977		Price	\$10 to \$100	\$9
Trading account assets - Corporate securities, trading loans and other	7			1-1-1-1-1	, ,
		Discounted cash flow, Market comparables			
AFS debt securities - Other taxable securities	501				
AFS debt securities - Tax-exempt securities	469				
MSRs	\$ 2,302		Weighted-average life, fixed rate (4)	0 to 14 years	5 year
		Diagonated and dame	Weighted-average life, variable rate (4)	0 to 10 years	3 year
		Discounted cash flow	Option-adjusted spread, fixed rate	9% to 14%	10
			Option-adjusted spread, variable rate	9% to 15%	12
Structured liabilities				31112211	
Long-term debt	\$ (1,863)	1	Equity correlation	15% to 100%	63'
	v (3,222)	Discounted cash flow, Market		4%to84%	22
		comparables, Industry			
		standard derivative pricing (2)	Yield	7.5%	n/
			Price	\$0 to \$100	\$6
let derivative assets					
Credit derivatives	\$ (282))	Yield	1% to 5%	3'
			Upfront points	0 points to 100 points	71 point
			Credit correlation	35% to 83%	42
		Discounted cash flow,			
		Stochastic recovery correlation model	Prepayment speed	15% to 20% CPR	16
			Default rate	1% to 4% CDR	2
			Loss severity	35%	ny
			Price	\$0 to \$102	\$8
Equity derivatives	\$ (2,059)	Industry standard derivative	Equity correlation	15% to 100%	63
		pricing (2)	Long-dated equity volatilities	4% to 84%	22
Commodity derivatives	\$ (3)	1	Natural gas forward price	\$1/MMBtu to \$5/MMBtu	\$3/MMB
-	. (3)	Discounted cash flow, Industry		71% to 87%	81
		standard derivative pricing (2)			
	-		Volatilities	26% to 132%	57
Interest rate derivatives	\$ 630		Correlation (IR/IR)	15% to 92%	50
		Industry standard derivative	Correlation (FX/IR)	0% to 46%	1
		pricing (3)	Long-dated inflation rates	-14% to 38%	4
			Long-dated inflation volatilities	0% to 1%	19
Total net derivative assets	=			5.58170	1,
The categories are aggregated based upon product type which differs from financial state	\$ (1,714)		me in the table on more 100. Trading account accord	Coverage to a constitution tradition leaves and atta	or of ¢1 O billio

<sup>\$ (1,714)

1</sup> 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 page 100: Trading account assets – Corporate securities, trading loans and other of \$1.9 billion, Trading account assets – Nortugage trading loans, ABS and other MBS of \$1.5 billion, APS debt securities – Other taxable securities of \$509 million, APS debt securities – Tax-exempt securities of \$469 million, Loans and leases of \$571 million and LHPS of \$900 million, APS debt securities – Tax-exempt securities of \$469 million, APS debt securities – Tax-exempt securities of \$469 million, APS debt securities – Other taxable securities of \$509 million, APS debt securities – Tax-exempt securities of \$469 million, APS debt securities – Other taxable securities of \$509 million, APS debt securities – Tax-exempt securities of \$469 million, APS debt securities – Other taxable securities of \$509 million, APS debt securities – Tax-exempt securities of \$469 million, APS debt securities – Other taxable securities of \$509 million, APS debt securities – Tax-exempt securities of \$469 million, APS debt securities – Other taxable securities of \$509 million, APS debt securities – Tax-exempt securities of \$469 million, APS debt securities – Other taxable securities of \$509 million, APS debt securities – Other taxable securities of \$509 million, APS debt securities – Tax-exempt securities of \$469 million, APS debt securities – Other taxable securities of \$500 million, APS

Sensitivity of Fair Value Measurements to Changes in Unobservable Inputs

For more 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 2017 Annual Report on Form 10-K.

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 weightedaverage 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 weightedaverage life would generally result in an increase (decrease) in the fair value of the MSRs. For example, a 10 percent or 20 percent decrease in prepayment rates, which impacts the weighted-average life, could result in an increase in fair value of \$60 million or \$125 million, while a 10 percent or 20 percent increase in prepayment rates could result in a decrease in fair value of \$56 million or \$109 million. A 100 bp or 200 bo decrease in option-adjusted spread (OAS) levels could result in an increase in fair value of \$67 million or \$139 million, while a 100

bp or 200 bp increase in OAS levels could result in a decrease in fair value of \$63 million or \$121 million. These sensitivities are hypothetical and actual amounts may vary materially. For more information on variations in assumptions and sensitivities on MSRs, see Note 20 - Fair Value Measurements to the Consolidated Financial Statements of the Corporation's 2017 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 and nine months ended September 30, 2018 and 2017.

Assets Measured at Fair Value on a Nonrecurring Basis

		Septemb	er 30,	2018		Three Months Ended September 30, 2018		Nine Months Ended September 30, 2018
(Dollars in millions)	L	evel 2		Level 3		Gains	Losse	s)
Assets								
Loans held-for-sale	\$	45	\$	12	\$	(2)	\$	(2)
Loans and leases (1)		_		492		(63)		(194)
Foreclosed properties (2, 3)		-		87		(8)		(22)
Other assets		294		3		(22)		(58)
	ī	Septemb	er 30, 2	017	Thr	ee Months Ended September 30, 2017	Nin	e Months Ended September 30, 2017
Assets								
Loans held-for-sale	\$	70	\$	16	\$	_	\$	(4)
Loans and leases (1)		_		813		(152)		(307)
Foreclosed properties (2, 3)		_		79		(21)		(35)
Other assets		353		_		(1)		(121)

(1) Includes \$24 million and \$76 million of losses on loans that were written down to a collateral value of zero during the three and nine months ended September 30, 2018, compared to losses of \$71 million and \$132 million for the same periods in 2017.

(2) 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 \$500 million and \$879 million of properties acquired upon foreclosure of certain government-guaranteed loans (principally FHA-insured loans) at September 30, 2018 and 2017.

The table below presents information about significant unobservable inputs related to the Corporation's nonrecurring Level 3 financial assets and liabilities at September 30. 2018 and December 31, 2017. 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	Fai	r Value	Valuation Technique	Significant Unobservable Inputs	Ranges of Inputs	Weighted Average
(Dollars in millions)				September 30, 2018		
Loans and leases backed by residential real estate assets	\$	492	Market comparables	OREO discount	13% to 59%	24%
				Costs to sell	8%to 26%	9%
				December 31, 2017		
Loans and leases backed by residential real estate assets	\$	894	Market comparables	OREO discount	15%to 58%	23%
						7%
				Costs to sell	5%to 49%	

NOTE 15 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 2017 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 September 30, 2018 and December 31, 2017, 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 and nine months ended September 30, 2018 and 2017.

Fair Value Option Elections

		S	eptember 30, 2018	3				De	cember 31, 2017	
(Dollars inmillions)	alue Carrying Amount		Contractual Principal Outstanding		r Value Carrying ount Less Unpaid Principal	F	air Value Carrying Amount		tractual Principal Outstanding	air Value Carrying mount Less Unpaid Principal
Federal funds sold and securities borrowed or purchased under agreements to resell	\$ 52,524	\$	52,498	\$	26	\$	52,906	\$	52,907	\$ (1)
Loans reported as trading account assets (1)	5,538		12,414		(6,876)		5,735		11,804	(6,069)
Trading inventory – other	15,676		n/a		n/a		12,027		n/a	n/a
Consumer and commercial loans	5,731		5,776		(45)		5,710		5,744	(34)
Loans held-for-sale (1)	3,116		4,375		(1,259)		2,156		3,717	(1,561)
Other assets	3		n/a		n/a		3		n/a	n/a
Longterm deposits	529		496		33		449		421	28
Federal funds purchased and securities loaned or sold under agreements to repurchase	34,242		34,252		(10)		36,182		36,187	(5)
Short-term borrowings	1,789		1,789		_		1,494		1,494	_
Unfunded loan commitments	70		n/a		n/a		120		n/a	n/a
Longterm debt (2)	28,677		29,265		(588)		31,786		31,512	274

⁽¹⁾ A significant portion of the loans reported as trading account assets and loans held-for-sale are distressed loans that were purchased at a deep discount to par, and the remainder are loans with a fair value near contractual principal outstanding, (2) Includes structured liabilities with a fair value of \$28.9 billion and \$31.4 billion, and contractual principal outstanding, (7) a more principal outstanding, (2) Includes structured liabilities with a fair value of \$28.9 billion and \$31.4 billion, and contractual principal outstanding, (3) a more principal outstanding, (3) a

Gains (Losses) Relating to Assets and Liabilities Accounted for Under the Fair Value Option

	ng Account Profits	Other Income		Total	Trad	ing Account Profits	Other Income	Total
			Thr	ee Months End	led Se	ptember 30		
(Dollars in millions)		2018					2017	
Loans reported as trading account assets	\$ 74	\$ -	\$	74	\$	75	\$ _	\$ 75
Trading inventory – other (1)	1,693	-		1,693		1,217	_	1,217
Consumer and commercial loans	176	8		184		10	(4)	6
Loans held-for-sale (2)	_	8		8		_	92	92
Longterm debt (3, 4)	143	(19)		124		(416)	(38)	(454)
Other (5)	2	52		54		(7)	22	15
Total	\$ 2,088	\$ 49	\$	2,137	\$	879	\$ 72	\$ 951

			P	Nine Months End	led Se	ptember 30		
		2018					2017	
Loans reported as trading account assets	\$ 145	\$ -	\$	145	\$	272	\$ _	\$ 272
Trading inventory – other (1)	3,649	-		3,649		2,890	_	2,890
Consumer and commercial loans	301	(24)		277		19	35	54
Loans held-for-sale (2)	1	12		13		_	275	275
Long-term debt (3, 4)	1,497	(75)		1,422		(471)	(109)	(580)
Other (5)	15	75		90		(60)	64	4
Total	\$ 5,608	\$ (12)	\$	5,596	\$	2,650	\$ 265	\$ 2,915

(1) The gains in trading account profits are primarily offset by losses on trading liabilities that hedge these assets.
(2) Includes the value of IRLOs on funded loans, including those sold during the period.
(3) The majority of the net gains (losses) introduced loans, including those sold during the period.
(3) The majority of the net gains (losses) introduced loans in the composition of the net gains (losses) and environment of the period of charges in the Corporation's own credit spreads and the amount recognized in accumulated OCI, see Note 12 – Accumulated Other Comprehensive Income (Loss). For additional information on how the Corporation's own credit spread is determined, see Note 20 – Fair Value Measurements to the Corporation's 2017 Armust Report on Form 10 K.
(3) Includes gains (losses) on federal funds sold and securities borrowed or purchased under agreements to repurchase, short-term borrowings and unfunded loan commitments.

Gains (Losses) Related to Borrower-specific Credit Risk for Assets Accounted for Under the Fair Value Option

	Three Mon	ths En	ded Se	ptember 30	Nine Months En	ded Se	ptember 30
(Dollars in millions)	2018			2017	2018		2017
Loans reported as trading account assets	\$	36	\$	5	\$ 47	\$	25
Consumer and commercial loans		8		(10)	(19)		31
Loans held-for-sale		5		(2)	6		(3)

NOTE 16 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 at September 30, 2018 and December 31, 2017 is carried at fair value on the Consolidated Balance Sheet. Certain loans, deposits,

long term debt and loan 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 2017 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 September 30, 2018 and December 31, 2017 are presented in the following table.

Fair Value of Financial Instruments

					Fair Value	
	Ca	rrying Value	Level 2		Level 3	Total
(Dollars in millions)			Septembe	er 30, :	2018	
Financial assets						
Loans	\$	895,452	\$ 59,840	\$	839,262	\$ 899,102
Loans held-for-sale		5,576	4,287		1,331	5,618
Financial liabilities						
Deposits (1)		1,345,649	1,345,360		_	1,345,360
Longtermdebt		234,100	238,908		923	239,831
Commercial unfunded lending commitments (2)		862	70		4,345	4,415
			Decembe	er 31, 20)17	
Financial assets						
Loans	\$	904,399	\$ 68,586	\$	849,576	\$ 918,162
Loans held-for-sale		11,430	10,521		909	11,430
Financial liabilities						
Deposits (1)		1,309,545	1,309,398		_	1,309,398
Longtermdebt		227,402	235,126		1,863	236,989
Commercial unfunded lending commitments (2)		897	120		3,908	4,028

⁽¹⁾ Includes demand deposits of \$53.4 billion and \$519.6 billion with no stated maturities at September 30, 2018 and December 31, 2017.
(2) The carrying value is included in accrued expenses and other liabilities on the Consolidated Balance Sheet. For more information on commitments, see Note 10 – Commitments and Contingencies.

NOTE 17 Business Segment Information

The Corporation reports its results of operations through the following four business segments: Consumer Banking, GWM, 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 2017 Annual Report on Form 10-K. The following tables present net income (loss) and the

components thereto (with net interest income on an FTE basis) for the three and nine months ended September 30, 2018 and 2017 and total assets at September 30, 2018 and 2017 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 September 30	 Total Corporation (1)				Consumer Banking				Global Wealth & Investment Management				
(Dollars in millions)	2018		2017		2018		2017		2018		2017		
Net interest income (FTE basis)	\$ 12,021	\$	11,401	\$	6,863	\$	6,212	\$	1,536	\$	1,496		
Noninterest income	10,907		10,678		2,540		2,562		3,247		3,124		
Total revenue, net of interest expense (FTE basis)	22,928		22,079		9,403		8,774		4,783		4,620		
Provision for credit losses	716		834		870		967		13		16		
Noninterest expense	13,067		13,394		4,355		4,461		3,414		3,369		
Income before income taxes (FTE basis)	9,145		7,851		4,178		3,346		1,356		1,235		
Income tax expense (FTE basis)	1,978		2,427		1,065		1,260		346		465		
Net income	\$ 7,167	\$	5,424	\$	3,113	\$	2,086	\$	1,010	\$	770		
Period-end total assets	\$ 2,338,833	\$	2,284,174	\$	765,497	\$	742,513	\$	276,146	\$	276,187		

	Global Banking					Global Markets					
	 2018		2017		2018		2017		2018		2017
Net interest income (FTE basis)	\$ 2,706	\$	2,642	\$	754	\$	899	\$	162	\$	152
Noninterest income (loss)	2,032		2,345		3,089		3,002		(1)		(355)
Total revenue, net of interest expense (FTE basis)	4,738		4,987		3,843		3,901		161		(203)
Provision for credit losses	(70)		48		(2)		(6)		(95)		(191)
Noninterest expense	2,120		2,119		2,612		2,711		566		734
Income (loss) before income taxes (FTE basis)	2,688		2,820		1,233		1,196		(310)		(746)
Income tax expense (benefit) (FTE basis)	699		1,062		321		440		(453)		(800)

Net income	\$ 1,989	\$ 1,758	\$ 912	\$ 756	\$ 143	\$ 54
Period-end total assets	\$ 430,846	\$ 423,185	\$ 646,359	\$ 629,222	\$ 219,985	\$ 213,067

(1) There were no material intersegment revenues.

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Results of Business Segments and All Other

At and for the nine months ended September 30	 Total Corporation (1)				Consum	nking	Global Wealth & Investment Management				
(Dollars in millions)	2018		2017		2018		2017		2018		2017
Net interest income (FTE basis)	\$ 35,583	\$	33,879	\$	19,993	\$	17,953	\$	4,673	\$	4,653
Noninterest income	33,383		33,711		7,653		7,614		9,675		9,254
Total revenue, net of interest expense (FTE basis)	68,966		67,590		27,646		25,567		14,348		13,907
Provision for credit losses	2,377		2,395		2,749		2,639		63		50
Noninterest expense	40,248		41,469		13,231		13,286		10,235		10,085
Income before income taxes (FTE basis)	26,341		23,726		11,666		9,642		4,050		3,772
Income tax expense (FTE basis)	5,472		7,859		2,975		3,636		1,033		1,422
Net income	\$ 20,869	\$	15,867	\$	8,691	\$	6,006	\$	3,017	\$	2,350
Period-end total assets	\$ 2,338,833	\$	2,284,174	\$	765,497	\$	742,513	\$	276,146	\$	276,187

	 Global	Banki	ng	Global Markets			 All Other			
	2018		2017		2018		2017	2018		2017
Net interest income (FTE basis)	\$ 8,057	\$	7,786	\$	2,425	\$	2,812	\$ 435	\$	675
Noninterest income (loss)	6,537		7,194		10,425		9,743	(907)		(94)
Total revenue, net of interest expense (FTE basis)	14,594		14,980		12,850		12,555	(472)		581
Provision for credit losses	(77)		80		(6)		2	(352)		(376)
Noninterest expense	6,471		6,435		8,145		8,117	2,166		3,546
Income (loss) before income taxes (FTE basis)	8,200		8,465		4,711		4,436	(2,286)		(2,589)
Income tax expense (benefit) (FTE basis)	2,132		3,192		1,225		1,553	(1,893)		(1,944)
Net income (loss)	\$ 6,068	\$	5,273	\$	3,486	\$	2,883	\$ (393)	\$	(645)
Period-end total assets	\$ 430,846	\$	423,185	\$	646,359	\$	629,222	\$ 219,985	\$	213,067
(1) There were no material intersegment revenues.										

Business Segment Reconciliations

	1	ded S	Nine Months Ended September 30					
(Dollars in millions)	2018 201			2017		2018	2017	
Segments' total revenue, net of interest expense (FTE basis)	\$	22,767	\$	22,282	\$	69,438	\$	67,009
Adjustments (1):								
ALMactivities		273		273		118		332
Liquidating businesses, eliminations and other		(112)		(476)		(590)		249
FTE basis adjustment		(151)		(240)		(455)		(674)
Consolidated revenue, net of interest expense	\$	22,777	\$	21,839	\$	68,511	\$	66,916
Segments' total net income		7,024		5,370		21,262		16,512
Adjustments, net-of-taxes (1):								
ALMactivities		88		57		(294)		(208)
Liquidating businesses, eliminations and other		55		(3)		(99)		(437)
Consolidated net income	\$	7,167	\$	5,424	\$	20,869	\$	15,867

	Septe	mber 30)
	 2018		2017
legments' total assets	\$ 2,118,848	\$	2,071,107
digustments (1):			
ALMactivities, including securities portfolio	675,886		635,353
Elimination of segment asset allocations to match liabilities	(531,297)		(515,007)
Other	75,396		92,721
Consolidated total assets	\$ 2,338,833	\$	2,284,174

 $[\]hline {}^{(1)} \ \ \text{Adjustments include consolidated income, expense and asset amounts not specifically allocated to individual business segments. }$

Noninterest Income by Business Segment and All Other

	Total Corporation					er Bar	nking	Global Wealth & Investment Management				
				Th	ree Months En	ded S	eptember 30					
(Dollars in millions)	2018		2017		2018		2017		2018		2017	
Card income												
Interchange fees	\$ 978	\$	941	\$	802	\$	768	\$	22	\$	29	
Other card income	492		488		479		475		11		11	
Total card income	1,470		1,429		1,281		1,243		33		40	
Service charges												
Deposit-related fees	1,682		1,691		1,098		1,082		19		19	
Lendingrelated fees	279		277		_		_		_		_	
Total service charges	1,961		1,968		1,098		1,082		19		19	
Investment and brokerage services												
Asset management fees	2,576		2,367		38		34		2,538		2,333	
Brokerage fees	918		1,070		42		40		466		521	
Total investment and brokerage services	3,494		3,437		80		74		3,004		2,854	
Investment banking income												
Underwriting income	701		698		_		_		87		100	
Syndication fees	241		405		_		_		-		_	
Financial advisory services	262		374		-		_		1		-	
Total investment banking income	1,204		1,477		_		_		88		100	
Trading account profits	1,893		1,837		2		1		24		29	
Other income	885		530		79		162		79		82	
Total noninterest income	\$ 10,907	\$	10,678	\$	2,540	\$	2,562	\$	3,247	\$	3,124	

	Global	Banking	5		Global	Marke	ets	All Other (1)				
				Thi	ree Months End	ied Se	ptember 30					
	2018		2017		2018		2017		2018		2017	
Card income												
Interchange fees	\$ 130	\$	122	\$	24	\$	22	\$	_	\$	_	
Other card income	2		2		(1)		_		1		_	
Total card income	132		124		23		22		1		_	
Service charges												
Deposit-related fees	520		546		41		38		4		6	
Lending related fees	234		230		45		47		-		_	
Total service charges	754		776		86		85		4		6	
Investment and brokerage services												
Asset management fees	_		_		_		_		_		_	
Brokerage fees	28		18		388		496		(6)		(5)	
Total investment and brokerage services	28		18		388		496		(6)		(5)	
Investment banking income												
Underwritingincome	189		105		474		545		(49)		(52)	
Syndication fees	217		380		25		26		(1)		(1)	
Financial advisory services	237		321		24		53		_		_	
Total investment banking income	643		806		523		624		(50)		(53)	
Trading account profits	59		(5)		1,727		1,714		81	_	98	
Other income	 416		626		342		61		(31)		(401)	
Total noninterest income	\$ 2,032	\$	2,345	\$	3,089	\$	3,002	\$	(1)	\$	(355)	

 $[\]ensuremath{^{(1)}}$ All Other includes eliminations of intercompany transactions.

Noninterest Income by Business Segment and All Other

	 Total Corporation					Consumer Banking					ı & gement
				Nine	e Months End	led Se	eptember 30				
(Dollars in millions)	2018	118 2017		2018		2017		2018			2017
Card income											
Interchange fees	\$ 3,018	\$	2,883	\$	2,488	\$	2,352	\$	59	\$	79
Other card income	1,451		1,464		1,414		1,364		33		31
Total card income	4,469		4,347		3,902		3,716		92		110
Service charges											
Deposit-related fees	5,009		5,040		3,214		3,194		55		57
Lending related fees	827		823		_		_		_		_
Total service charges	5,836		5,863		3,214		3,194		55		57
Investment and brokerage services											
Asset management fees	7,652		6,855		111		98		7,541		6,757
Brokerage fees	2,964		3,459		131		135		1,440		1,717
Total investment and brokerage services	10,616		10,314		242		233		8,981		8,474
Investment banking income											
Underwriting income	2,160		2,185		_		_		243		246
Syndication fees	958		1,146		_		_		_		_
Financial advisory services	861		1,262		_		_		1		1
Total investment banking income	3,979		4,593		_		_		244		247
Trading account profits	6,907		6,124		6		2		81		120
Other income	1,576		2,470		289		469		222		246
Total noninterest income	\$ 33,383	\$	33,711	\$	7,653	\$	7,614	\$	9,675	\$	9,254

	Global Banking				Global	ets	All Other (1)			
				Nir	ne Months End	ed Se	eptember 30			
	 2018		2017		2018		2017	2018		2017
Card income										
Interchange fees	\$ 400	\$	375	\$	71	\$	68	\$ _	\$	9
Other card income	5		8		(1)		(1)	-		62
Total card income	405		383		70		67	-		71
Service charges										
Deposit-related fees	1,598		1,662		126		111	16		16
Lending related fees	687		689		140		134	-		_
Total service charges	2,285		2,351		266		245	16		16
Investment and brokerage services										
Asset management fees	_		_		_		_	_		_
Brokerage fees	71		72		1,306		1,548	16		(13)
Total investment and brokerage services	71		72		1,306		1,548	16		(13)
Investment banking income										
Underwriting income	458		404		1,637		1,729	(178)		(194)
Syndication fees	890		1,080		68		66	_		_
Financial advisory services	782		1,177		78		84	_		_
Total investment banking income	2,130		2,661		1,783		1,879	(178)		(194)
Trading account profits	184		82		6,614		5,634	22		286
Other income	1,462		1,645		386		370	(783)		(260)
Total noninterest income	\$ 6,537	\$	7,194	\$	10,425	\$	9,743	\$ (907)	\$	(94)

⁽¹⁾ All Other includes eliminations of intercompany transactions.

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

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

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

Held-to-maturity

ABS Asset-backed securities **IRLC** Interest rate lock commitment ISDA AFS Available-for-sale International Swaps and Derivatives Association, Inc. Asset and liability management ALM LCR Liquidity Coverage Ratio **AUM** Assets under management **LHFS** Loans held-for-sale **BANA** Bank of America, National Association LIBOR London InterBank Offered Rate **BHC** Bank holding company LTV Loan-to-value MBS basis points bps Mortgage-backed securities MD&A **CCAR** Comprehensive Capital Analysis and Review Management's Discussion and Analysis of Financial Condition and Results of Operations CDO Collateralized debt obligation **MLGWM** Merrill Lynch Global Wealth Management CET1 Common equity tier 1 MLI CLTV Merrill Lynch International Combined Ioan-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 Financial Accounting Standards Board **FASB** OAS Option-adjusted spread FHA Federal Housing Administration OCI Other comprehensive income **FHLB** Federal Home Loan Bank OREO Other real estate owned **FHLMC** Freddie Mac OTC Over-the-counter FICC Fixed-income, currencies and commodities ОТП Other-than-temporary impairment FICO Fair Isaac Corporation (credit score) **PCA** Prompt Corrective Action **FNMA** Fannie Mae PCI Purchased credit-impaired FTE Fully taxable-equivalent **RMBS** Residential mortgage-backed securities FVA Funding valuation adjustment **SBLC** Standby letter of credit GAAP Accounting principles generally accepted in the United States of SCCL Single-counterparty credit limits America GLS SEC Global Liquidity Sources Securities and Exchange Commission Government National Mortgage Association **GNMA** SLR Supplementary leverage ratio **GSE** Government-sponsored enterprise TDR Troubled debt restructurings G-SIB Global systemically important bank TLAC Total loss-absorbing capacity **GWIM** Global Wealth & Investment Management VaR Value-at-Risk **HELOC** VIE Home equity line of credit Variable interest entity **HQLA** High Quality Liquid Assets нтм

Part II. Other Information

Bank of America Corporation and Subsidiaries

Item 1. Legal Proceedings

See Litigation and Regulatory Matters in Note 10 - 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 2017 Annual Report on Form 10-K and Note 10 - Commitments and Contingencies to the Consolidated Financial Statements of the Corporation's Quarterly Reports on Form 10-Q for the quarters ended June 30, 2018 and March 31, 2018.

Item 1A. Risk Factors

There are no material changes from the risk factors set forth under Part 1, Item 1A Risk Factors of the Corporation's 2017 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 September 30, 2018. 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-Avera Per Share Pric			Remaining Buyback Authority Amounts (2)		
July 1-31, 2018	32,160	\$ 30	32,160	\$	19,625		
August 1-31, 2018	76,287	31	.07 72,831		17,360		
September 1-30, 2018	58,578	30	1.74 58,558	<u></u>	15,560		
Three months ended September 30, 2018	167.025	30.	81 163.549				

The Corporation did not have any unregistered sales of equity securities during the three months ended September 30, 2018.

⁽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 awards and for potential resistance to certain employees under equity incentive plans.

(2) On June 28, 2018, following the Federal Reserve's non-objection to our 2018 Comprehensive Capital Analysis and Review (CCAR) capital plan, the Board authorized the repurchase of approximately \$20.6 billion in common stock from July 1, 2018 through June 30, 2019, including approximately \$600 million to offset the effect of equity-based compensation plans during the same period. During the three months ended September 30, 2018, pursuant to the Board's authorization, the Corporation repurchased \$5.0 billion of common stock which included common stock to offset equity-based compensation awards. For additional information, see Capital Management – CCAR and Capital Ranning on page 22 and Note 11 – Shareholders' Equity to the Consolidated Financial Statements.

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	
11	Earnings Per Share Computation – included in Note 13 – Earnings Per Common Share to the Consolidated Financial Statements	1					
12	Ratio of Earnings to Fixed Charges Ratio of Earnings to Fixed Charges and Preferred Dividends	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	1					
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 with	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: October 29, 2018 /s/ Rudolf A Bless

Rudolf A Bless Chief Accounting Officer