UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-Q

(Mark One)

☑ QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES **EXCHANGE ACT OF 1934** For the Quarterly Period Ended September 30, 2023

or

☐ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES **EXCHANGE ACT OF 1934** to

For the transition period from

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:

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, par value \$0.01 per share	BAC	New York Stock Exchange
Depositary Shares, each representing a 1/1,000th interest in a share	BAC PrE	New York Stock Exchange
of Floating Rate Non-Cumulative Preferred Stock, Series E		
Depositary Shares, each representing a 1/1,000th interest in a share	BAC PrB	New York Stock Exchange
of 6.000% Non-Cumulative Preferred Stock, Series GG		
Depositary Shares, each representing a 1/1,000th interest in a share	BAC PrK	New York Stock Exchange
of 5.875% Non-Cumulative Preferred Stock, Series HH		
7.25% Non-Cumulative Perpetual Convertible Preferred Stock, Series L	BAC PrL	New York Stock Exchange
Depositary Shares, each representing a 1/1,200th interest in a share	BML PrG	New York Stock Exchange
of Bank of America Corporation Floating Rate		
Non-Cumulative Preferred Stock, Series 1		

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Depositary Shares, each representing a 1/1,200th interest in a share	BML PrH	New York Stock Exchange
of Bank of America Corporation Floating Rate		
Non-Cumulative Preferred Stock, Series 2		
Depositary Shares, each representing a 1/1,200th interest in a share	BML PrJ	New York Stock Exchange
of Bank of America Corporation Floating Rate		
Non-Cumulative Preferred Stock, Series 4		
Depositary Shares, each representing a 1/1,200th interest in a share	BML PrL	New York Stock Exchange
of Bank of America Corporation Floating Rate		
Non-Cumulative Preferred Stock, Series 5		
Floating Rate Preferred Hybrid Income Term Securities of BAC Capital	BAC/PF	New York Stock Exchange
Trust XIII (and the guarantee related thereto)		
5.63% Fixed to Floating Rate Preferred Hybrid Income Term Securities	BAC/PG	New York Stock Exchange
of BAC Capital Trust XIV (and the guarantee related thereto)		
Income Capital Obligation Notes initially due December 15, 2066 of	MER PrK	New York Stock Exchange
Bank of America Corporation		
Senior Medium-Term Notes, Series A, Step Up Callable Notes, due	BAC/31B	New York Stock Exchange
November 28, 2031 of BofA Finance LLC (and the guarantee		
of the Registrant with respect thereto)		
epositary Shares, each representing a 1/1,000th interest in a share of	BAC PrM	New York Stock Exchange
5.375% Non-Cumulative Preferred Stock, Series KK		
Depositary Shares, each representing a 1/1,000th interest in a share	BAC PrN	New York Stock Exchange
of 5.000% Non-Cumulative Preferred Stock, Series LL		
epositary Shares, each representing a 1/1,000th interest in a share of	BAC PrO	New York Stock Exchange
4.375% Non-Cumulative Preferred Stock, Series NN		
epositary Shares, each representing a 1/1,000th interest in a share of	BAC PrP	New York Stock Exchange
4.125% Non-Cumulative Preferred Stock, Series PP		
epositary Shares, each representing a 1/1,000th interest in a share of	BAC PrQ	New York Stock Exchange
4.250% Non-Cumulative Preferred Stock, Series QQ		
Depositary Shares, each representing a 1/1,000th interest in a share	BAC PrS	New York Stock Exchange
of 4.750% Non-Cumulative Preferred Stock, Series SS		
licate by check mark whether the registrant (1) has filed all repo change Act of 1934 during the preceding 12 months (or for su ports), and (2) has been subject to such filing requirements for the	ch shorter period th	

reports), and (2) has been subject to such fil	ling requirements for th	ne past 90 days.		
	Yes ☑	No □		
Indicate by check mark whether the registre pursuant to Rule 405 of Regulation S-T (§ 2) the registrant was required to submit such fi	32.405 of this chapter		•	
	Yes ☑	No □		
Indicate by check mark whether the registra reporting company, or an emerging growth reporting company," and "emerging growth c	company. See the det	initions of "large accele		
Large accelerated filer Accele	rated filer 🗆	Non-accelerated filer	☐ Smaller reporting company ☐	
			Emerging growth company \Box	
If an emerging growth company, indicate by complying with any new or revised financial a			•	
Indicate by check mark whether the registran	nt is a shell company (a	as defined in Exchange /	Act Rule 12b-2).	
	Yes □	No ✓		

On October 30, 2023, there were 7,913,732,014 shares of Bank of America Corporation Common Stock outstanding.

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Bank of America Corporation and Subsidiaries September 30, 2023 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." Forwardlooking statements represent the Corporation's current expectations, plans or forecasts of its future results, revenues, liquidity, net interest income, provision for credit losses, expenses, efficiency ratio, capital measures, strategy, deposits, assets, 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 the Corporation's 2022 Annual Report on Form 10-K and in any of the Corporation's subsequent Securities and Exchange Commission filings: the Corporation's potential judgments, orders, settlements, penalties, fines and reputational damage resulting from pending or future litigation and regulatory investigations, proceedings and enforcement actions, including as a result of our participation in and execution of government programs related to the Coronavirus Disease 2019 (COVID-19) pandemic, such as the processing of unemployment benefits for California and certain other states; the possibility that the Corporation's future liabilities may be in excess of its recorded liability and estimated range of possible loss for litigation, and regulatory and government actions; the possibility that the Corporation could face increased claims from one or more parties involved in mortgage securitizations; the Corporation's ability to resolve representations and warranties repurchase and related claims; the risks related to the discontinuation of reference rates, including increased expenses and litigation and the effectiveness of hedging strategies; uncertainties about the financial stability and growth rates of non-U.S. jurisdictions, the risk that those jurisdictions may face difficulties servicing their sovereign debt, and related stresses on financial markets, currencies and trade, and the Corporation's exposures to such risks, including direct, indirect and operational; the impact of U.S. and global interest rates, inflation, currency exchange rates, economic conditions, trade policies and tensions, including tariffs, and potential geopolitical instability; the impact of the interest rate, inflationary, macroeconomic, banking and regulatory environment on the Corporation's assets, business,

financial condition and results of operations; the impact of adverse developments affecting the U.S. or global banking industry, including bank failures and liquidity concerns, resulting in worsening economic and market volatility, and regulatory responses thereto; 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, including the impact of supply chain disruptions, inflationary pressures and labor shortages on economic conditions and our business; potential losses related to the Corporation's concentration of credit risk; the Corporation's ability to achieve its expense targets and expectations regarding revenue, net interest income, provision for credit losses, net charge-offs, effective tax rate, loan growth or other projections; adverse changes to the Corporation's credit ratings from the major credit rating agencies; an inability to access capital markets or maintain deposits or borrowing costs; estimates of the fair value and other accounting values, subject to impairment assessments, of certain of the Corporation's assets and liabilities; the estimated or actual impact of changes in accounting standards or assumptions in applying those standards; uncertainty regarding the content, timing and impact of regulatory capital and liquidity requirements; the impact of adverse changes to total loss-absorbing capacity requirements, stress capital buffer requirements and/or global systemically important bank surcharges; the potential impact of actions of the Board of Governors of the Federal Reserve System on the Corporation's capital plans: the effect of changes in or interpretations of income tax laws and regulations; 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, derivatives regulations and potential changes to loss allocations between financial institutions and customers, including for losses incurred from the use of our products and services, including Zelle, that were authorized by the customer but induced by fraud; the impact of failures or disruptions in or breaches of the Corporation's operational or security systems, data or infrastructure, or those of third parties, including as a result of cyberattacks or campaigns; the risks related to the transition and physical impacts of climate change; our ability to achieve environmental, social and governance goals and commitments or the impact of any changes in the Corporation's sustainability strategy or commitments generally; the impact of any future federal government shutdown and uncertainty regarding the federal government's debt limit or changes in fiscal, monetary or regulatory policy; the emergence or continuation of widespread health emergencies or pandemics; the impact of natural disasters, extreme weather events, military conflicts (including the Russia/Ukraine conflict, the conflict in Israel and surrounding areas, the possible expansion of such conflicts and potential

geopolitical consequences), terrorism or other geopolitical events; and other matters.

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

Notes to the Consolidated Financial Statements referred to in 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, "Bank of America," "the Corporation," "we," "us" and "our" 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 various bank and nonbank subsidiaries throughout the U.S. and in international markets, we provide a diversified range of banking and nonbank financial services and products through four business segments: Consumer Banking, Global Wealth & Investment Management (GWIM), Global Banking and Global Markets, with the remaining operations recorded in All Other. We operate our banking activities primarily under the Bank of America, National Association (Bank of America, N.A. or BANA) charter. At September 30, 2023, the Corporation had \$3.2 trillion in assets and a headcount of approximately 213,000 employees.

As of September 30, 2023, we served clients through operations across the U.S., its territories and more than 35 countries. Our retail banking footprint covers all major markets in the U.S., and we serve approximately 69 million consumer and small business clients with approximately 3,900 retail financial centers, approximately 15,000 ATMs, and leading digital banking platforms (www.bankofamerica.com) with approximately 46 million active users, including approximately 37 million active mobile users. We offer industry-leading support to approximately four million small business households. Our GWIM businesses, with client balances of \$3.6 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.

The Corporation's website is www.bankofamerica.com, and the Investor Relations portion of our website is https:// investor.bankofamerica.com. We use our website to distribute company information, including as a means of disclosing material, non-public information and for complying with our disclosure obligations under Regulation FD. We routinely post and make accessible financial and other information, including environmental, social and governance (ESG) information, regarding the Corporation on our website. Investors should monitor our website, including the Investor Relations portion, in addition to our press releases, U.S. Securities and Exchange Commission (SEC) filings, public conference calls and webcasts. Notwithstanding the foregoing, the information contained on our website as referenced in this paragraph is not incorporated by reference into this Quarterly Report on Form 10-Q.

Recent Developments

Capital Management

The Board of Governors of the Federal Reserve System (Federal Reserve) requires BHCs to submit a capital plan and planned capital actions on an annual basis, consistent with the rules governing the Comprehensive Capital Analysis and Review (CCAR) capital plan. On July 27, 2023, the Federal Reserve released final 2023 CCAR supervisory stress test results for Bank of America. Based on the results, our stress capital buffer (SCB) declined to 2.5 percent from 3.4 percent, resulting in a Common equity tier 1 (CET1) minimum requirement of 9.5 percent effective October 1, 2023.

On July 27, 2023, U.S. banking regulators issued proposed rules that would update future U.S. regulatory capital requirements, including the calculation of risk-weighted assets (RWA) and the global systemically important bank (G-SIB) surcharge. In addition, on August 29, 2023, U.S. banking regulators issued proposed rules that would update future total loss-absorbing capacity (TLAC) and eligible long-term debt requirements. For more information, see Capital Management – Regulatory Developments on page 26.

On October 18, 2023, the Corporation's Board of Directors (the Board) declared a quarterly common stock dividend of \$0.24 per share, payable on December 29, 2023 to shareholders of record as of December 1, 2023.

For more information on our capital resources, see Capital Management on page 22.

FDIC Special Assessment

As previously disclosed, in May 2023, the Federal Deposit Insurance Corporation (FDIC) issued a proposed rule that would impose a special assessment to recover the loss to the Deposit Insurance Fund arising from the protection of uninsured depositors of Silicon Valley Bank and Signature Bank associated with their closures, and the systemic risk determination announced by the FDIC in March 2023. While the timing and amount of any expense recognition are unknown until the proposed rule is finalized, if the final rule is issued as proposed, the estimated impact of the special assessment on the Corporation would be a noninterest expense of approximately \$1.9 billion that would be recognized upon finalization of the rule, which could occur in the fourth quarter of 2023. For more information, see *Note 10 – Commitments and Contingencies* to the Consolidated Financial Statements.

Table 1 Summary Income Statement and Selected Financial Data

	Thr	Three Months Ended September 30					Nine Months Ended September 30				
(Dollars in millions, except per share information)		2023	2022			2023		2022			
Income statement											
Net interest income	\$	14,379	\$	13,765	\$	42,985	\$	37,781			
Noninterest income		10,788		10,737		33,637		32,637			
Total revenue, net of interest expense		25,167		24,502		76,622		70,418			
Provision for credit losses		1,234		898		3,290		1,451			
Noninterest expense		15,838		15,303		48,114		45,895			
Income before income taxes		8,095		8,301		25,218		23,072			
Income tax expense		293		1,219		1,847		2,676			
Net income		7,802		7,082		23,371		20,396			
Preferred stock dividends		532		503		1,343		1,285			
Net income applicable to common shareholders	\$	7,270	\$	6,579	\$	22,028	\$	19,111			
Per common share information											
Earnings	\$	0.91	\$	0.81	\$	2.74	\$	2.35			
Diluted earnings		0.90		0.81		2.72		2.34			
Dividends paid		0.24		0.22		0.68		0.64			
Performance ratios											
Return on average assets (1)		0.99 %	ó	0.90 %		1.00 %		0.86 %			
Return on average common shareholders' equity (1)		11.24		10.79		11.63		10.58			
Return on average tangible common shareholders' equity (2)		15.47		15.21		16.09		14.93			
Efficiency ratio (1)		62.93		62.45		62.79		65.17			
					S	eptember 30 2023	D	ecember 31 2022			
Balance sheet											
Total loans and leases					\$	1,049,149	\$	1,045,747			
Total assets						3,153,090		3,051,375			
Total deposits						1,884,601		1,930,341			
Total liabilities						2,866,026		2,778,178			
Total common shareholders' equity						258,667		244,800			
Total shareholders' equity						287,064		273,197			

⁽¹⁾ For definitions, see Key Metrics on page 106.

Net income was \$7.8 billion and \$23.4 billion, or \$0.90 and \$2.72 per diluted share, for the three and nine months ended September 30, 2023 compared to \$7.1 billion and \$20.4 billion, or \$0.81 and \$2.34 per diluted share, for the same periods in 2022. The increase in net income was primarily due to higher net interest income and noninterest income, partially offset by higher noninterest expense and provision for credit losses.

Total assets increased \$101.7 billion from December 31, 2022 to \$3.2 trillion primarily driven by higher cash and cash equivalents to support balance sheet and liquidity positioning, as well as higher securities financing activity.

Total liabilities increased \$87.8 billion from December 31, 2022 to \$2.9 trillion primarily driven by higher securities financing activity and higher long-term debt and short-term borrowings to support balance sheet and liquidity positioning, partially offset by lower deposits primarily due to an increase in customer spending and debt payments, customers' movement of balances to higher yielding investment alternatives and seasonal outflows.

Shareholders' equity increased \$13.9 billion from December 31, 2022 primarily due to an increase in net income, partially offset by returns of capital to shareholders through common and preferred stock dividends and common stock repurchases.

Net Interest Income

Net interest income increased \$614 million to \$14.4 billion. and \$5.2 billion to \$43.0 billion for the three and nine months ended September 30, 2023 compared to the same periods in 2022. Net interest yield on a fully taxable-equivalent (FTE) basis increased 5 basis points (bps) to 2.11 percent and 25 bps to 2.12 percent for the three and nine months ended September 30, 2023. The increases were primarily driven by benefits from higher interest rates and loan growth, partially offset by higher funding costs, lower deposits and net interest income related to Global Markets activity. For more information on net interest yield and FTE basis, see Supplemental Financial Data on page 7, and for more information on interest rate risk management, see Interest Rate Risk Management for the Banking Book on page 46.

Return on average tangible common shareholders' equity is a non-GAAP financial measure. For more information and a corresponding reconciliation to the most closely related financial measures defined by accounting principles generally accepted in the United States of America (GAAP), see Non-GAAP Reconciliations on page 49

Noninterest Income

Table 2 Noninterest Income

	Three	Months Ende	Nine Months Ended September 30				
(Dollars in millions)		2023	2022			2023	2022
Fees and commissions:							
Card income	\$	1,520	\$	1,573	\$	4,535	4,531
Service charges		1,464		1,466		4,238	5,016
Investment and brokerage services		3,963		3,795		11,654	12,178
Investment banking fees		1,188		1,167		3,563	3,752
Total fees and commissions		8,135		8,001		23,990	25,477
Market making and similar activities		3,325		3,068		11,734	9,023
Other income		(672)		(332)		(2,087)	(1,863)
Total noninterest income	\$	10,788	\$	10,737	\$	33,637	32,637

Noninterest income increased \$51 million to \$10.8 billion and \$1.0 billion to \$33.6 billion for the three and nine months ended September 30, 2023 compared to the same periods in 2022. The following highlights the significant changes.

- Service charges decreased \$778 million for the nine-month period primarily driven by the impact of non-sufficient funds and overdraft policy changes, as well as lower treasury service charges.
- Investment and brokerage services increased \$168 million for the three-month period primarily driven by higher asset management fees due to higher average market levels and the impact of positive assets under management (AUM) flows, partially offset by lower brokerage fees. The ninemonth period decreased \$524 million primarily driven by lower asset management fees and brokerage fees due to lower average equity and fixed income market levels and transactional volumes, partially offset by the impact of positive AUM flows.
- Investment banking fees decreased \$189 million for the nine-month period primarily due to lower debt issuance and advisory fees, partially offset by higher equity issuance fees.
- Market making and similar activities increased \$257 million and \$2.7 billion primarily driven by improved trading in credit and mortgage products in Fixed Income, Currencies and Commodities (FICC) and by the impact of higher interest rates on client financing activities in Equities.

 Other income decreased \$340 million and \$224 million primarily due to higher partnership losses on ESG investments and losses on sales of available-for-sale (AFS) debt securities in the nine-month period, partially offset by certain negative valuation adjustments in the prior-year periods.

Provision for Credit Losses

The provision for credit losses increased \$336 million to \$1.2 billion and \$1.8 billion to \$3.3 billion for the three and nine months ended September 30, 2023 compared to the same periods in 2022. The provision for credit losses for the currentyear periods was driven by our consumer portfolio primarily due to credit card loan growth and asset quality, partially offset by certain improved macroeconomic conditions that primarily benefited our commercial portfolio. In addition, provision for credit losses for the three months ended September 30, 2023 benefited from commercial net paydowns. For the three-month period in the prior year, the provision for credit losses was primarily driven by loan growth and a dampened macroeconomic outlook, and the nine-month period in the prior year was driven by the same factors as well as a reserve build related to Russian exposure, partially offset by asset quality improvement and reduced COVID-19 pandemic uncertainties. For more information on the provision for credit losses, see Allowance for Credit Losses on page 42.

Noninterest Expense

Table 3 Noninterest Expense

	Thre	e Months En	ded Se	eptember 30	Nine Months Ended September 30				
(Dollars in millions)	2023		2022		2023			2022	
Compensation and benefits	\$	9,551	\$	8,887	\$	28,870	\$	27,286	
Occupancy and equipment		1,795		1,777		5,370		5,285	
Information processing and communications		1,676		1,546		5,017		4,621	
Product delivery and transaction related		880		892		2,726		2,749	
Marketing		501		505		1,472		1,365	
Professional fees		545		525		1,609		1,493	
Other general operating		890		1,171		3,050		3,096	
Total noninterest expense	\$	15,838	\$	15,303	\$	48,114	\$	45,895	

Noninterest expense increased \$535 million to \$15.8 billion for the three months ended September 30, 2023 compared to the same period in 2022 primarily due to higher investments in people and technology, higher FDIC expense and costs related to a liquidating business activity, partially offset by lower litigation expense. For the nine months ended September 30,

2023, noninterest expense increased \$2.2 billion to \$48.1 billion compared to the same period in 2022 primarily due to higher investments in people and technology and higher FDIC expense, partially offset by lower litigation expense and revenue-related compensation.

Income Tax Expense

Table 4 Income Tax Expense

	Three	Months En	ded Se	ptember 30	Nin	ne Months En	ded S	eptember 30	
(Dollars in millions)		2023		2022		2023		2022	
Income before income taxes	\$	8,095	\$	8,301	\$	25,218	\$	23,072	
Income tax expense		293		1,219		1,847		2,676	
Effective tax rate		3.6 %		14.7 %		7.3 %	ò	11.6 %	

The effective tax rates for the three and nine months ended September 30, 2023 and 2022 were primarily driven by our recurring tax preference benefits that mainly consist of tax credits from ESG investments in affordable housing and renewable energy. The three and nine months ended September 30, 2023 also included discrete benefits of \$212 million and \$422 million primarily related to certain U.S. state law changes

in the three-month period, as well as other discrete benefits primarily related to resolution of U.S. federal and state tax matters in the nine-month period. Absent the ESG tax credits and discrete tax benefits, the effective tax rates would have been 25 percent for both the three months ended September 30, 2023 and 2022, and 26 percent and 25 percent for the nine months ended September 30, 2023 and 2022.

Supplemental Financial Data

Non-GAAP Financial Measures

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.

When presented on a consolidated basis, we view net interest income on an FTE basis as a non-GAAP financial measure. To derive the FTE basis, net interest income is adjusted to reflect tax-exempt income on an equivalent before-tax basis with a corresponding increase in income tax expense. For purposes of this calculation, we use the federal statutory tax rate of 21 percent and a representative state tax rate. Net interest yield, which measures the basis points we earn over the cost of funds, utilizes net interest income on an FTE basis. We believe that presentation of these items on an FTE basis allows for comparison of amounts from both taxable and tax-exempt sources and is consistent with industry practices.

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

We also evaluate our business based on certain ratios that utilize tangible equity, a non-GAAP financial measure. Tangible equity represents shareholders' equity or common shareholders' equity reduced by goodwill and intangible assets (excluding mortgage servicing rights (MSRs)), net of related deferred tax liabilities ("adjusted" shareholders' equity or common shareholders' equity). 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 objectives. These ratios are:

- Return on average tangible common shareholders' equity measures our net income applicable to common shareholders as a percentage of adjusted average common shareholders' equity. The tangible common equity ratio represents adjusted ending common shareholders' equity divided by total tangible assets.
- Return on average tangible shareholders' equity measures our net income as a percentage of adjusted average total shareholders' equity. The tangible equity ratio represents adjusted ending shareholders' equity divided by total tangible assets.
- Tangible book value per common share represents adjusted ending common shareholders' equity divided by ending common shares outstanding.

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

The aforementioned supplemental data and performance measures are presented in Table 5 on page 8.

For more information on the reconciliation of these non-GAAP financial measures to the corresponding GAAP financial measures, see Non-GAAP Reconciliations on page 49.

Key Performance Indicators

We present certain key financial and nonfinancial performance indicators (key performance indicators) that management uses when assessing our consolidated and/or segment results. We believe they are useful to investors because they provide additional information about our underlying operational performance and trends. These key performance indicators (KPIs) may not be defined or calculated in the same way as similar KPIs used by other companies. For information on how these metrics are defined, see Key Metrics on page 106.

Our consolidated key performance indicators, which include various equity and credit metrics, are presented in Table 1 on page 4 and Table 5 on page 8.

For information on key segment performance metrics, see Business Segment Operations on page 11.

Table 5 Selected Financial Data

		2023 Quarters		2022 Quarters		Nine Months Ended September 30			
(In millions, except per share information)	Third	Second	First	Fourth	Third	2023	2022		
Income statement									
Net interest income	\$ 14,379	\$ 14,158	\$ 14,448	\$ 14,681	\$ 13,765	\$ 42,985	\$ 37,781		
Noninterest income	10,788	11,039	11,810	9,851	10,737	33,637	32,637		
Total revenue, net of interest expense	25,167	25,197	26,258	24,532	24,502	76,622	70,418		
Provision for credit losses	1,234	1,125	931	1,092	898	3,290	1,451		
Noninterest expense	15,838	16,038	16,238	15,543	15,303	48,114	45,895		
Income before income taxes	8,095	8,034	9,089	7,897	8,301	25,218	23,072		
Income tax expense	293	626	928	765	1,219	1,847	2,676		
Net income	7,802	7,408	8,161	7,132	7,082	23,371	20,396		
Net income applicable to common shareholders	7,270	7,102	7,656	6,904	6,579	22,028	19,111		
Average common shares issued and outstanding	8,017.1	8,040.9	8,065.9	8,088.3	8,107.7	8,041.3	8,122.2		
Average diluted common shares issued and outstanding	8,075.9	8,080.7	8,182.3	8,155.7	8,160.8	8,153.4	8,173.3		
Performance ratios									
Return on average assets ⁽¹⁾	0.99 %		1.07 %	0.92 %	0.90 %	1.00 %	0.86 %		
Four-quarter trailing return on average assets (2)	0.98	0.96	0.92	0.88	0.87	n/a	n/a		
Return on average common shareholders' equity (1)	11.24	11.21	12.48	11.24	10.79	11.63	10.58		
Return on average tangible common shareholders' equity (3)	15.47	15.49	17.38	15.79	15.21	16.09	14.93		
Return on average shareholders' equity (1)	10.86	10.52	11.94	10.38	10.37	11.10	10.12		
Return on average tangible shareholders' equity (3)	14.41	14.00	15.98	13.98	13.99	14.78	13.68		
Total ending equity to total ending assets	9.10	9.07	8.77	8.95	8.77	9.10	8.77		
Common equity ratio (1)	8.20	8.16	7.88	8.02	7.82	8.20	7.82		
Total average equity to total average assets	9.11	8.89	8.95	8.87	8.73	8.99	8.54		
Dividend payout ⁽¹⁾	26.39	24.88	23.17	25.71	27.06	24.78	27.15		
Per common share data									
Earnings	\$ 0.91	\$ 0.88	\$ 0.95	\$ 0.85	\$ 0.81	\$ 2.74	\$ 2.35		
Diluted earnings	0.90	0.88	0.94	0.85	0.81	2.72	2.34		
Dividends paid	0.24	0.22	0.22	0.22	0.22	0.68	0.64		
Book value (1)	32.65	32.05	31.58	30.61	29.96	32.65	29.96		
Tangible book value ⁽³⁾									
	23.79	23.23	22.78	21.83	21.21	23.79	21.21		
Market capitalization	\$ 216,942	\$ 228,188	\$ 228,012	\$ 264,853	\$ 242,338	\$ 216,942	\$ 242,338		
Average balance sheet		** ** **	** ** **	** ***	** ***				
Total loans and leases	\$1,046,254	\$1,046,608	\$1,041,352	\$1,039,247	\$1,034,334				
Total assets	3,128,466	3,175,358	3,096,058	3,074,289	3,105,546				
Total deposits	1,876,153	1,875,353	1,893,649	1,925,544	1,962,775				
Long-term debt	245,819	248,480	244,759	243,871	250,204				
Common shareholders' equity	256,578	254,028	248,855	243,647	241,882				
Total shareholders' equity	284,975	282,425	277,252	272,629	271,017	_			
Asset quality									
Allowance for credit losses (4)	\$ 14,640	\$ 14,338	\$ 13,951	\$ 14,222	\$ 13,817				
Nonperforming loans, leases and foreclosed properties (5)	4,993	4,274	4,083	3,978	4,156				
Allowance for loan and lease losses as a percentage of total loans and leases outstanding $^{\left(5\right) }$	1.27 %	1.24 %	1.20 %	1.22 %	1.20 %				
Allowance for loan and lease losses as a percentage of total nonperforming		· · ·	0.0	222	000				
loans and leases (9)	275	314	319	333	309				
Net charge-offs Annualized net charge-offs as a percentage of average loans and leases	\$ 931	\$ 869	\$ 807	\$ 689	\$ 520				
outstanding (5)	0.35 %	0.33 %	0.32 %	0.26 %	0.20 %	_			
Capital ratios at period end (6)	44.4.	44.00	44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	44.00	44.00				
Common equity tier 1 capital	11.9 %		11.4 %	11.2 %	11.0 %				
Tier 1 capital	13.6	13.3	13.1	13.0	12.8				
Total capital	15.4	15.1	15.0	14.9	14.7				
Tier 1 leverage	7.3	7.1	7.1	7.0	6.8				
Supplementary leverage ratio	6.2	6.0	6.0	5.9	5.8				
Tangible equity ⁽³⁾	7.0	7.0	6.7	6.8	6.6				
Tangible common equity ⁽³⁾	6.1	6.1	5.8	5.9	5.7	_			
Total loss-absorbing capacity and long-term debt metrics									
Total loss-absorbing capacity to risk-weighted assets	29.3 %	28.8 %	28.8 %	29.0 %	28.9 %				
Total loss-absorbing capacity to supplementary leverage exposure	13.3	13.0	13.1	13.2	13.0				
Eligible long-term debt to risk-weighted assets	14.8	14.6	14.8	15.2	15.2				
Eligible long-term debt to supplementary leverage exposure	6.7	6.6	6.7	6.9	6.8				
(1) For definitions, see Key Metrics on page 106.									

 ⁽¹⁾ For definitions, see Key Metrics on page 106.
 (2) Calculated as total net income for four consecutive quarters divided by annualized average assets for four consecutive quarters.

⁽³⁾ Tangible equity ratios and tangible book value per share of common stock are non-GAAP financial measures. For more information on these ratios and corresponding reconciliations to GAAP financial measures, see Supplemental Financial Data on page 7 and Non-GAAP Reconciliations on page 49.

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

⁽⁵⁾ Balances and ratios do not include loans accounted for under the fair value option. For additional exclusions from nonperforming loans, leases and foreclosed properties, see Consumer Portfolio Credit Risk Management – Nonperforming Consumer Loans, Leases and Foreclosed Properties Activity on page 35 and corresponding Table 25 and Commercial Portfolio Credit Risk Management – Nonperforming Commercial Loans, Leases and Foreclosed Properties Activity on page 39 and corresponding Table 31.

(6) For more information, including which approach is used to assess capital adequacy, see Capital Management on page 22.

n/a = not applicable

Table 6 Quarterly Average Balances and Interest Rates - FTE Basis

		erage	In	nterest come/ pense (1)	Yield/ Rate		verage alance	- In	nterest ncome/ pense (1)	Yield/ Rate	
(Dollars in millions)				arter 2023	nato			nird Quarter 2022		Nate	
Earning assets			nu qu	aurtor 2020			•••		darro. Lozz		
Interest-bearing deposits with the Federal Reserve, non-U.S. central											
banks and other banks	\$ 3	353,183	\$	4,613	5.18 %	\$	184,263	\$	848	1.83 %	
Time deposits placed and other short-term investments		8.629		113	5.20		10,352		34	1.33	
Federal funds sold and securities borrowed or purchased under		,									
agreements to resell	2	287,403		4,888	6.75		278,059		1,446	2.06	
Trading account assets	:	191,283		2,244	4.66		163,744		1,465	3.55	
Debt securities	-	752,569		4,685	2.47		901,654		4,259	1.88	
Loans and leases (2)		•		,							
Residential mortgage	:	229,001		1,745	3.04		228,474		1,616	2.83	
Home equity	_	25,661		390	6.04		27,282		229	3.32	
Credit card		98,049		2,727	11.03		85,009		2,187	10.20	
Direct/Indirect and other consumer		104,134		1,354	5.16		108,300		923	3.38	
Total consumer		456,845		6,216	5.41		449,065		4,955	4.39	
U.S. commercial		377,728		5,061	5.32		377,183		3,427	3.60	
Non-U.S. commercial	-	123,781		2,088	6.69		127,793		1,028	3.19	
Commercial real estate (3)		74,088		1,364	7.30		66,707		738	4.39	
Commercial lease financing		13,812		166	4.79		13,586		124	3.65	
Total commercial	į	589,409		8,679	5.84		585,269		5,317	3.61	
Total loans and leases	1,0	046,254		14,895	5.65	1,	034,334		10,272	3.94	
Other earning assets		99,378		2,339	9.35		98,172		1,403	5.67	
Total earning assets	2,	738,699		33,777	4.90	2,	670,578		19,727	2.94	
Cash and due from banks		25,772					27,250				
Other assets, less allowance for loan and lease losses	:	363,995					407,718				
Total assets	\$ 3,2	128,466				\$3,	105,546				
Interest-bearing liabilities											
U.S. interest-bearing deposits											
Demand and money market deposits	\$ 9	942,368	\$	4,304	1.81 %	\$	981,145	\$	832	0.34 %	
Time and savings deposits	- 2	271,425		2,149	3.14		164,313		193	0.47	
Total U.S. interest-bearing deposits	1,2	213,793		6,453	2.11	1,	145,458		1,025	0.35	
Non-U.S. interest-bearing deposits		97,095		887	3.63		79,383		210	1.05	
Total interest-bearing deposits	1,3	310,888		7,340	2.22	1.	224,841		1,235	0.40	
Federal funds purchased and securities loaned or sold under agreements		,							<u> </u>		
to repurchase	2	294,878		5,342	7.19		211,346		1,338	2.51	
Short-term borrowings and other interest-bearing liabilities	:	140,513		2,287	6.45		137,253		926	2.68	
Trading account liabilities		48,084		510	4.21		46,507		383	3.27	
Long-term debt	:	245,819		3,766	6.10		250,204		1,974	3.14	
Total interest-bearing liabilities		040,182		19.245	3.75		870,151		5,856	1.24	
Noninterest-bearing sources		,					,		,		
Noninterest-bearing deposits	,	565,265					737,934				
Other liabilities (4)		238,044					226,444				
Shareholders' equity		284,975					271,017				
Total liabilities and shareholders' equity		128,466					105,546				
Net interest spread	Ψ 3,.	120,400			1.15 %	ΨΟ,	_00,040			1.70 %	
Impact of noninterest-bearing sources					0.96					0.36	
			¢	14 500				\$	13,871	2.06 %	
Net interest income/yield on earning assets (5) (1) Includes the impact of interest rate risk management contracts. For more information,			\$	14,532	2.11 %			Φ	13,6/1	∠.∪6 %	

⁽¹⁾ Includes the impact of interest rate risk management contracts. For more information, see Interest Rate Risk Management for the Banking Book on page 46.
(2) Nonperforming loans are included in the respective average loan balances. Income on these nonperforming loans is generally recognized on a cost recovery basis.
(3) Includes U.S. commercial real estate loans of \$67.9 billion and \$62.5 billion, and non-U.S. commercial real estate loans of \$6.2 billion and \$4.2 billion for the third quarter of 2023 and 2022.

⁽⁴⁾ Includes \$41.1 billion and \$29.2 billion of structured notes and liabilities for the third quarter of 2023 and 2022.
(5) Net interest income includes FTE adjustments of \$153 million and \$106 million for the third quarter of 2023 and 2022.

Table 7 Year-to-Date Average Balances and Interest Rates - FTE Basis

		verage Salance	h	nterest ncome/ pense ⁽¹⁾	Yield/ Rate	Average Balance		Interest Income/ Expense (1)	Yield/ Rate
					Months End	ed Septembe	r 30		
(Dollars in millions)			:	2023				2022	
Earning assets									
Interest-bearing deposits with the Federal Reserve, non-U.S. central	_		_			* • • • • • • • • • • • • • • • • • • •		4.040	0.00.0/
banks and other banks	\$	305,526	\$	10,915	4.78 %	\$ 202,29		•	0.80 %
Time deposits placed and other short-term investments		10,153		350	4.61	9,09	1	58	0.86
Federal funds sold and securities borrowed or purchased under		000 000		40.555	0.05	202.07	4	4 005	0.82
agreements to resell		289,823		13,555	6.25	293,97		1,835	0.83
Trading account assets		187,481		6,375	4.54	154,42		3,802	3.29
Debt securities		791,339		14,887	2.50	940,80	8	12,164	1.72
Loans and leases (2)							_		
Residential mortgage		229,010		5,133	2.99	227,01		4,712	2.77
Home equity		26,041		1,060	5.44	27,49		684	3.32
Credit card		94,775		7,658	10.80	81,50		6,081	9.97
Direct/Indirect and other consumer		104,896		3,814	4.86	107,20		2,198	2.74
Total consumer		454,722		17,665	5.19	443,21		13,675	4.12
U.S. commercial		377,873		14,318	5.07	362,66	9	8,079	2.98
Non-U.S. commercial		125,525		5,815	6.19	124,96	5	2,228	2.38
Commercial real estate (3)		72,927		3,811	6.99	64,29	5	1,601	3.33
Commercial lease financing		13,709		462	4.50	14,07	1	334	3.17
Total commercial		590,034		24,406	5.53	566,00	0	12,242	2.89
Total loans and leases	1	,044,756		42,071	5.38	1,009,21	1	25,917	3.43
Other earning assets		98,857		6,902	9.33	108,96	8	2,813	3.45
Total earning assets	2	,727,935		95,055	4.66	2,718,77	0	47,805	2.35
Cash and due from banks		26,544				28,11	6		
Other assets, less allowance for loan and lease losses		378,936				409,77	1		
Total assets	\$ 3	,133,415				\$ 3,156,65	7		
Interest-bearing liabilities									
U.S. interest-bearing deposits									
Demand and money market deposits	\$	956,165	\$	10,659	1.49 %	\$ 989,36	4 \$	1,101	0.15 %
Time and savings deposits		233,079		4,520	2.59	161,70	7	275	0.23
Total U.S. interest-bearing deposits	1	,189,244		15,179	1.71	1,151,07	1	1,376	0.16
Non-U.S. interest-bearing deposits		95,187		2,260	3.17	80,23	5	343	0.57
Total interest-bearing deposits	1	,284,431		17,439	1.82	1,231,30	6	1,719	0.19
Federal funds purchased and securities loaned or sold under agreements				<u>, </u>					
to repurchase		291,349		14,700	6.75	214,40	4	1,871	1.17
Short-term borrowings and other interest-bearing liabilities		153,653		7,464	6.49	132,87	3	834	0.84
Trading account liabilities		45,675		1,486	4.35	54,85	2	1,117	2.72
Long-term debt		246,357		10,559	5.72	247,35	7	4,168	2.25
Total interest-bearing liabilities	2	,021,465		51,648	3.41	1,880,79	2	9,709	0.69
Noninterest-bearing sources									
Noninterest-bearing deposits		597,224				775,27	8		
Other liabilities (4)		233,147				231,07	3		
Shareholders' equity		281,579				269,51	4		
Total liabilities and shareholders' equity	\$ 3	,133,415				\$ 3,156,65			
Net interest spread		, ,			1.25 %	, ,			1.66 %
Impact of noninterest-bearing sources					0.87				0.21
Net interest income/yield on earning assets (5)			\$	43,407	2.12 %		\$	38,096	1.87 %
(1) Includes the impact of interest rate risk management contracts. For more information	coo Into	root Doto Di		,		ok on nodo 46		,	70

⁽¹⁾ Includes the impact of interest rate risk management contracts. For more information, see Interest Rate Risk Management for the Banking Book on page 46.
(2) Nonperforming loans are included in the respective average loan balances. Income on these nonperforming loans is generally recognized on a cost recovery basis.
(3) Includes U.S. commercial real estate loans of \$67.2 billion and \$60.0 billion and non-U.S. commercial real estate loans of \$5.8 billion for the nine months ended September 30, 2023 and 2022.

²⁰²³ and 2022.

(4) Includes \$39.5 billion and \$29.7 billion of structured notes and liabilities for the nine months ended September 30, 2023 and 2022.

(5) Net interest income includes FTE adjustments of \$422 million and \$315 million for the nine months ended September 30, 2023 and 2022.

Business Segment Operations

Segment Description and Basis of Presentation

We report our results of operations through four business segments: Consumer Banking, GWIM, Global Banking and Global Markets, with the remaining operations recorded in All Other. We manage our segments and report their results on an FTE basis. For more information, see Business Segment Operations in the MD&A of the Corporation's 2022 Annual Report on Form 10-K.

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. 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, including the definition of a reporting unit, see *Note 7 – Goodwill and Intangible* Assets to the Consolidated Financial Statements.

For more information on our presentation of financial information on an FTE basis, see Supplemental Financial Data on page 7, and for reconciliations to consolidated total revenue, net income and period-end total assets, see *Note 17 – Business Segment Information* to the Consolidated Financial Statements.

Key Performance Indicators

We present certain key financial and nonfinancial performance indicators that management uses when evaluating segment results. We believe they are useful to investors because they provide additional information about our segments' operational performance, customer trends and business growth.

Consumer Banking

		Dep	posit	s		Consum	er L	ending		Total Cons	ume	r Banking	
					Thre	e Months En	ıded	September 3	0				
(Dollars in millions)		2023		2022		2023		2022		2023		2022	% Change
Net interest income	\$	5,571	\$	5,006	\$	2,820	\$	2,778	\$	8,391	\$	7,784	8 %
Noninterest income:													
Card income		(11)		(10)		1,336		1,341		1,325		1,331	_
Service charges		605		597		_		_		605		597	1
All other income		116		141		35		51		151		192	(21)
Total noninterest income		710		728		1,371		1,392		2,081		2,120	(2)
Total revenue, net of interest expense		6,281		5,734		4,191		4,170		10,472		9,904	6
Provision for credit losses		128		173		1,269		565		1,397		738	89
Noninterest expense		3,240		3,141		2,016		1,956		5,256		5,097	3
Income before income taxes		2,913		2,420		906		1,649		3,819		4,069	(6)
Income tax expense		729		593		226		404		955		997	(4)
Net income	\$	2,184	\$	1,827	\$	680	\$	1,245	\$	2,864	\$	3,072	(7)
Effective tax rate (1)										25.0 9	%	24.5 %	
Net interest yield		2.26 %	6	1.87 %		3.65 %	%	3.76 %	,	3.26	%	2.79 %	
Return on average allocated capital		63		56		10		18		27		30	
Efficiency ratio		51.60		54.78		48.06		46.92		50.18		51.47	
Balance Sheet													
					Thre		nded	September 3	0				
Average		2023		2022		2023		2022		2023		2022	% Change
Total loans and leases	\$	4,139	\$	4,153	\$	306,622	\$	291,078	\$	310,761	\$	295,231	5 %
Total earning assets (2)		975,968		1,064,585		306,982		293,366		1,019,980		1,106,513	(8)
Total assets (2)	1	,009,390		1,096,911		312,731		300,374		1,059,152		1,145,846	(8)
Total deposits		974,674		1,063,075		5,377		6,018		980,051		1,069,093	(8)
Allocated capital		13,700		13,000		28,300		27,000		42,000		40,000	5

⁽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.

n/m = not meaningful

		Dep	osit	s		Consume				Total Consu	ımer	Banking	
					Nin	e Months End	ded S	September 30)				
(Dollars in millions)		2023		2022		2023		2022		2023		2022	% Change
Net interest income	\$	17,120	\$	13,535	\$	8,301	\$	8,016	\$	25,421	\$	21,551	18 %
Noninterest income:													
Card income		(31)		(27)		3,971		3,863		3,940		3,836	3
Service charges		1,727		2,118		2		2		1,729		2,120	(18)
All other income		490		264		122		82		612		346	77
Total noninterest income		2,186		2,355		4,095		3,947		6,281		6,302	_
Total revenue, net of interest expense		19,306		15,890		12,396		11,963		31,702		27,853	14
Provision for credit losses		414		388		3,339		648		3,753		1,036	n/m
Noninterest expense		10,082		9,204		6,100		5,773		16,182		14,977	8
Income before income taxes		8,810		6,298		2,957		5,542		11,767		11,840	(1)
Income tax expense		2,203		1,543		739		1,358		2,942		2,901	1
Net income	\$	6,607	\$	4,755	\$	2,218	\$	4,184	\$	8,825	\$	8,939	(1)
Effective tax rate (1)										25.0 %	ó	24.5 %	
Net interest yield		2.29 %	ó	1.70 %		3.66 %	ó	3.73 %		3.26		2.61	
Return on average allocated capital		64		49		11		21		28		30	
Efficiency ratio		52.23		57.92		49.21		48.26		51.05		53.77	
Balance Sheet													
					Nin	e Months End	ded S	September 30)				
Average		2023		2022		2023		2022		2023		2022	% Change
Total loans and leases	\$	4,113	\$	4,171	\$	302,978	\$	285,501	\$	307,091	\$	289,672	6 %
Total earning assets (2)	1	L,000,143		1,062,668		303,266		287,422		1,043,476		L,104,653	(6)
Total assets (2)	1	L,033,618		1,095,830		309,435		294,193		1,083,120		L,144,587	(5)
Total deposits		998,947	:	1,061,876		5,094		5,909		1,004,041	1	L,067,785	(6)
Allocated capital		13,700		13,000		28,300		27,000		42,000		40,000	5
	Se	ptember 30	De	ecember 31	Se	eptember 30	De	ecember 31	Se	eptember 30	De	ecember 31	
Period end		2023	_	2022		2023	_	2022		2023		2022	% Change
Total loans and leases	\$	4,165	\$	4,148	\$	309,051	\$	300,613	\$,	\$	304,761	3 %
Total earning assets (2)		978,133		1,043,049		309,527		300,787		1,023,162		L,085,079	(6)
Total assets (2)	1	L,010,771		1,077,203		315,765		308,007		1,062,038		L,126,453	(6)
Total deposits		976,007	- :	1,043,194		6,295		5,605		982,302	1	L,048,799	(6)

See page 11 for footnotes.

Consumer Banking, comprised of Deposits and Consumer Lending, offers a diversified range of credit, banking and investment products and services to consumers and small businesses. For more information about Consumer Banking, see Business Segment Operations in the MD&A of the Corporation's 2022 Annual Report on Form 10-K.

Consumer Banking Results

Three-Month Comparison

Net income for *Consumer Banking* decreased \$208 million to \$2.9 billion due to an increase in provision for credit losses and higher noninterest expense, partially offset by higher revenue. Net interest income increased \$607 million to \$8.4 billion primarily driven by higher interest rates and loan balances. Noninterest income decreased \$39 million to \$2.1 billion, relatively unchanged from the same period a year ago.

The provision for credit losses increased \$659 million to \$1.4 billion primarily driven by credit card loan growth and asset quality.

Noninterest expense increased \$159 million to \$5.3 billion primarily driven by higher FDIC expense.

The return on average allocated capital was 27 percent, down from 30 percent, due to an increase in allocated capital

and lower net income. For more information on capital allocated to the business segments, see Business Segment Operations on page 11.

Nine-Month Comparison

Net income for *Consumer Banking* decreased \$114 million to \$8.8 billion due to an increase in provision for credit losses and higher noninterest expense, partially offset by higher revenue. Net interest income increased \$3.9 billion to \$25.4 billion primarily due to the same factors as described in the three-month discussion. Noninterest income decreased \$21 million to \$6.3 billion, relatively unchanged from the same period a year ago.

The provision for credit losses increased \$2.7 billion to \$3.8 billion primarily driven by credit card loan growth and asset quality, whereas the prior-year period benefited from reduced COVID-19 pandemic uncertainties. Noninterest expense increased \$1.2 billion to \$16.2 billion primarily due to continued investments in the business, including people and technology, higher litigation expense, including consumer regulatory matters, and higher FDIC expense.

The return on average allocated capital was 28 percent, down from 30 percent, primarily due an increase in allocated capital.

Deposits

Three-Month Comparison

Net income for Deposits increased \$357 million to \$2.2 billion primarily due to higher revenue, partially offset by higher noninterest expense. Net interest income increased \$565 million to \$5.6 billion primarily due to higher interest rates. Noninterest income decreased \$18 million to \$710 million, relatively unchanged from the same period a year ago.

Noninterest expense increased \$99 million to \$3.2 billion primarily driven by higher FDIC expense.

Average deposits decreased \$88.4 billion to \$974.7 billion primarily due to net outflows of \$68.4 billion in money market savings and \$36.2 billion in checking, partially offset by growth in time deposits of \$25.8 billion. The change in average deposits was primarily due to higher interest rates and client activity.

Nine-Month Comparison

Net income for Deposits increased \$1.9 billion to \$6.6 billion primarily due to higher revenue, partially offset by higher

noninterest expense. Net interest income increased \$3.6 billion to \$17.1 billion primarily due to the same factor as described in the three-month discussion. Noninterest income decreased \$169 million to \$2.2 billion primarily due to the impact of nonsufficient funds and overdraft policy changes. Noninterest expense increased \$878 million to \$10.1 billion primarily driven by continued investments in the business, including people and technology, higher litigation expense, including consumer regulatory matters, and higher FDIC expense.

Average deposits decreased \$62.9 billion to \$998.9 billion primarily due to net outflows of \$42.9 billion in money market savings and \$25.9 billion in checking, partially offset by growth in time deposits of \$13.7 billion. The change in average deposits was primarily driven by the same factors as described in the three-month discussion.

The table below provides key performance indicators for Deposits. Management uses these metrics, and we believe they are useful to investors because they provide additional information to evaluate our deposit profitability and digital/mobile trends.

Key Statistics - Deposits

	Three Months Ended	d September 30	Nine Months End	ded Se	ptember 30
	2023	2022	2023		2022
Total deposit spreads (excludes noninterest costs) (1)	2.76%	1.88%	2.66%		1.74%
Period end					
Consumer investment assets (in millions) (2)			\$ 387,467	\$	302,413
Active digital banking users (in thousands) (3)			45,797		43,496
Active mobile banking users (in thousands) (4)			37,487		34,922
Financial centers			3,862		3,932
ATMs			15,253		15,572

⁽¹⁾ Includes deposits held in Consumer Lending.

Consumer investment assets increased \$85.1 billion to \$387.5 billion driven by client flows and market performance. Active mobile banking users increased approximately three million, reflecting continuing changes in our clients' banking preferences. We had a net decrease of 70 financial centers and 319 ATMs as we continue to optimize our consumer banking network.

Consumer Lending

Three-Month Comparison

Net income for Consumer Lending decreased \$565 million to \$680 million primarily due to an increase in provision for credit losses. Net interest income increased \$42 million to \$2.8 billion, relatively unchanged from the same period a year ago. Noninterest income decreased \$21 million to \$1.4 billion, relatively unchanged from the same period a year ago.

The provision for credit losses increased \$704 million to \$1.3 billion primarily driven by credit card loan growth and asset quality. Noninterest expense increased \$60 million to \$2.0 billion, relatively unchanged from the same period a year ago.

Average loans increased \$15.5 billion to \$306.6 billion primarily driven by an increase in credit card loans.

Nine-Month Comparison

Net income for Consumer Lending decreased \$2.0 billion to \$2.2 billion primarily due to an increase in provision for credit losses. Net interest income increased \$285 million to \$8.3 billion primarily due to higher loan balances. Noninterest income increased \$148 million to \$4.1 billion primarily due to higher card income.

The provision for credit losses increased \$2.7 billion to \$3.3 billion primarily driven by credit card loan growth and asset quality, whereas the prior-year period benefited from reduced COVID-19 pandemic uncertainties. Noninterest expense increased \$327 million to \$6.1 billion primarily driven by continued investments in the business.

Average loans increased \$17.5 billion to \$303.0 billion primarily driven by the same factor as described in the three-month discussion.

The table below provides key performance indicators for Consumer Lending. Management uses these metrics, and we believe they are useful to investors because they provide additional information about loan growth and profitability.

^[2] Includes client brokerage assets, deposit sweep balances, Bank of America, N.A. brokered CDs and AUM in Consumer Banking.

⁽³⁾ Represents mobile and/or online active users over the past 90 days.

⁽⁴⁾ Represents mobile active users over the past 90 days.

Key Statistics - Consumer Lending

	Thi	ree Months En	ded S	eptember 30	N	line Months End	led Se	ptember 30
(Dollars in millions)		2023		2022		2023		2022
Total credit card ⁽¹⁾								
Gross interest yield (2)		12.03 %	•	10.71 %		11.85 %		10.14 %
Risk-adjusted margin (3)		7.70		10.07		8.06		10.13
New accounts (in thousands)		1,062		1,256		3,386		3,301
Purchase volumes	\$	91,711	\$	91,064	\$	270,358	\$	263,788
Debit card purchase volumes	\$	133,553	\$	127,135	\$	390,891	\$	373,426

⁽¹⁾ Includes GWIM's credit card portfolio.

During the three and nine months ended September 30, 2023, the total risk-adjusted margin decreased 237 bps and 207 bps primarily driven by higher net credit losses, lower net interest margin and lower fee income. During the three and nine

months ended September 30, 2023 total credit card purchase volumes increased \$647 million and \$6.6 billion, and debit card purchase volumes increased \$6.4 billion and \$17.5 billion, reflecting higher levels of consumer spending.

Key Statistics - Loan Production (1)

	Thre	e Months End	led Se	ptember 30	Ni	ne Months End	ed Se _l	otember 30
(Dollars in millions)		2023		2022		2023		2022
Consumer Banking:								
First mortgage	\$	2,547	\$	4,028	\$	7,392	\$	18,695
Home equity		2,035		1,999		6,389		5,875
Total (2):								
First mortgage	\$	5,596	\$	8,724	\$	15,473	\$	39,548
Home equity		2,421		2,420		7,559		6,995

⁽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.

First mortgage loan originations for *Consumer Banking* and the total Corporation decreased \$1.5 billion and \$3.1 billion during the three months ended September 30, 2023 primarily driven by higher interest rates, resulting in lower customer demand. During the nine months ended September 30, 2023, first mortgage loan originations for *Consumer Banking* and the total Corporation decreased \$11.3 billion and \$24.1 billion primarily driven by lower demand.

Home equity production in *Consumer Banking* and the total Corporation remained relatively unchanged during the three months ended September 30, 2023 compared to the same period a year ago. During the nine months ended September 30, 2023, *Consumer Banking* and the total Corporation increased \$514 million and \$564 million primarily driven by higher demand.

⁽²⁾ Calculated as the effective annual percentage rate divided by average loans.

⁽³⁾ Calculated as the difference between total revenue, net of interest expense, and net credit losses divided by average loans.

In addition to loan production in Consumer Banking, there is also first mortgage and home equity loan production in GWIM.

		ee Months En	ucu o		0/ 01		ne Months End	acu oc	·	0/ 01
(Dollars in millions)		2023		2022	% Change		2023		2022	% Change
Net interest income	\$	1,755	\$	1,981	(11)%	\$	5,436	\$	5,451	— %
Noninterest income:										
Investment and brokerage services		3,396		3,255	4		9,885		10,395	(5)
All other income		170		193	(12)		557		492	13
Total noninterest income		3,566		3,448	3 _		10,442		10,887	(4)
Total revenue, net of interest expense		5,321		5,429	(2)		15,878		16,338	(3)
Provision for credit losses		(6)		37	(116)		32		29	10
Noninterest expense		3,950		3,816	4		11,942		11,706	2
Income before income taxes		1,377		1,576	(13)		3,904		4,603	(15)
Income tax expense		344		386	(11)		976		1,128	(13)
Net income	\$	1,033	\$	1,190	(13)	\$	2,928	\$	3,475	(16)
Effective tax rate		25.0 %		24.5 %			25.0 %		24.5 %	
Net interest yield		2.16		2.12			2.19		1.84	
Return on average allocated capital		22		27			21		27	
Efficiency ratio		74.28		70.28			75.21		71.65	
Balance Sheet										
	Thre	ee Months En	ded Se			Ni	ne Months End	ded Se		
Average		2023		2022	% Change		2023		2022	% Change
Total loans and leases	\$	218,569	\$	223,734	(2)%	\$	219,530	\$	218,030	1 %
Total earning assets		322,032		370,733	(13)		331,738		395,023	(16)
Total assets		335,124		383,468	(13)		344,709		407,819	(15)
Total deposits		291,770		339,487	(14)		300,308		362,611	(17)
Allocated capital		18,500		17,500	6		18,500		17,500	6
Period end						Se	ptember 30 2023	D	ecember 31 2022	% Change
Total loans and leases						\$	218,913	\$	223,910	// Criange (2)%
Total earning assets						Ф	320,196	φ	355,461	(10)
Total assets							320,196		368,893	(10)
Total deposits							333,779 290,732		308,893	(10)

GWIM consists of two primary businesses: Merrill Wealth Management and Bank of America Private Bank. For more information about GWIM, see Business Segment Operations in the MD&A of the Corporation's 2022 Annual Report on Form 10-K.

Three-Month Comparison

Net income for *GWIM* decreased \$157 million to \$1.0 billion primarily due to higher noninterest expense and lower revenue. The operating margin was 26 percent compared to 29 percent a year ago.

Net interest income decreased \$226 million to \$1.8 billion primarily driven by lower deposit balances and a mix shift to higher yielding deposit products.

Noninterest income, which primarily includes investment and brokerage services income, increased \$118 million to \$3.6 billion. The increase was primarily driven by higher asset management fees due to higher average market levels and the impact of positive AUM flows, partially offset by lower brokerage fees.

Noninterest expense increased \$134 million to \$4.0 billion primarily due to continued investments in the business, including strategic hiring, as well as higher FDIC expense.

The return on average allocated capital was 22 percent, down from 27 percent, due to lower net income and, to a lesser extent, a small increase in allocated capital.

Average loans decreased \$5.2 billion to \$218.6 billion primarily driven by securities-based lending and custom lending, partially offset by residential mortgage. Average deposits decreased \$47.7 billion to \$291.8 billion primarily driven by

clients moving deposits to higher yielding investment alternatives, including offerings on our investment and brokerage platforms.

Merrill Wealth Management revenue of \$4.4 billion decreased three percent primarily driven by lower net interest income from lower deposit balances and a mix shift to higher yielding deposit products, as well as lower brokerage fees, partially offset by higher asset management fees from higher market levels and the impact of positive AUM flows.

Bank of America Private Bank revenue of \$923 million increased two percent primarily driven by higher asset management fees from higher market levels and the impact of positive AUM flows.

Nine-Month Comparison

Net income for *GWIM* decreased \$547 million to \$2.9 billion primarily due to lower revenue and higher noninterest expense. The operating margin was 25 percent compared to 28 percent a year ago.

Net interest income was \$5.4 billion, relatively unchanged from the same period a year ago.

Noninterest income, which primarily includes investment and brokerage services income, decreased \$445 million to \$10.4 billion primarily driven by lower asset management fees and brokerage fees due to lower average equity and fixed income market levels and transactional volumes, partially offset by the impact of positive AUM flows.

Noninterest expense increased \$236 million to \$11.9 billion due to continued investments in the business, including

strategic hiring, as well as higher FDIC expense, partially offset by lower revenue-related incentives.

The return on average allocated capital was 21 percent, down from 27 percent, due to lower net income and, to a lesser extent, a small increase in allocated capital.

Average loans increased \$1.5 billion to \$219.5 billion primarily driven by residential mortgage and custom lending, mostly offset by securities-based lending. Average deposits decreased \$62.3 billion to \$300.3 billion due to the same factors as described in the three-month discussion.

Merrill Wealth Management revenue of \$13.1 billion decreased four percent primarily driven by lower asset management fees and brokerage fees due to lower average equity and fixed income market levels and transactional volumes, partially offset by the impact of positive AUM flows.

Bank of America Private Bank revenue of \$2.7 billion increased two percent primarily driven by the same factors as described in the three-month discussion, as well as higher net interest income due to higher interest rates.

Key Indicators and Metrics

	Thi	ee Months End	led S	eptember 30	Ni	ne Months End	ed S	eptember 30
(Dollars in millions)		2023		2022		2023		2022
Revenue by Business								
Merrill Wealth Management	\$	4,398	\$	4,524	\$	13,135	\$	13,649
Bank of America Private Bank		923		905		2,743		2,689
Total revenue, net of interest expense	\$	5,321	\$	5,429	\$	15,878	\$	16,338
Client Balances by Business, at period end								
Merrill Wealth Management					\$	2,978,229	\$	2,710,985
Bank of America Private Bank						572,624		537,771
Total client balances					\$	3,550,853	\$	3,248,756
Client Balances by Type, at period end								
Assets under management					\$	1,496,601	\$	1,329,557
Brokerage and other assets						1,578,123		1,413,946
Deposits						290,732		324,859
Loans and leases (1)						221,684		228,129
Less: Managed deposits in assets under management						(36,287)		(47,735)
Total client balances					\$	3,550,853	\$	3,248,756
Assets Under Management Rollforward								
Assets under management, beginning of period	\$	1,531,042	\$	1,411,344	\$	1,401,474	\$	1,638,782
Net client flows		14,226		4,110		43,784		20,680
Market valuation/other		(48,667)		(85,897)		51,343		(329,905)
Total assets under management, end of period	\$	1,496,601	\$	1,329,557	\$	1,496,601	\$	1,329,557
Total wealth advisors, at period end (2)						19,130		18,841

⁽¹⁾ Includes margin receivables which are classified in customer and other receivables on the Consolidated Balance Sheet.

Client Balances

Client balances increased \$302.1 billion, or nine percent, to \$3.6 trillion at September 30, 2023 compared to September 30, 2022. The increase in client balances was primarily due to the impact of higher end-of-period market valuations and positive client flows.

⁽²⁾ Includes advisors across all wealth management businesses in GWIM and Consumer Banking.

Global Banking

	Thre	e Months En	ded S	eptember 30		Nir	ne Months End	ded Se	ptember 30	
(Dollars in millions)		2023		2022	% Change		2023		2022	% Change
Net interest income	\$	3,613	\$	3,326	9 %	\$	11,210	\$	8,304	35 %
Noninterest income:										
Service charges		754		771	(2)		2,203		2,590	(15)
Investment banking fees		743		726	2		2,129		2,298	(7)
All other income		1,093		768	42		3,326		2,599	28
Total noninterest income		2,590		2,265	14		7,658		7,487	2
Total revenue, net of interest expense		6,203		5,591	11		18,868		15,791	19
Provision for credit losses		(119)		170	n/m		(347)		492	n/m
Noninterest expense		2,804		2,651	6		8,563		8,133	5
Income before income taxes		3,518		2,770	27		10,652		7,166	49
Income tax expense		950		734	29		2,876		1,899	51
Net income	\$	2,568	\$	2,036	26	\$	7,776	\$	5,267	48
Effective tax rate		27.0 %		26.5 %			27.0 %		26.5 %	
Net interest yield		2.68		2.53			2.84		2.05	
Return on average allocated capital		21		18			21		16	
Efficiency ratio		45.22		47.41			45.38		51.50	

Balance Sheet

	The	ree Months En	ded S	eptember 30		Ni	ne Months End	ded Se	eptember 30	
Average		2023		2022	% Change		2023		2022	% Change
Total loans and leases	\$	376,214	\$	384,305	(2)%	\$	380,076	\$	373,547	2 %
Total earning assets		534,153		521,555	2		528,205		541,670	(2)
Total assets		601,378		585,683	3		595,329		605,884	(2)
Total deposits		504,432		495,154	2		498,224		514,612	(3)
Allocated capital		49,250		44,500	11		49,250		44,500	11

eriod end	Se	eptember 30 2023	D	ecember 31 2022	% Change
Total loans and leases	\$	373,351	\$	379,107	(2)%
otal earning assets		521,423		522,539	_
otal assets		588,578		588,466	_
otal deposits		494,938		498,661	(1)

n/m = not meaningful

Global Banking, which includes Global Corporate Banking, Global Commercial Banking, Business Banking and Global Investment Banking, provides a wide range of lending-related products and services, integrated working capital management and treasury solutions, and underwriting and advisory services through our network of offices and client relationship teams. For more information about *Global Banking*, see Business Segment Operations in the MD&A of the Corporation's 2022 Annual Report on Form 10-K.

Three-Month Comparison

Net income for *Global Banking* increased \$532 million to \$2.6 billion driven by higher revenue and lower provision for credit losses, partially offset by higher noninterest expense.

Net interest income increased \$287 million to \$3.6 billion predominantly due to the benefit of higher interest rates.

Noninterest income increased \$325 million to \$2.6 billion driven by higher revenue from ESG investment activities and negative valuation adjustments on leveraged loans in the prioryear period.

The provision for credit losses improved \$289 million to a benefit of \$119 million primarily driven by a reserve release due to net loan paydowns and an improved macroeconomic outlook in the current-year period compared to a reserve build in the prior-year period due to a dampened macroeconomic outlook.

Noninterest expense increased \$153 million to \$2.8 billion, primarily due to continued investments in the business, including people, and higher FDIC expense.

The return on average allocated capital was 21 percent, up from 18 percent, due to higher net income, partially offset by higher allocated capital. For more information on capital allocated to the business segments, see Business Segment Operations on page 11.

Nine-Month Comparison

Net income for *Global Banking* increased \$2.5 billion to \$7.8 billion driven by higher revenue and lower provision for credit losses, partially offset by higher noninterest expense.

Net interest income increased \$2.9 billion to \$11.2 billion due to the same factor as described in the three-month discussion.

Noninterest income increased \$171 million to \$7.7 billion driven by higher revenue from ESG investment activities and negative valuation adjustments on leveraged loans in the prioryear period, partially offset by lower treasury service charges and lower investment banking fees.

The provision for credit losses improved \$839 million to a benefit of \$347 million primarily due to the same factors as described in the three-month discussion. In addition, the prioryear period was impacted by a reserve build related to Russian exposure.

Noninterest expense increased \$430 million to \$8.6 billion, primarily due to continued investments in the business,

including technology and strategic hiring in 2022, and higher FDIC expense, partially offset by expenses recognized for certain regulatory matters in the prior-year period.

The return on average allocated capital was 21 percent, up from 16 percent, due to higher net income, partially offset by higher allocated capital.

Global Corporate, Global Commercial and Business Banking

The following table and discussion present a summary of the results, which exclude certain investment banking and Paycheck Protection Program (PPP) activities in *Global Banking*.

Global Corporate, Global Commercial and Business Banking

	(Global Corpo	rate	Banking	GI	obal Comm	erci	al Banking		Business	Bar	nking		То	tal	
						TI	ree	Months End	led S	September :	30					
(Dollars in millions)	_	2023		2022		2023		2022		2023		2022		2023		2022
Revenue	_															
Business Lending	\$	1,300	\$	902	\$	1,262	\$	1,111	\$	61	\$	66	\$	2,623	\$	2,079
Global Transaction Services		1,392		1,369		998		1,112		379		322		2,769		2,803
Total revenue, net of interest expense	\$	2,692	\$	2,271	\$	2,260	\$	2,223	\$	440	\$	388	\$	5,392	\$	4,882
Balance Sheet																
Average																
Total loans and leases	\$	169,384	\$	177,166	\$	194,604	\$	193,828	\$	12,071	\$	12,697	\$	376,059	\$	383,691
Total deposits		272,007		241,289		182,040		198,479		50,381		55,386		504,428		495,154
		Global Corpo	rate	Banking	GI	obal Comm	erci	al Banking		Business	s Bar	nking		То	tal	
	_	•						Months End	ed S				_			
(Dollars in millions)		2023		2022		2023		2022		2023		2022		2023		2022
Revenue																
Business Lending	\$	3,693	\$	2,908	\$	3,765	\$	3,128	\$	191	\$	186	\$	7,649	\$	6,222
Global Transaction Services		4,424		3,456		3,172		2,981		1,161		835		8,757		7,272
Total revenue, net of interest expense	\$	8,117	\$	6,364	\$	6,937	\$	6,109	\$	1,352	\$	1,021	\$	16,406	\$	13,494
Balance Sheet																
Average																
Total loans and leases	\$	172,964	\$	173,740	\$	194,496	\$	185,981	\$	12,397	\$	12,799	\$	379,857	\$	372,520
Total deposits		266,425		247,924		180,850		209,583		50,951		57,106		498,226		514,613
Period end																
Total loans and leases	\$	166,974	\$	172,806	\$	194,318	\$	191,739	\$	11,932	\$	12,663	\$	373,224	\$	377,208
Total deposits		266,481		242,837		179,914		187,899		48,537		53,572		494,932		484,308

Business Lending revenue increased \$544 million for the three months ended September 30, 2023 compared to the same period in 2022 primarily driven by higher interest rates and higher revenue from ESG investment activities. Business Lending revenue increased \$1.4 billion for the nine months ended September 30, 2023 compared to the same period in 2022 primarily driven by higher interest rates, higher revenue from ESG investment activities and the impact of higher average loan balances.

Global Transaction Services revenue decreased \$34 million to \$2.8 billion for the three months ended September 30, 2023, relatively unchanged from the same period a year ago. Global Transaction Services revenue increased \$1.5 billion for the nine months ended September 30, 2023 primarily driven by higher interest rates, partially offset by lower treasury service charges and the impact of lower average deposit balances.

Average loans and leases decreased two percent for the three months ended September 30, 2023 due to paydowns and increased two percent for the nine months ended September 30, 2023 due to client demand. Average deposits increased two percent for the three months ended September 30, 2023 due to international growth and decreased three percent for the nine months ended September 30, 2023 due to declines in domestic 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	rpor	ation	Global I	Bank	ing	Total Corporation			
		Thr	ee N	onths End	led S	September	30		Nir	ne M	onths End	ed S	eptember	30	
(Dollars in millions)	2	023		2022		2023		2022	2023		2022		2023	:	2022
Products															
Advisory	\$	396	\$	397	\$	448	\$	432	\$ 1,042	\$	1,197	\$	1,186	\$	1,297
Debt issuance		255		273		570		616	808		915		1,814		2,109
Equity issuance		92		56		232		156	279		186		687		520
Gross investment banking fees		743		726		1,250		1,204	2,129		2,298		3,687		3,926
Self-led deals		(19)		(17)		(62)		(37)	(39)		(74)		(124)		(174)
Total investment banking fees	\$	724	\$	709	\$	1,188	\$	1,167	\$ 2,090	\$	2,224	\$	3,563	\$	3,752

Total Corporation investment banking fees, which exclude self-led deals and are primarily included within *Global Banking* and *Global Markets*, were \$1.2 billion and \$3.6 billion for the three and nine months ended September 30, 2023. The three-month period increased two percent compared to the same period in

2022 primarily due to higher equity issuance and advisory fees, partially offset by lower debt issuance fees. The nine-month period decreased five percent compared to the same period in 2022 primarily due to lower debt issuance and advisory fees, partially offset by higher equity issuance fees.

Global Markets

	Thr	ee Months End	led S	eptember 30		Ni	ne Months End	led S	eptember 30	_	
(Dollars in millions)		2023		2022	% Change		2023		2022	% Change	
Net interest income	\$	674	\$	743	(9)%	\$	1,080	\$	2,717	(60)%	
Noninterest income:											
Investment and brokerage services		475		457	4		1,507		1,520	(1)	
Investment banking fees		463		430	8		1,435		1,473	(3)	
Market making and similar activities		3,195		2,874	11		11,002		8,721	26	
All other income		135		(21)	n/m		415		(154)	n/m	
Total noninterest income		4,268		3,740	14		14,359		11,560	24	
Total revenue, net of interest expense		4,942		4,483	10		15,439		14,277	8	
Provision for credit losses		(14)		11	n/m		(71)		24	n/m	
Noninterest expense		3,235		3,023	7		9,935		9,249	7	
Income before income taxes		1,721		1,449	19		5,575		5,004	11	
Income tax expense		473		384	23		1,533		1,326	16	
Net income	\$	1,248	\$	1,065	17	\$	4,042	\$	3,678	10	
Effective tax rate		27.5 %		26.5 %			27.5 %		26.5 %		
Return on average allocated capital		11		10			12		12		
Efficiency ratio		65.47		67.42			64.35		64.78		
Balance Sheet											
			Ended September 30			Nine Months End					
		2023		2022	% Change		2023		2022	% Change	
Average											
Trading-related assets:											
Trading account securities	\$	307,990	\$	308,514	— %	\$	321,607	\$	301,690	7 %	
Reverse repurchases		135,401		112,828	20		133,912		127,527	5	
Securities borrowed		119,936		114,032	5		118,912		115,898	3	
Derivative assets		46,417		57,017	(19)		44,477		53,098	(16)	
Delivative assets		40,411					040.000		598,213	3	
Total trading-related assets		609,744		592,391	3		618,908				
				592,391 120,435	3 9		128,317		114,505	12	
Total trading-related assets		609,744		· · · · · · · · · · · · · · · · · · ·	_		<u> </u>		114,505 600,477	12 8	
Total trading-related assets Total loans and leases		609,744 131,298		120,435	9		128,317		,		
Total trading-related assets Total loans and leases Total earning assets		609,744 131,298 655,971		120,435 591,883	9 11		128,317 647,386		600,477	8	
Total trading-related assets Total loans and leases Total earning assets Total assets		609,744 131,298 655,971 863,653		120,435 591,883 847,899	9 11 2		128,317 647,386 870,366		600,477 857,747	8 1	
Total trading-related assets Total loans and leases Total earning assets Total assets Total deposits		609,744 131,298 655,971 863,653 31,890		120,435 591,883 847,899 38,820	9 11 2 (18)	Se	128,317 647,386 870,366 33,725	D	600,477 857,747 41,448 42,500 December 31	8 1 (19) 7	
Total trading-related assets Total loans and leases Total earning assets Total assets Total deposits Allocated capital Period end		609,744 131,298 655,971 863,653 31,890		120,435 591,883 847,899 38,820	9 11 2 (18)	See	128,317 647,386 870,366 33,725 45,500 eptember 30 2023		600,477 857,747 41,448 42,500 December 31 2022	8 1 (19) 7	
Total trading-related assets Total loans and leases Total earning assets Total assets Total deposits Allocated capital Period end Total trading-related assets		609,744 131,298 655,971 863,653 31,890		120,435 591,883 847,899 38,820	9 11 2 (18)		128,317 647,386 870,366 33,725 45,500 eptember 30 2023 613,009	\$	600,477 857,747 41,448 42,500 December 31 2022 564,769	8 1 (19) 7 % Change 9 %	
Total trading-related assets Total loans and leases Total earning assets Total assets Total deposits Allocated capital Period end Total trading-related assets Total loans and leases		609,744 131,298 655,971 863,653 31,890		120,435 591,883 847,899 38,820	9 11 2 (18)		128,317 647,386 870,366 33,725 45,500 eptember 30 2023 613,009 134,386		600,477 857,747 41,448 42,500 December 31 2022 564,769 127,735	8 1 (19) 7 % Change 9 % 5	
Total trading-related assets Total loans and leases Total earning assets Total assets Total deposits Allocated capital Period end Total trading-related assets		609,744 131,298 655,971 863,653 31,890		120,435 591,883 847,899 38,820	9 11 2 (18)		128,317 647,386 870,366 33,725 45,500 eptember 30 2023 613,009		600,477 857,747 41,448 42,500 December 31 2022 564,769	8 1 (19) 7 % Change 9 %	

n/m = not meaningful

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 2022 Annual Report on Form 10-K.

The following explanations for current period-over-period changes for *Global Markets*, including those disclosed under Sales and Trading Revenue, are the same for amounts including and excluding net DVA. Amounts excluding net DVA are a non-GAAP financial measure. For more information on net DVA, see Supplemental Financial Data on page 7.

Three-Month Comparison

Net income for *Global Markets* increased \$183 million to \$1.2 billion. Net DVA losses were \$16 million in the current-year period compared to losses of \$14 million in the prior-year period. Excluding net DVA, net income increased \$184 million to \$1.3 billion. These increases were primarily driven by higher revenue, partially offset by higher noninterest expense.

Revenue increased \$459 million to \$4.9 billion primarily due to higher sales and trading revenue in the current-year period and negative valuation adjustments on leveraged loans in the prior-year period. Sales and trading revenue increased \$313 million, and excluding net DVA, sales and trading revenue increased \$315 million. These increases were driven by a strong performance in FICC and Equities.

Noninterest expense increased \$212 million to \$3.2 billion primarily driven by continued investments in the business, including people and technology.

Average total assets increased \$15.8 billion to \$863.7 billion driven by higher levels of inventory, increased secured financing activity and loan growth in FICC, partially offset by lower levels of inventory in Equities.

The return on average allocated capital was 11 percent, up from 10 percent, reflecting higher net income partially offset by an increase in allocated capital. For more information on capital allocated to the business segments, see Business Segment Operations on page 11.

Nine-Month Comparison

Net income for *Global Markets* increased \$364 million to \$4.0 billion. Net DVA losses were \$104 million compared to gains of \$213 million in the prior-year period. Excluding net DVA, net income increased \$605 million to \$4.1 billion. These increases were primarily driven by higher revenue, partially offset by higher noninterest expense.

Revenue increased \$1.2 billion to \$15.4 billion primarily due to the same factors as described in the three-month discussion. Sales and trading revenue increased \$793 million, and excluding net DVA, sales and trading revenue increased \$1.1 billion. These increases were driven by higher revenue in FICC, partially offset by lower revenue in Equities.

Noninterest expense increased \$686 million to \$9.9 billion primarily driven by the same factors as described in the three-month discussion, partially offset by expenses recognized for certain regulatory matters in the prior-year period.

Average total assets increased \$12.6 billion to \$870.4 billion due to the same factors as described in the three-month discussion. Period-end total assets increased \$52.3 billion from December 31, 2022 to \$864.8 billion driven by higher levels of inventory, increased secured financing activity and loan growth in FICC, partially offset by lower levels of inventory in Equities.

The return on average allocated capital was 12 percent, unchanged from the same period a year ago.

Sales and Trading Revenue

For a description of sales and trading revenue, see Business Segment Operations in the MD&A of the Corporation's 2022 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 also 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 7.

Sales and Trading Revenue (1, 2, 3)

	Three Months Ended September 30				Nine Months Ended September 30				
(Dollars in millions)		2023		2022		2023		2022	
Sales and trading revenue									
Fixed income, currencies and commodities	\$	2,710	\$	2,552	\$	8,817	\$	7,760	
Equities		1,695		1,540		4,940		5,204	
Total sales and trading revenue	\$	4,405	\$	4,092	\$	13,757	\$	12,964	
Sales and trading revenue, excluding net DVA (4)									
Fixed income, currencies and commodities	\$	2,723	\$	2,567	\$	8,916	\$	7,555	
Equities		1,698		1,539		4,945		5,196	
Total sales and trading revenue, excluding net DVA	\$	4,421	\$	4,106	\$	13,861	\$	12,751	

- (1) For more information on sales and trading revenue, see Note 3 Derivatives to the Consolidated Financial Statements.
- Includes FTE adjustments of \$109 million and \$285 million for the three and nine months ended September 30, 2023 compared to \$58 million and \$253 million for the same periods in 2022.
- (3) Includes Global Banking sales and trading revenue of \$133 million and \$464 million for the three and nine months ended September 30, 2023 compared to \$287 million and \$785 million for the same periods in 2022.
- (4) FICC and Equities sales and trading revenue, excluding net DVA, is a non-GAAP financial measure. FICC net DVA gains (losses) were \$(13) million and \$(99) million for the three and nine months ended September 30, 2023 compared to \$(15) million and \$205 million for the same periods in 2022. Equities net DVA gains (losses) were \$(3) million and \$(5) million for the three and nine months ended September 30, 2023 compared to \$1 million and \$8 million for the same periods in 2022.

Three-Month Comparison

Including and excluding net DVA, FICC revenue increased \$158 million and \$156 million primarily driven by an improved trading environment for credit and mortgage products, partially offset by

weaker trading in currency and interest rate products. Including and excluding net DVA, Equities revenue increased \$155 million and \$159 million driven by an increase in client financing activities.

Nine-Month Comparison

Including and excluding net DVA, FICC revenue increased \$1.1 billion and \$1.4 billion primarily driven by an improved trading environment for credit and mortgage products and an increase

in secured financing activity. Including and excluding net DVA, Equities revenue decreased \$264 million and \$251 million driven by weaker trading performance in derivatives, partially offset by an increase in client financing activities.

All Other

	Thre	Three Months Ended September 30				Ni			
(Dollars in millions)		2023		2022	% Change		2023	2022	% Change
Net interest income	\$	99	\$	37	n/m	\$	260	\$ 73	n/m
Noninterest income (loss)		(1,717)		(836)	105 %		(5,103)	(3,599)	42 %
Total revenue, net of interest expense		(1,618)		(799)	103		(4,843)	(3,526)	37
Provision for credit losses		(24)		(58)	(59)		(77)	(130)	(41)
Noninterest expense		593		716	(17)		1,492	1,830	(18)
Loss before income taxes		(2,187)		(1,457)	50		(6,258)	(5,226)	20
Income tax benefit		(2,276)		(1,176)	94		(6,058)	(4,263)	42
Net income (loss)	\$	89	\$	(281)	(132)	\$	(200)	\$ (963)	(79)

Balance	Sheet
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	Thre	ee Months End	eptember 30					
Average		2023		2022	% Change	2023	2022	% Change
Total loans and leases	\$	9,412	\$	10,629	(11)%	\$ 9,742	\$ 13,457	(28)%
Total assets (1)		269,159		142,650	89	239,891	140,620	71
Total deposits		68,010		20,221	n/m	45,357	20,128	125

	September 30				
Period end		2023		2022	% Change
Total loans and leases	\$	9,283	\$	10,234	(9)%
Total assets (1)		303,903		155,074	96
Total deposits		85,588		19,905	n/m

⁽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 shareholders' equity. Average allocated assets were \$955.7 billion and \$981.8 billion for the three and nine months ended September 30, 2023 compared to \$1.1 trillion and \$1.1 trillion for the same periods in 2022, and period-end allocated assets were \$945.7 billion and \$1.0 trillion at September 30, 2023 and December 31 2022.

n/m = not meaningful

All Other primarily consists of asset and liability management (ALM) activities, liquidating businesses and certain expenses not otherwise allocated to a business segment. ALM activities encompass interest rate and foreign currency risk management activities for which substantially all of the results are allocated to our business segments. For more information on our ALM activities, see Note 17 – Business Segment Information to the Consolidated Financial Statements.

Three-Month Comparison

Results for *All Other* improved \$370 million to net income of \$89 million from a net loss in the prior-year period, reflecting a higher income tax benefit and lower noninterest expense, mostly offset by lower noninterest income.

Noninterest income decreased \$881 million primarily due to higher partnership losses for ESG investments.

Noninterest expense decreased \$123 million primarily driven by higher litigation expense in the prior-year period due to a legacy monoline insurance litigation settlement, partially offset by higher costs related to a liquidating business activity in the current-year period.

The income tax benefit increased \$1.1 billion, reflecting an increase in tax preference benefits primarily due to income tax

credits related to ESG investment activity. Both periods included income tax benefit adjustments to eliminate the FTE treatment of certain tax credits recorded in *Global Banking* and *Global Markets*.

Nine-Month Comparison

The net loss in *All Other* decreased \$763 million to \$200 million primarily due to a higher income tax benefit and lower noninterest expense, partially offset by lower noninterest income.

Noninterest income decreased \$1.5 billion primarily due to higher partnership losses for ESG investments and losses on sales of AFS debt securities, partially offset by derivative gains related to risk management activities.

Noninterest expense decreased \$338 million primarily due to the same factors as described in the three-month discussion and expenses recognized for certain regulatory matters in the prior-year period.

The income tax benefit increased \$1.8 billion primarily due to the same factor as described in the three-month discussion. Both periods included income tax benefit adjustments to eliminate the FTE treatment of certain tax credits recorded in *Global Banking* and *Global Markets*.

Managing Risk

Risk is inherent in all our business activities. The seven key types of risk faced by the Corporation are strategic, credit, market, liquidity, compliance, operational and reputational. Sound risk management enables us to serve our customers and deliver for our shareholders. If not managed well, risk 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. We take a comprehensive approach to risk management with a defined Risk Framework and an articulated Risk Appetite Statement, which are approved annually by the Enterprise Risk Committee and the Board.

Our Risk Framework serves as the foundation for the consistent and effective management of risks facing the Corporation. The Risk Framework sets forth roles and responsibilities 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 provides a common framework that includes a set of measures to assist senior management and the Board in assessing the Corporation's risk profile against our risk appetite and risk capacity. Our risk appetite is formally articulated in the Risk Appetite Statement, which includes both qualitative statements and quantitative limits.

For more information on the Corporation's risks, see Item 1A. Risk Factors of the Corporation's 2022 Annual Report on Form 10-K. These risks are being managed within our Risk Framework and supporting risk management programs. For more information on our Risk Framework, risk management activities and the key types of risk faced by the Corporation, see the Managing Risk section in the MD&A of the Corporation's 2022 Annual Report on Form 10-K.

Capital Management

The Corporation manages its capital position so that its capital is more than adequate to support its business activities and aligns with risk, risk appetite and strategic planning. For more information, including related regulatory requirements, see Capital Management in the MD&A of the Corporation's 2022 Annual Report on Form 10-K.

CCAR and Capital Planning

The Federal Reserve requires BHCs to submit a capital plan and planned capital actions on an annual basis, consistent with the rules governing the CCAR capital plan. Based on 2023 stress test results, our SCB is 2.5 percent effective October 1, 2023. For more information, see Executive Summary – Recent Developments – Capital Management on page 3.

In October 2021, the Board authorized the Corporation's \$25 billion common stock repurchase program (October 2021 Authorization). Additionally, the Board authorized common stock repurchases to offset shares awarded under the Corporation's equity-based compensation plans. Pursuant to the Board's authorizations, during the third quarter of 2023, we repurchased \$1.0 billion of common stock, including repurchases to offset shares awarded under equity-based compensation plans. In September 2023, the Board modified the October 2021 Authorization, effective October 1, 2023, to include repurchases to offset shares awarded under equity-based compensation plans when determining the remaining repurchase authority. As of October 1, 2023, the remaining repurchases authority was approximately \$13.6 billion (including repurchases to offset shares awarded under equity-based compensation plans).

The timing and amount of common stock repurchases are subject to various factors, including the Corporation's capital position, liquidity, financial performance and alternative uses of capital, stock trading price, regulatory requirements and general market conditions, and may be suspended at any time. Such 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 (Exchange Act).

Regulatory Capital

As a BHC, we are subject to regulatory capital rules, including Basel 3, issued by U.S. banking regulators. The Corporation's depository institution subsidiaries are also subject to the Prompt Corrective Action (PCA) framework. The Corporation and its primary affiliated banking entity, BANA, are Advanced approaches institutions under Basel 3 and are required to report regulatory risk-based capital ratios and RWA under both the Standardized and Advanced approaches. The lower of the capital ratios under Standardized or Advanced approaches compared to their respective regulatory capital ratio requirements is used to assess capital adequacy, including under the PCA framework. As of September 30, 2023, the CET1 capital, Tier 1 capital and Total capital ratios under the Standardized approach were the binding ratios.

Minimum Capital Requirements

In order to avoid restrictions on capital distributions and discretionary bonus payments, the Corporation must meet risk-based capital ratio requirements that include a capital conservation buffer of 2.5 percent (under the Advanced approaches only), an SCB (under the Standardized approach only), plus any applicable countercyclical capital buffer and a G-SIB surcharge. The buffers and surcharge must be comprised solely of CET1 capital. For the period from October 1, 2022 through September 30, 2023, the Corporation's minimum CET1 capital ratio requirements were 10.4 percent under the Standardized approach and 9.5 percent under the Advanced approaches. Effective October 1, 2023, our CET1 minimum requirement is 9.5 percent under both the Standardized and Advanced approaches.

The Corporation is required to calculate its G-SIB surcharge on an annual basis under two methods and is subject to the higher of the resulting two surcharges. Method 1 is consistent with the approach prescribed by the Basel Committee's assessment methodology and is calculated using specified indicators of systemic importance. Method 2 modifies the Method 1 approach by, among other factors, including a measure of the Corporation's reliance on short-term wholesale funding. The Corporation's G-SIB surcharge, which is higher under Method 2, is expected to increase 50 bps on January 1, 2024, which would increase our minimum CET1 capital ratio requirement. At September 30, 2023, the Corporation's CET1 capital ratio of 11.9 percent under the Standardized approach exceeded its current CET1 capital ratio requirement as well as the minimum requirement expected to be in place as of January 1, 2024 due to the anticipated increase in our G-SIB surcharge.

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

Capital Composition and Ratios

Table 8 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, 2023 and December 31, 2022. For the periods presented herein, the Corporation met the definition of well capitalized under current regulatory requirements.

Table 8 Bank of America Corporation Regulatory Capital under Basel 3

		tandardized pproach ⁽¹⁾		Advanced oproaches (1)	Regulatory Minimum ⁽²⁾
(Dollars in millions, except as noted)		S	epte	mber 30, 2023	
Risk-based capital metrics:					
Common equity tier 1 capital	\$	194,230	\$	194,230	
Tier 1 capital		222,623		222,623	
Total capital ⁽³⁾		251,137		241,712	
Risk-weighted assets (in billions)		1,632		1,441	
Common equity tier 1 capital ratio		11.9 %		13.5 %	10.4 %
Tier 1 capital ratio		13.6		15.4	11.9
Total capital ratio		15.4		16.8	13.9
Leverage-based metrics:					
Adjusted quarterly average assets (in billions) (4)	\$	3,051	\$	3,051	
Tier 1 leverage ratio		7.3 %		7.3 %	4.0
Supplementary leverage exposure (in billions)			\$	3,597	
Supplementary leverage ratio				6.2 %	5.0
		mber 31, 2022			
Risk-based capital metrics:					
Common equity tier 1 capital	\$	180,060	\$	180,060	
Tier 1 capital		208,446		208,446	
Total capital ⁽³⁾		238,773		230,916	
Risk-weighted assets (in billions)		1,605		1,411	
Common equity tier 1 capital ratio		11.2 %		12.8 %	10.4 %
Tier 1 capital ratio		13.0		14.8	11.9
Total capital ratio		14.9		16.4	13.9
Leverage-based metrics:					
Adjusted quarterly average assets (in billions) (4)	\$	2,997	\$	2,997	
Tier 1 leverage ratio		7.0 %		7.0 %	4.0
Supplementary leverage exposure (in billions)			\$	3,523	
Supplementary leverage ratio				5.9 %	5.0

⁽¹⁾ Capital ratios as of September 30, 2023 and December 31, 2022 are calculated using the regulatory capital rule that allows a five-year transition period related to the adoption of the current expected credit losses (CECL) accounting standard on January 1, 2020.

At September 30, 2023, CET1 capital was \$194.2 billion, an increase of \$14.2 billion from December 31, 2022, primarily due to earnings, partially offset by dividends and common stock repurchases. Tier 1 capital increased \$14.2 billion primarily driven by the same factors as CET1 capital. Total capital under the Standardized approach increased \$12.4 billion primarily due to the same factors driving the increase in Tier 1 capital and an increase in the adjusted allowance for credit losses included in Tier 2 capital, partially offset by a decrease in subordinated

debt. RWA under the Standardized approach, which yielded the lower CET1 capital ratio at September 30, 2023, increased \$27.5 billion during the nine months ended September 30, 2023 to \$1,632 billion primarily due to higher counterparty exposures in *Global Markets* and loan growth. Supplementary leverage exposure at September 30, 2023 increased \$73.9 billion primarily due to higher cash held at central banks, partially offset by lower debt securities balances.

The CET1 capital regulatory minimum is the sum of the CET1 capital ratio minimum of 4.5 percent, our G-SIB surcharge of 2.5 percent and our capital conservation buffer of 2.5 percent (under the Advanced approaches) or the SCB of 3.4 percent (under the Standardized approach), as applicable, at both September 30, 2023 and December 31, 2022. The countercyclical capital buffer was zero for both periods. The SLR regulatory minimum includes a leverage buffer of 2.0 percent.

⁽³⁾ Total capital under the Advanced approaches differs from the Standardized approach due to differences in the amount permitted in Tier 2 capital related to the qualifying allowance for credit losses

⁽⁴⁾ Reflects total average assets adjusted for certain Tier 1 capital deductions.

Table 9 Capital Composition under Basel 3

(Dollars in millions)	September 30 2023		De	cember 31 2022
Total common shareholders' equity	\$	258,667	\$	244,800
CECL transitional amount (1)		1,254		1,881
Goodwill, net of related deferred tax liabilities		(68,644)		(68,644)
Deferred tax assets arising from net operating loss and tax credit carryforwards		(7,778)		(7,776)
Intangibles, other than mortgage servicing rights, net of related deferred tax liabilities		(1,508)		(1,554)
Defined benefit pension plan net assets		(911)		(867)
Cumulative unrealized net (gain) loss related to changes in fair value of financial liabilities attributable to own creditworthiness,				
net-of-tax		967		496
Accumulated net (gain) loss on certain cash flow hedges (2)		12,251		11,925
Other		(68)		(201)
Common equity tier 1 capital		194,230		180,060
Qualifying preferred stock, net of issuance cost		28,396		28,396
Other		(3)		(10)
Tier 1 capital		222,623		208,446
Tier 2 capital instruments		15,981		18,751
Qualifying allowance for credit losses ⁽³⁾		13,007		11,739
Other		(474)		(163)
Total capital under the Standardized approach		251,137		238,773
Adjustment in qualifying allowance for credit losses under the Advanced approaches (3)		(9,425)		(7,857)
Total capital under the Advanced approaches	\$	241,712	\$	230,916

Table 10 shows the components of RWA as measured under Basel 3 at September 30, 2023 and December 31, 2022.

Table 10 Risk-weighted Assets under Basel 3

				Advanced Approaches		andardized Approach		dvanced proaches
(Dollars in billions)		September	2023		December	r 31, 2022		
Credit risk	\$	1,564	\$	966	\$	1,538	\$	939
Market risk		68		67		67		67
Operational risk		n/a		364		n/a		364
Risks related to credit valuation adjustments		n/a		44		n/a		41
Total risk-weighted assets	\$	1,632	\$	1,441	\$	1,605	\$	1,411

n/a = not applicable

Bank of America, N.A. Regulatory Capital

Table 11 presents regulatory capital information for BANA in accordance with Basel 3 Standardized and Advanced approaches as measured at September 30, 2023 and December 31, 2022. BANA met the definition of well capitalized under the PCA framework for both periods.

⁽¹⁾ September 30, 2023 and December 31, 2022 include 50 percent and 75 percent of the CECL transition provision's impact as of December 31, 2021.
(2) Includes amounts in accumulated other comprehensive income (OCI) related to the hedging of items that are not recognized at fair value on the Consolidated Balance Sheet.
(3) Includes the impact of transition provisions related to the CECL accounting standard.

Table 11 Bank of America, N.A. Regulatory Capital under Basel 3

		tandardized Approach ⁽¹⁾		Advanced proaches (1)	Regulatory Minimum ⁽²⁾
(Dollars in millions, except as noted)			Septe	mber 30, 2023	
Risk-based capital metrics:					
Common equity tier 1 capital	\$	184,779	\$	184,779	
Tier 1 capital		184,779		184,779	
Total capital (3)		199,115		189,897	
Risk-weighted assets (in billions)		1,387		1,105	
Common equity tier 1 capital ratio		13.3 %		16.7 %	7.0 %
Tier 1 capital ratio		13.3		16.7	8.5
Total capital ratio		14.4		17.2	10.5
Leverage-based metrics:					
Adjusted quarterly average assets (in billions) (4)	\$	2,390	\$	2,390	
Tier 1 leverage ratio		7.7 %		7.7 %	5.0
Supplementary leverage exposure (in billions)			\$	2,831	
Supplementary leverage ratio				6.5 %	6.0
	December 3				
Risk-based capital metrics:					
Common equity tier 1 capital	\$	181,089	\$	181,089	
Tier 1 capital		181,089		181,089	
Total capital (3)		194,254		186,648	
Risk-weighted assets (in billions)		1,386		1,087	
Common equity tier 1 capital ratio		13.1 %		16.7 %	7.0 %
Tier 1 capital ratio		13.1		16.7	8.5
Total capital ratio		14.0		17.2	10.5
Leverage-based metrics:					
Adjusted quarterly average assets (in billions) (4)	\$	2,358	\$	2,358	
Tier 1 leverage ratio		7.7 %		7.7 %	5.0
Supplementary leverage exposure (in billions)			\$	2,785	
Supplementary leverage ratio				6.5 %	6.0

⁽¹⁾ Capital ratios as of September 30, 2023 and December 31, 2022 are calculated using the regulatory capital rule that allows a five-year transition period related to the adoption of the CECL accounting standard on January 1, 2020.

Total Loss-Absorbing Capacity Requirements

TLAC consists of the Corporation's Tier 1 capital and eligible long-term debt issued directly by the Corporation. Eligible long-term debt for TLAC ratios is comprised of unsecured debt that has a remaining maturity of at least one year and satisfies additional requirements as prescribed in the TLAC final rule. As with the risk-based capital ratios and SLR, the Corporation is

required to maintain TLAC ratios in excess of minimum requirements plus applicable buffers to avoid restrictions on capital distributions and discretionary bonus payments. Table 12 presents the Corporation's TLAC and long-term debt ratios and related information as of September 30, 2023 and December 31, 2022.

Risk-based capital regulatory minimums at both September 30, 2023 and December 31, 2022 are the minimum ratios under Basel 3 including a capital conservation buffer of 2.5 percent. The regulatory minimums for the leverage ratios as of both period ends are the percent required to be considered well capitalized under the PCA framework.

⁽³⁾ Total capital under the Advanced approaches differs from the Standardized approach due to differences in the amount permitted in Tier 2 capital related to the qualifying allowance for credit losses.

⁽⁴⁾ Reflects total average assets adjusted for certain Tier 1 capital deductions.

Table 12 Bank of America Corporation Total Loss-Absorbing Capacity and Long-Term Debt

		TLAC (1)		Long-term Debt	Regulatory Minimum ⁽³⁾				
(Dollars in millions)	September 30, 2023								
Total eligible balance	\$	478,360		\$ 241,717					
Percentage of risk-weighted assets (4)		29.3 %	22.0 %	14.8 %	8.5 %				
Percentage of supplementary leverage exposure		13.3	9.5	6.7	4.5				
			December 31, 2022						
Total eligible balance	\$	465,451		\$ 243,833					
Percentage of risk-weighted assets (4)		29.0 %	22.0 %	15.2 %	8.5 %				
Percentage of supplementary leverage exposure		13.2	9.5	6.9	4.5				

⁽¹⁾ As of September 30, 2023 and December 31, 2022, TLAC ratios are calculated using the regulatory capital rule that allows a five-year transition period related to the adoption of the CECL accounting standard on January 1, 2020.

Regulatory Developments

On July 27, 2023, U.S. banking regulators issued proposed rules that would update future U.S. regulatory capital requirements. Under the capital proposal, the Advanced approaches would be replaced with a new standardized approach, referred to as the expanded risk-based approach, which would be phased in over a three-year period beginning July 1, 2025. U.S. banking regulators also issued proposed rules to revise the risk-based capital surcharge for G-SIBs, which would be effective two calendar quarters after finalization. On August 29, 2023, U.S. banking regulators issued proposed rules that would change the criteria for debt instruments included in the Corporation's eligible long-term debt and TLAC. Any final rules issued are subject to change from the current proposals. The Corporation is evaluating the potential impact of the proposed rules on its regulatory capital, eligible long-term debt and TLAC requirements.

Regulatory Capital and Securities Regulation

The Corporation's principal U.S. broker-dealer subsidiaries are BofA Securities, Inc. (BofAS) and Merrill Lynch, Pierce, Fenner & Smith Incorporated (MLPF&S). On August 13, 2023, Merrill Lynch Professional Clearing Corp. (MLPCC) merged into its immediate parent, BofAS. Prior to that date, MLPCC was a fully-guaranteed subsidiary of BofAS and provided clearing and settlement services as well as prime brokerage and arranged financing services for institutional clients. Following the merger, client services previously provided by MLPCC are now being provided by or through BofAS.

The Corporation's principal European broker-dealer subsidiaries are Merrill Lynch International (MLI) and BofA Securities Europe SA (BofASE).

The U.S. broker-dealer subsidiaries are subject to the net capital requirements of Rule 15c3-1 under the Exchange Act. BofAS computes its minimum capital requirements as an alternative net capital broker-dealer under Rule 15c3-1e, and MLPF&S computes its minimum capital requirements in accordance with the alternative standard under Rule 15c3-1. BofAS is registered as a futures commission merchant and is subject to Commodity Futures Trading Commission (CFTC) Regulation 1.17. The U.S. broker-dealer subsidiaries are also registered with the Financial Industry Regulatory Authority, Inc. (FINRA). Pursuant to FINRA Rule 4110, FINRA may impose higher net capital requirements than Rule 15c3-1 under the Exchange Act with respect to each of the broker-dealers.

BofAS provides institutional services, and in accordance with the alternative net capital requirements, is required to maintain tentative net capital in excess of \$5.0 billion and net capital in excess of the greater of \$1.0 billion or a certain percentage of its reserve requirement in addition to a certain percentage of securities-based swap risk margin. BofAS must also notify the SEC in the event its tentative net capital is less than \$6.0 billion. BofAS is also required to hold a certain percentage of its customers' and affiliates' risk-based margin in order to meet its CFTC minimum net capital requirement. At September 30, 2023, BofAS had tentative net capital of \$25.1 billion. BofAS also had regulatory net capital of \$23.0 billion, which exceeded the minimum requirement of \$4.3 billion.

MLPF&S provides retail services. At September 30, 2023, MLPF&S' regulatory net capital was \$6.2 billion, which exceeded the minimum requirement of \$136 million.

Our European broker-dealers are subject to requirements from U.S. and non-U.S. regulators. 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, 2023, MLI's capital resources were \$33.7 billion, which exceeded the minimum Pillar 1 requirement of \$10.8 billion.

BofASE, an authorized credit institution with its head office located in France, is regulated by the Autorité de Contrôle Prudentiel et de Résolution and the Autorité des Marchés Financiers, and supervised under the Single Supervisory Mechanism by the European Central Bank. At September 30, 2023, BofASE's capital resources were \$9.2 billion, which exceeded the minimum Pillar 1 requirement of \$3.5 billion.

In addition, MLI and BofASE became conditionally registered with the SEC as security-based swap dealers in the fourth quarter of 2021, and maintained net liquid assets at September 30, 2023 that exceeded the applicable minimum requirements under the Exchange Act.

Liquidity Risk

Funding and Liquidity Risk Management

Our primary liquidity risk management objective is to meet expected or unexpected cash flow and collateral requirements, including payments under long-term debt agreements, commitments to extend credit and customer deposit withdrawals, while continuing to support our businesses and customers under a range of economic conditions. To achieve

⁽²⁾ The TLAC RWA regulatory minimum consists of 18.0 percent plus a TLAC RWA buffer comprised of 2.5 percent plus the Method 1 G-SIB surcharge of 1.5 percent. The countercyclical buffer is zero for both periods. The TLAC supplementary leverage exposure regulatory minimum consists of 7.5 percent plus a 2.0 percent TLAC leverage buffer. The TLAC RWA and leverage buffers must be comprised solely of CET1 capital and Tier 1 capital, respectively.

The long-term debt RWA regulatory minimum is comprised of 6.0 percent plus an additional 2.5 percent requirement based on the Corporation's Method 2 G-SIB surcharge. The long-term debt leverage exposure regulatory minimum is 4.5 percent.

The approach that yields the higher RWA is used to calculate TLAC and long-term debt ratios, which was the Standardized approach as of September 30, 2023 and December 31, 2022.

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. These liquidity risk management practices have allowed us to effectively manage the market stress from increased volatility due to the failure of certain financial institutions in the first half of 2023. Our practices have also allowed us to effectively manage market fluctuations from the rising interest rate environment, inflationary pressures and changes in the macroeconomic environment.

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 they 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 on the Corporation's liquidity risks, see the Liquidity section within Item 1A. Risk Factors of the Corporation's 2022 Annual Report on Form 10-K. For more information regarding global funding and liquidity risk management, as well as liquidity sources, arrangements, contingency planning and credit ratings discussed below, see Liquidity Risk in the MD&A of the Corporation's 2022 Annual Report on Form 10-K.

NB Holdings Corporation

Bank of America Corporation, as the parent company (the Parent), which is a separate and distinct legal entity from our bank and nonbank subsidiaries, has an intercompany arrangement with our wholly-owned holding company subsidiary, NB Holdings Corporation (NB Holdings). We have transferred, and agreed to transfer, additional Parent assets not required to satisfy anticipated near-term expenditures to NB Holdings. The Parent 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 it 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 would be resolved under the U.S. Bankruptcy Code.

Global Liquidity Sources and Other Unencumbered Assets

We maintain liquidity available to the Corporation, including the Parent and selected subsidiaries, in the form of cash and high-quality, liquid, unencumbered securities. Our liquidity buffer, referred to as Global Liquidity Sources (GLS), is comprised of assets that are readily available to the Parent and selected subsidiaries, including holding company, bank and broker-dealer subsidiaries, even during stressed market conditions. Our cash

is primarily on deposit with the Federal Reserve Bank and, to a lesser extent, central banks outside of the U.S. We limit the composition of high-quality, liquid, unencumbered securities to U.S. government securities, U.S. agency securities, U.S. agency mortgage-backed securities and other investment-grade securities, and a select group of non-U.S. government securities. We can obtain cash for these securities, even in stressed conditions, through repurchase agreements or outright sales. We hold our GLS in legal entities that allow us to meet the liquidity requirements of our global businesses, and we consider the impact of potential regulatory, tax, legal and other restrictions that could limit the transferability of funds among entities.

Table 13 presents average GLS for the three months ended September 30, 2023 and December 31, 2022.

Table 13 Average Global Liquidity Sources

	Three Months Ended						
	Septe	mber 30	December 3				
(Dollars in billions)	2	023	2022				
Bank entities	\$	693	\$	694			
Nonbank and other entities (1)		166		174			
Total Average Global Liquidity Sources	\$	859	\$	868			

(1) Nonbank includes Parent, NB Holdings and other regulated entities.

Our bank subsidiaries' liquidity is primarily driven by deposit and lending activity, as well as securities valuation and net debt activity. 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 \$327 billion and \$348 billion at September 30, 2023 and December 31, 2022. 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 or nonbank subsidiaries may be subject to prior regulatory approval.

Liquidity is also held in nonbank entities, including the Parent, NB Holdings and other regulated entities. The Parent and NB Holdings liquidity is typically in the form of cash deposited at BANA, which is excluded from the liquidity at bank subsidiaries, and high-quality, liquid, unencumbered securities. 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 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, 2023 and December 31, 2022.

Table 14 Average Global Liquidity Sources Composition

	Three Months Ended									
	Septe	mber 30	De	cember 31						
(Dollars in billions)	2	023		2022						
Cash on deposit	\$	350	\$	174						
U.S. Treasury securities		136		252						
U.S. agency securities, mortgage-backed securities, and other investment-grade										
securities		357		427						
Non-U.S. government securities		16		15						
Total Average Global Liquidity Sources	\$	859	\$	868						

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 \$582 billion and \$605 billion for the three months ended September 30, 2023 and December 31, 2022. For the same periods, the average consolidated LCR was 116 percent and 120 percent. Our LCR fluctuates 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 and our subsidiaries to meet contractual and contingent cash outflows under a range of scenarios. For more information on liquidity stress analysis, see Liquidity Risk – Liquidity Stress Analysis in the MD&A of the Corporation's 2022 Annual Report on Form 10-K.

Net Stable Funding Ratio

The Net Stable Funding Ratio (NSFR) is a liquidity requirement for large banks to maintain a minimum level of stable funding over a one-year period. The requirement is intended to support the ability of banks to lend to households and businesses in both normal and adverse economic conditions and is complementary to the LCR, which focuses on short-term liquidity risks. The U.S. NSFR applies to the Corporation on a

consolidated basis and to our insured depository institutions. At September 30, 2023, the Corporation and its insured depository institutions were in compliance with the U.S. NSFR.

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 \$1.88 trillion and \$1.93 trillion at September 30, 2023 and December 31, 2022. 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.

Deposits

Our deposit base is well-diversified by clients, geography and product type across our business segments. At September 30, 2023, 52 percent of our deposits were in Consumer Banking, 15 percent in GWIM and 26 percent in Global Banking. We consider a substantial portion of our deposit base to be a stable, low-cost and consistent source of liquidity. At September 30, 2023, approximately 67 percent of consumer and small business deposits and 79 percent of U.S. deposits in Global Banking were held by clients who have had accounts with us for 10 or more years. In addition, at September 30, 2023 and December 31, 2022, 30 percent and 34 percent of our deposits were noninterest-bearing and included operating accounts of our consumer and commercial clients. Deposits at September 30, 2023 decreased \$45.7 billion, or two percent. from December 31, 2022 primarily due to an increase in customer spending and debt payments, customers' movement of balances to higher yielding investment alternatives and seasonal outflows.

Long-term Debt

During the nine months ended September 30, 2023, we issued \$54.0 billion of long-term debt consisting of \$23.0 billion of notes issued by Bank of America Corporation, substantially all of which were TLAC compliant, \$18.7 billion of notes issued by Bank of America, N.A. and \$12.3 billion of other debt.

During the nine months ended September 30, 2023, we had total long-term debt maturities and redemptions in the aggregate of \$33.0 billion consisting of \$22.5 billion for Bank of America Corporation, \$4.6 billion for Bank of America, N.A. and \$5.9 billion of other debt. Table 15 presents the carrying value of aggregate annual contractual maturities of long-term debt at September 30, 2023.

Table 15 Long-term Debt by Maturity

	Rer	mainder of							
(Dollars in millions)		2023	2024	2025	2026	2027	Т	hereafter	Total
Bank of America Corporation									
Senior notes (1)	\$	_	\$ 10,018	\$ 24,938	\$ 24,026	\$ 20,847	\$	121,225	\$ 201,054
Senior structured notes		281	695	677	1,116	614		9,437	12,820
Subordinated notes		_	3,141	5,089	4,831	2,108		9,938	25,107
Junior subordinated notes		_	_	_	_	200		557	757
Total Bank of America Corporation		281	13,854	30,704	29,973	23,769		141,157	239,738
Bank of America, N.A.									
Senior notes		_	5,470	2,393	2,586	_		_	10,449
Subordinated notes		_	_	_	21	_		1,397	1,418
Advances from Federal Home Loan Banks		100	4,750	13	9	4		51	4,927
Securitizations and other Bank VIEs (2)		1,000	1,000	2,244	1,423	_		552	6,219
Other		32	532	152	35	42		4	797
Total Bank of America, N.A.		1,132	11,752	4,802	4,074	46		2,004	23,810
Other debt									
Structured Liabilities		1,857	5,390	2,468	3,582	1,932		11,211	26,440
Nonbank VIEs (2)		_	5	24	7	_		335	371
Total other debt		1,857	5,395	2,492	3,589	1,932		11,546	26,811
Total long-term debt	\$	3,270	\$ 31,001	\$ 37,998	\$ 37,636	\$ 25,747	\$	154,707	\$ 290,359

⁽¹⁾ Total includes \$181.2 billion of outstanding notes that are both TLAC eligible and callable one year before their stated maturities, including \$2.5 billion during the remainder of 2023, and \$21.6 billion, \$21.4 billion, \$20.8 billion and \$24.0 billion during each year of 2024 through 2027, respectively, and \$90.8 billion thereafter. For more information on our TLAC eligible and callable outstanding notes, see Liquidity Risk – Diversified Funding Sources in the MD&A of the Corporation's 2022 Annual Report on Form 10-K. Represents liabilities of consolidated variable interest entities (VIEs) included in total long-term debt on the Consolidated Balance Sheet.

Total long-term debt increased \$14.4 billion to \$290.4 billion during the nine months ended September 30, 2023 primarily due to debt issuances, partially offset by debt maturities. redemptions. repurchases and valuation adjustments. We may, from time to time, purchase outstanding debt instruments in various transactions, depending on market conditions, liquidity and other factors. Our other regulated entities may also make markets in our debt instruments to provide liquidity for investors.

During the nine months ended September 30, 2023, we issued \$11.3 billion of structured notes, which are debt obligations that pay investors returns linked to other debt or equity securities, indices, currencies or commodities. These structured notes are typically issued to meet client demand, and notes with certain attributes may also be TLAC eligible. 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. For more information on long-term debt funding, including issuances and maturities and redemptions, see Note 11 - Long-term Debt to the Consolidated Financial Statements of the Corporation's 2022 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 46.

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 16 presents the Corporation's current long-term/short-term senior debt ratings and outlooks expressed by the rating agencies.

The ratings and outlooks from Fitch Ratings for the Corporation and its subsidiaries have not changed from those disclosed in the Corporation's 2022 Annual Report on Form 10-K. The ratings and outlooks from Moody's Investors Service (Moody's) and Standard and Poor's Global Ratings (S&P) for the Corporation and its subsidiaries have not changed from those disclosed in the Corporation's Quarterly Report on Form 10-0 for the guarter ended June 30, 2023.

For more information on additional collateral and termination payments that could be required in connection with certain overthe-counter derivative contracts and other trading agreements in the event of a credit rating downgrade, see Note 3 - Derivatives to the Consolidated Financial Statements herein and Item 1A. Risk Factors of the Corporation's 2022 Annual Report on Form 10-K.

Table 16 Senior Debt Ratings

	Mood	ly's Investors Se	rvice	Standard	l & Poor's Globa	I Ratings	Fitch Ratings					
	Long-term	Short-term	Outlook	Long-term	Short-term	Outlook	Long-term	Short-term	Outlook			
Bank of America Corporation	A1	P-1	Stable	A-	A-2	Stable	AA-	F1+	Stable			
Bank of America, N.A.	Aa1	P-1	Stable	A+	A-1	Stable	AA	F1+	Stable			
Bank of America Europe Designated Activity Company	NR	NR	NR	A+	A-1	Stable	AA	F1+	Stable			
Merrill Lynch, Pierce, Fenner & Smith Incorporated	NR	NR	NR	A+	A-1	Stable	AA	F1+	Stable			
BofA Securities, Inc.	NR	NR	NR	A+	A-1	Stable	AA	F1+	Stable			
Merrill Lynch International	NR	NR	NR	A+	A-1	Stable	AA	F1+	Stable			
BofA Securities Europe SA	NR	NR	NR	A+	A-1	Stable	AA	F1+	Stable			

NR = not rated

Finance Subsidiary Issuers and Parent Guarantor

BofA Finance LLC, a Delaware limited liability company (BofA Finance), is a consolidated finance subsidiary of the Corporation that has issued and sold, and is expected to continue to issue and sell, its senior unsecured debt securities (Guaranteed Notes) that are fully and unconditionally guaranteed by the Corporation. The Corporation guarantees the due and punctual payment, on demand, of amounts payable on the Guaranteed Notes if not paid by BofA Finance. In addition, each of BAC Capital Trust XIII, BAC Capital Trust XIV and BAC Capital Trust XV, Delaware statutory trusts (collectively, the Trusts) is a 100 percent owned finance subsidiary of the Corporation that has issued and sold trust preferred securities (the Trust Preferred Securities) or capital securities (the Capital Securities and, together with the Guaranteed Notes and the Trust Preferred Securities, the Guaranteed Securities), as applicable, that remained outstanding at September 30, 2023. The Corporation has fully and unconditionally guaranteed (or effectively provided for the full and unconditional guarantee of) all such securities issued by such finance subsidiaries. For more information regarding such guarantees by the Corporation, see Liquidity Risk Finance Subsidiary Issuers and Parent Guarantor in the MD&A of the Corporation's 2022 Annual Report on Form 10-K.

Representations and Warranties Obligations

For information on representations and warranties obligations in connection with the sale of mortgage loans, see *Note 12 – Commitments and Contingencies* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

Credit Risk Management

For information on our credit risk management activities, see the following: Consumer Portfolio Credit Risk Management on page 30, Commercial Portfolio Credit Risk Management on page 35, Non-U.S. Portfolio on page 41, Allowance for Credit Losses on page 42, and Note 5 – Outstanding Loans and Leases and Allowance for Credit Losses to the Consolidated Financial Statements. For information on the Corporation's loan modification programs, see Note 1 – Summary of Significant Accounting Principles and Note 5 – Outstanding Loans and Leases and Allowance for Credit Losses to the Consolidated Financial Statements. For more information on the Corporation's credit risks, see the Credit section within Item 1A. Risk Factors of the Corporation's 2022 Annual Report on Form 10-K.

During the nine months ended September 30, 2023, our asset quality remained relatively healthy. Our net charge-off ratio increased primarily driven by credit card loans, as delinquency trends continue to slowly increase off of historic lows; however,

they remain below the same period in 2019. Nonperforming loans increased modestly compared to December 31, 2022 driven by the commercial real estate office property type, while commercial reservable criticized exposure increased driven by both office as well as other industries that have been impacted by the current environment. Uncertainty remains regarding broader economic impacts as a result of inflationary pressures, rising rates and the current geopolitical environment and could lead to adverse impacts to credit quality metrics in future periods.

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

During the nine months ended September 30, 2023, the U.S. unemployment rate remained relatively stable and home prices have increased slightly in recent months. During the three and nine months ended September 30, 2023, net charge-offs increased \$345 million and \$853 million to \$804 million and \$2.2 billion compared to the same periods in 2022 primarily due to late-stage delinquent credit card loans that were charged off.

The consumer allowance for loan and lease losses increased \$930 million during the nine months ended September 30, 2023 to \$8.2 billion. For more information, see Allowance for Credit Losses on page 42.

For more information on our accounting policies regarding delinquencies, nonperforming status, charge-offs and loan modifications for the consumer portfolio, see *Note 1 – Summary of Significant Accounting Principles* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K and *Note 5 – Outstanding Loans and Leases and Allowance for Credit Losses* to the Consolidated Financial Statements.

Table 17 presents our outstanding consumer loans and leases, consumer nonperforming loans and accruing consumer loans past due 90 days or more.

Table 17 Consumer Credit Quality

		Outsta	ndin	gs		Nonper	form	ing		Accruing Past Due 90 Days or More					
(Dollars in millions)	Sep	otember 30 2023	De	cember 31 2022	Se	ptember 30 2023	De	cember 31 2022	Se	ptember 30 2023	De	cember 31 2022			
Residential mortgage (1)	\$	\$ 229,166		229,670	\$	2,185	\$	2,167	\$	265	\$	368			
Home equity		25,492		26,563		479		510		_		_			
Credit card		99,687		93,421		n/a		n/a		1,016		717			
Direct/Indirect consumer (2)		104,059		106,236		128		77		1		2			
Other consumer		122		156		_		_		_		_			
Consumer loans excluding loans accounted for under the fair value option	\$	458,526	\$	456,046	\$	2,792	\$	2,754	\$	1,282	\$	1,087			
Loans accounted for under the fair value option (3)		253		339											
Total consumer loans and leases	\$	458,779	\$	456,385											
Percentage of outstanding consumer loans and leases (4)		n/a		n/a		0.61 %		0.60 %		0.28 %		0.24 %			
Percentage of outstanding consumer loans and leases, excluding fully-insured loan portfolios (4)		n/a		n/a		0.62		0.62		0.23		0.16			

⁽¹⁾ Residential mortgage loans accruing past due 90 days or more are fully-insured loans. At September 30, 2023 and December 31, 2022, residential mortgage included \$180 million and \$260 million of loans on which interest had been curtailed by the Federal Housing Administration (FHA), and therefore were no longer accruing interest, although principal was still insured, and \$85 million and \$108 million of loans on which interest was still accruing.

n/a = not applicable

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

Table 18 Consumer Net Charge-offs and Related Ratios

		Net Cha	ırge	-offs		Net Charge-off Ratios (1)							
	Three Moi Septen			Nine Mon Septem			Three Montl Septemb		Nine Months Ended September 30				
(Dollars in millions)	2023	2022		2023		2022	2023	2022	2023	2022			
Residential mortgage	\$ 2	\$ (3)	\$	5	\$	73	— %	(0.01)%	— %	0.04 %			
Home equity	(14)	(18)		(42)		(72)	(0.22)	(0.25)	(0.22)	(0.35)			
Credit card	673	328		1,784		948	2.72	1.53	2.52	1.55			
Direct/Indirect consumer	25	9		43		17	0.10	0.03	0.05	0.02			
Other consumer	118	143		387		358	n/m	n/m	n/m	n/m			
Total	\$ 804	\$ 459	\$	2,177	7 \$ 1,324		0.70 0.41		0.64	0.40			

⁽¹⁾ Net charge-off ratios are calculated as annualized net charge-offs divided by average outstanding loans and leases, excluding loans accounted for under the fair value option. n/m = not meaningful

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

Residential Mortgage

The residential mortgage portfolio made up the largest percentage of our consumer loan portfolio at 50 percent of consumer loans and leases at September 30, 2023. Approximately 51 percent of the residential mortgage portfolio

was in Consumer Banking, 46 percent was in GWIM and the remaining portion was in All Other.

Outstanding balances in the residential mortgage portfolio decreased \$504 million during the nine months ended September 30, 2023, as paydowns outpaced new originations.

At September 30, 2023 and December 31, 2022, the residential mortgage portfolio included \$11.0 billion and \$11.7 billion of outstanding fully-insured loans, of which \$2.1 billion and \$2.2 billion had FHA insurance, with the remainder protected by Fannie Mae long-term standby agreements.

Table 19 presents certain residential mortgage key credit statistics on both a reported basis and excluding the fully-insured loan portfolio. The following discussion presents the residential mortgage portfolio excluding the fully-insured loan portfolio.

⁽²⁾ Outstandings primarily includes auto and specialty lending loans and leases of \$54.0 billion and \$51.8 billion, U.S. securities-based lending loans of \$46.5 billion and \$50.4 billion at September 30, 2023 and December 31, 2022, and non-U.S. consumer loans of \$2.8 billion and \$3.0 billion at September 30, 2023 and December 31, 2022.

For more information on the fair value option, see Note 15 – Fair Value Option to the Consolidated Financial Statements.

⁽⁴⁾ Excludes consumer loans accounted for under the fair value option. At September 30, 2023 and December 31, 2022, \$4 million and \$7 million of loans accounted for under the fair value option were past due 90 days or more and not accruing interest.

Table 19 Residential Mortgage - Key Credit Statistics

		Reporte	d Basis	Excluding Fully-insured Loans (1)							
	Se	ptember 30	D	ecember 31	Se	eptember 30	С	ecember 31			
(Dollars in millions)		2023		2022		2023		2022			
Outstandings	\$	229,166	\$	229,670	\$	218,124	\$	217,976			
Accruing past due 30 days or more		1,447		1,471		925		844			
Accruing past due 90 days or more		265		368		_		_			
Nonperforming loans (2)		2,185		2,167		2,185		2,167			
Percent of portfolio											
Refreshed LTV greater than 90 but less than or equal to 100		1%		1 %		1%		1 %			
Refreshed LTV greater than 100		_		_		_		_			
Refreshed FICO below 620		1		1		1		1			

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

Nonperforming outstanding balances in the residential mortgage portfolio of \$2.2 billion remained relatively unchanged during the nine months ended September 30, 2023. Of the nonperforming residential mortgage loans at September 30, 2023, \$1.3 billion, or 61 percent, were current on contractual payments. Loans accruing past due 30 days or more increased \$81 million.

Of the \$218.1 billion in total residential mortgage loans outstanding at September 30, 2023, \$62.8 billion, or 29 percent, of loans were originated as interest-only. The outstanding balance of interest-only residential mortgage loans that had entered the amortization period was \$3.5 billion, or six percent, at September 30, 2023. Residential mortgage loans that have entered the amortization period generally experience a higher rate of early stage delinquencies and nonperforming status compared to the residential mortgage portfolio as a whole. At September 30, 2023, \$66 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 \$925 million, or less than one percent, for the

entire residential mortgage portfolio. In addition, at September 30, 2023, \$199 million, or six percent, of outstanding interest-only residential mortgage loans that had entered the amortization period were nonperforming, of which \$63 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 3 to 10 years. Substantially all of these loans that have yet to enter the amortization period will not be required to make a fully-amortizing payment until 2025 or later.

Table 20 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 14 percent of outstandings at both September 30, 2023 and December 31, 2022. In the New York area, the New York-Northern New Jersey-Long Island MSA made up 15 percent of outstandings at both September 30, 2023 and December 31, 2022.

Table 20 Residential Mortgage State Concentrations

		Outstan	ding	s ⁽¹⁾		Nonperfo	rmi	ng ⁽¹⁾	Net Charge-offs										
	Sep	tember 30	30 December 31		September 30		December 31		Three Months Ended September 30					Nine Mont Septem					
(Dollars in millions)		2023		2022		2023		2022		2023		2022		2023		2022			
California	\$	81,168	\$	80,878	\$	671	\$	656	\$	1	\$	(2)	\$	_	\$	38			
New York		26,031		26,228		331		328		_		(1)		3		4			
Florida		15,445		15,225		135		145		_		_		(2)		(1)			
Texas		9,404		9,399		93		88		_		_		1		1			
New Jersey		8,724		8,810		99		96		_		(1)		(1)		2			
Other		77,352		77,436		856		854		1		1		4		29			
Residential mortgage loans	\$	218,124	\$	217,976	\$	2,185	\$	2,167	\$	2	\$	(3)	\$	5	\$	73			
Fully-insured loan portfolio		11,042		11,694															
Total residential mortgage loan																			
portfolio	\$	229,166	\$	229,670															

 $^{^{(1)}}$ Outstandings and nonperforming loans exclude loans accounted for under the fair value option.

⁽²⁾ Includes loans that are contractually current that have not yet demonstrated a sustained period of payment performance following a modification.

Home Equity

At September 30, 2023, the home equity portfolio made up six percent of the consumer portfolio and was comprised of home equity lines of credit (HELOCs), home equity loans and reverse mortgages. HELOCs generally have an initial draw period of 10 years, and after the initial draw period ends, the loans generally convert to 15- or 20-year amortizing loans. We no longer originate home equity loans or reverse mortgages.

At September 30, 2023, 83 percent of the home equity portfolio was in *Consumer Banking*, seven percent was in *All Other* and the remainder of the portfolio was primarily in *GWIM*. Outstanding balances in the home equity portfolio decreased \$1.1 billion during the nine months ended September 30, 2023 primarily due to paydowns outpacing draws on existing lines and

new originations. Of the total home equity portfolio at September 30, 2023 and December 31, 2022, \$10.2 billion and \$11.1 billion, or 40 percent and 42 percent, were in first-lien positions. At September 30, 2023, 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 \$4.4 billion, or 17 percent, of our total home equity portfolio.

Unused HELOCs totaled \$45.0 billion and \$42.4 billion at September 30, 2023 and December 31, 2022. The HELOC utilization rate was 35 percent and 38 percent at September 30, 2023 and December 31, 2022.

Table 21 presents certain home equity portfolio key credit statistics.

Table 21 Home Equity - Key Credit Statistics (1)

(Dollars in millions)	Se	ptember 30 2023	De	cember 31 2022
Outstandings	\$	25,492	\$	26,563
Accruing past due 30 days or more		94		96
Nonperforming loans (2)		479		510
Percent of portfolio				
Refreshed CLTV greater than 90 but less than or equal to 100		—%		— %
Refreshed CLTV greater than 100		_		_
Refreshed FICO below 620		3		2

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

Nonperforming outstanding balances in the home equity portfolio decreased \$31 million to \$479 million at September 30, 2023, primarily driven by returns to performing status and paydowns outpacing new additions. Of the nonperforming home equity loans at September 30, 2023, \$273 million, or 57 percent, were current on contractual payments. In addition, \$118 million, or 25 percent, 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 remained relatively unchanged during the nine months ended September 30, 2023.

Of the \$25.5 billion in total home equity portfolio outstandings at September 30, 2023, as shown in Table 21, 11 percent require interest-only payments. The outstanding balance of HELOCs that had reached the end of their draw period and entered the amortization period was \$4.3 billion at

September 30, 2023. 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, 2023, \$45 million, or one percent, of outstanding HELOCs that had entered the amortization period were accruing past due 30 days or more. In addition, at September 30, 2023, \$310 million, or seven percent, were nonperforming.

For our interest-only HELOC portfolio, 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; however, we can infer some of this information through a review of our HELOC portfolio that we service and is still in its revolving period. During the three months ended September 30, 2023, 29 percent of these customers with an outstanding balance did not pay any principal on their HELOCs.

⁽²⁾ Includes loans that are contractually current that have not yet demonstrated a sustained period of payment performance following a modification.

Table 22 presents outstandings, nonperforming balances and net recoveries 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 12 percent of the outstanding home equity portfolio at both September 30, 2023

and December 31, 2022. The Los Angeles-Long Beach-Santa Ana MSA within California made up 10 percent and 11 percent of the outstanding home equity portfolio at September 30, 2023 and December 31, 2022.

Table 22 Home Equity State Concentrations

		Outstan	dings	(1)		Nonperfo	rming	5 ⁽¹⁾	Net Charge-Offs										
	Sept	ember 30	Dec	cember 31	September 30		December 31			Three Mon Septem				Nine Months Ended September 30					
(Dollars in millions)		2023		2022		2023		2022		2023		2022		2023		2022			
California	\$	6,948	\$	7,406	\$	116	\$	119	\$	(3)	\$	(4)	\$	(5)	\$	(17)			
Florida		2,599		2,743		57		63		(3)		(5)		(8)		(18)			
New Jersey		1,898		2,047		48		53		_		(1)		(3)		(1)			
New York		1,637		1,806		75		80		(2)		(1)		(6)		(4)			
Texas		1,358		1,284		15		14		_		_		_		_			
Other		11,052		11,277		168		181		(6)		(7)		(20)		(32)			
Total home equity loan portfolio	\$	25,492	\$	26,563	\$	479	\$	510	\$	(14)	\$	(18)	\$	(42)	\$	(72)			

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

Credit Card

At September 30, 2023, 97 percent of the credit card portfolio was managed in *Consumer Banking* with the remainder in *GWIM*. Outstandings in the credit card portfolio increased \$6.3 billion during the nine months ended September 30, 2023 to \$99.7 billion as purchase volume and card transfers more than offset payments. Net charge-offs increased \$345 million to \$673 million and \$836 million to \$1.8 billion during the three and nine months ended September 30, 2023 compared to the same periods in 2022, primarily due to late-stage delinquent

credit card loans that were charged off. Credit card loans 30 days or more past due and still accruing interest increased \$592 million, and 90 days or more past due and still accruing interest increased \$299 million at September 30, 2023.

Unused lines of credit for credit card increased to \$391.3 billion at September 30, 2023 from \$370.1 billion at December 31, 2022.

Table 23 presents certain state concentrations for the credit card portfolio.

Table 23 Credit Card State Concentrations

		Outsta	nding	s		Accruing 90 Days			Net Charge-offs										
	Sep	tember 30	Dec	cember 31	Se	ptember 30	D€	ecember 31		Three Mor Septen				Nine Mon Septen					
(Dollars in millions)		2023		2022		2023		2022		2023		2022		2023		2022			
California	\$	16,418	\$	15,363	\$	178	\$	126	\$	120	\$	58	\$	317	\$	164			
Florida		10,205		9,512		139		100		89		44		238		130			
Texas		8,767		8,125		104		72		64		30		169		87			
New York		5,702		5,381		72		56		52		25		142		71			
Washington		5,217		4,844		33		21		21		9		53		25			
Other		53,378		50,196		490		342		327		162		865		471			
Total credit card portfolio	\$	99,687	\$	93,421	\$	1,016	\$	717	\$	673	\$	328	\$	1,784	\$	948			

Direct/Indirect Consumer

At September 30, 2023, 52 percent of the direct/indirect portfolio was included in *Consumer Banking* (consumer auto and recreational vehicle lending) and 48 percent was included in *GWIM* (principally securities-based lending loans). Outstandings

in the direct/indirect portfolio decreased \$2.2 billion during the nine months ended September 30, 2023 to \$104.1 billion driven by declines in securities-based lending stemming from higher paydown activity due to higher interest rates, partially offset by growth in our auto portfolio.

Table 24 Direct/Indirect State Concentrations

	Outstandings								Net Charge-offs									
	Sep	otember 30	De	cember 31	Se	ptember 30	De	ecember 31		Three Mo Septer				Nine Mon Septen				
(Dollars in millions)		2023		2022		2023		2022		2023		2022		2023		2022		
California	\$	15,193	\$	15,516	\$	23	\$	12	\$	5	\$	1	\$	11	\$	4		
Florida		13,606		13,783		15		10		3		2		6		2		
Texas		9,743		9,837		13		9		2		2		5		3		
New York		7,491		7,891		9		5		2		1		4		2		
New Jersey		4,341		4,456		4		3		1		1		2		1		
Other		53,685		54,753		64		38		12		2		15		5		
Total direct/indirect loan																		
portfolio	\$	104,059	\$	106,236	\$	128	\$	77	\$	25	\$	9	\$	43	\$	17		

Other Consumer

Other consumer primarily consists of deposit overdraft balances. Net charge-offs increased \$29 million to \$387 million during the nine months ended September 30, 2023 compared to the same period in 2022, primarily driven by higher overdraft losses due to industry-wide increases in check fraud activity.

Nonperforming Consumer Loans, Leases and Foreclosed Properties Activity

Table 25 presents nonperforming consumer loans, leases and foreclosed properties activity for the three and nine months ended September 30, 2023 and 2022. Nonperforming

consumer loans of \$2.8 billion remained relatively unchanged during the nine months ended September 30, 2023.

At September 30, 2023, \$502 million, or 18 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, 2023, \$1.6 billion, or 59 percent, of nonperforming consumer loans were current and classified as nonperforming loans in accordance with applicable policies.

Foreclosed properties decreased \$9 million during the nine months ended September 30, 2023 to \$112 million.

Table 25 Nonperforming Consumer Loans, Leases and Foreclosed Properties Activity

	Three Mor Septen		Nine Mont Septem	
(Dollars in millions)	2023	2022	2023	2022
Nonperforming loans and leases, beginning of period	\$ 2,729	\$ 2,866	\$ 2,754	\$ 2,989
Additions	297	236	808	1,245
Reductions:				
Paydowns and payoffs	(117)	(124)	(351)	(446)
Sales	(2)	(1)	(6)	(401)
Returns to performing status ⁽¹⁾	(91)	(193)	(353)	(552)
Charge-offs	(13)	(12)	(38)	(50)
Transfers to foreclosed properties	(11)	(12)	(22)	(25)
Total net additions/(reductions) to nonperforming loans and leases	63	(106)	38	(229)
Total nonperforming loans and leases, September 30	2,792	2,760	2,792	2,760
Foreclosed properties, September 30	112	125	112	125
Nonperforming consumer loans, leases and foreclosed properties, September 30 (2)	\$ 2,904	\$ 2,885	\$ 2,904	\$ 2,885
Nonperforming consumer loans and leases as a percentage of outstanding consumer loans and				
leases (3)	0.61 %	0.61 %		
Nonperforming consumer loans, leases and foreclosed properties as a percentage of outstanding				
consumer loans, leases and foreclosed properties (3)	0.63	0.64		

⁽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.

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 30, 32 and 35 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 Table 32 and Commercial Portfolio Credit Risk Management – Industry Concentrations on page 39.

For more information on our accounting policies regarding delinquencies, nonperforming status, net charge-offs and loan modifications for the commercial portfolio, see *Note 1 – Summary of Significant Accounting Principles* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K and *Note 5 – Outstanding Loans and Leases and Allowance for Credit Losses* to the Consolidated Financial Statements.

⁽²⁾ Includes repossessed non-real estate assets of \$19 million for both the three and nine months ended September 30, 2023 and \$0 million for both the three and nine months ended September 30, 2022.

Outstanding consumer loans and leases exclude loans accounted for under the fair value option.

Commercial Credit Portfolio

Outstanding commercial loans and leases increased \$1.0 billion during the nine months ended September 30, 2023 due to growth in commercial real estate, primarily in *Global Banking*, and U.S. small business commercial. During the nine months ended September 30, 2023, commercial credit quality deteriorated as nonperforming commercial loans and reservable criticized utilized exposure increased primarily driven by the commercial real estate office property type; however, the commercial net charge-off ratio of 0.10 percent for the nine months ended September 30, 2023 remained low.

With the exception of the office property type, which is further discussed in the Commercial Real Estate section herein, credit quality of commercial real estate borrowers has remained relatively stable since December 31, 2022; however, we are closely monitoring borrower performance in the increased rate environment and emerging trends. Many commercial real estate markets are still experiencing disruptions in demand, supply chain challenges, tenant difficulties and challenging capital markets. Recent demand for office space has been stagnant, and future demand for office space continues to be uncertain as companies evaluate space needs with employment models that utilize a mix of remote and conventional office use.

The commercial allowance for loan and lease losses decreased \$325 million during the nine months ended September 30, 2023 to \$5.1 billion, primarily driven by certain improved macroeconomic conditions. For more information, see Allowance for Credit Losses on page 42.

Total commercial utilized credit exposure decreased \$4.0 billion during the nine months ended September 30, 2023 to \$700.9 billion primarily driven by lower standby letters of credit (SBLCs) and financial guarantees and debt securities and other investments. The utilization rate for loans and leases, SBLCs and financial guarantees, and commercial letters of credit, in the aggregate, was 55 percent and 56 percent at September 30, 2023 and December 31, 2022.

Table 26 presents commercial credit exposure by type for utilized, unfunded and total binding committed credit exposure. Commercial utilized credit exposure includes SBLCs and financial guarantees and commercial letters of credit that have been issued and for which we are legally bound to advance funds under prescribed conditions during a specified time period, and excludes exposure related to trading account assets. Although funds have not yet been advanced, these exposure types are considered utilized for credit risk management purposes.

Table 26 Commercial Credit Exposure by Type

		Commercia	ial Utilized ⁽¹⁾			Commercial U	ded ^(2, 3, 4)	Total Commercial Committed				
	Sep	tember 30	De	cember 31	September 30		De	cember 31	Se	ptember 30	D	ecember 31
(Dollars in millions)		2023		2022		2023	2022			2023		2022
Loans and leases	\$	590,370	\$	589,362	\$	507,139	\$	487,772	\$	1,097,509	\$	1,077,134
Derivative assets (5)		47,464		48,642		_		_		47,464		48,642
Standby letters of credit and financial guarantees		31,601		33,376		1,833		1,266		33,434		34,642
Debt securities and other investments		17,922		20,195		3,705		2,551		21,627		22,746
Loans held-for-sale		6,377		6,112		2,332		3,729		8,709		9,841
Operating leases		5,368		5,509		_		_		5,368		5,509
Commercial letters of credit		947		973		254		28		1,201		1,001
Other		856		698	_		_		- 856		856	
Total	\$	700,905	\$	704,867	\$	515,263	\$	495,346	\$	1,216,168	\$	1,200,213

⁽¹⁾ Commercial utilized exposure includes loans of \$4.0 billion and \$5.4 billion accounted for under the fair value option at September 30, 2023 and December 31, 2022.

Nonperforming commercial loans increased \$987 million during the nine months ended September 30, 2023 primarily in commercial real estate, partially offset by non-U.S. commercial. Table 27 presents our commercial loans and leases portfolio and related credit quality information at September 30, 2023 and December 31, 2022.

⁽²⁾ Commercial unfunded exposure includes commitments accounted for under the fair value option with a notional amount of \$1.8 billion and \$3.0 billion at September 30, 2023 and December 31, 2022.

⁽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 \$10.6 billion and \$10.4 billion at September 30, 2023 and December 31, 2022.

⁽⁵⁾ Derivative assets are carried at fair value, reflect the effects of legally enforceable master netting agreements and have been reduced by cash collateral of \$32.9 billion and \$33.8 billion at September 30, 2023 and December 31, 2022. Not reflected in utilized and committed exposure is additional non-cash derivative collateral held of \$53.9 billion and \$51.6 billion at September 30, 2023 and December 31, 2022, which consists primarily of other marketable securities.

Table 27 Commercial Credit Quality

									Accruing	Past D	ue
	Outsta	ndin	gs		Nonper	formi	ng		90 Days	or Mo	re
Sep	tember 30	De	cember 31	Se	September 30		cember 31	Sep	tember 30	Dece	ember 31
	2023		2022		2023		2022		2023		2022
\$	356,330	\$	358,481	\$	561	\$	553	\$	85	\$	190
	123,713		124,479		102		212		4		25
	480,043		482,960		663		765		89		215
	73,193		69,766		1,343		271		6		46
	13,904		13,644		18		4		5		8
	567,140		566,370		2,024		1,040		100		269
	19,233		17,560		17		14		185		355
\$	586,373	\$	583,930	\$	2,041	\$	1,054	\$	285	\$	624
·	3,997	·	5,432							·	
\$	590,370	\$	589,362								
	\$	\$ 356,330 123,713 480,043 73,193 13,904 567,140 19,233 \$ 586,373 3,997	\$ 356,330 \$ 123,713 480,043 73,193 13,904 567,140 19,233 \$ 586,373 \$ 3,997	2023 2022 \$ 356,330 \$ 358,481 123,713 124,479 480,043 482,960 73,193 69,766 13,904 13,644 567,140 566,370 19,233 17,560 \$ 586,373 \$ 583,930 3,997 5,432	September 30 December 31 Serial 2023 2022 \$ 356,330 \$ 358,481 \$ 123,713 123,713 124,479 480,043 482,960 73,193 69,766 13,904 13,644 567,140 566,370 19,233 17,560 \$ 586,373 \$ 583,930 \$ 3,997 5,432	September 30 December 31 September 30 2023 2022 2023 \$ 356,330 \$ 358,481 \$ 561 123,713 124,479 102 480,043 482,960 663 73,193 69,766 1,343 13,904 13,644 18 567,140 566,370 2,024 19,233 17,560 17 \$ 586,373 \$ 583,930 \$ 2,041 3,997 5,432	September 30 December 31 September 30 December 30 2023 2022 2023 \$ 356,330 \$ 358,481 \$ 561 \$ 123,713 124,479 102 480,043 482,960 663 73,193 69,766 1,343 13,904 13,644 18 567,140 566,370 2,024 19,233 17,560 17 \$ 586,373 \$ 583,930 \$ 2,041 \$ 3,997 5,432	September 30 2023 December 31 2022 September 30 2023 December 31 2022 \$ 356,330 \$ 358,481 \$ 561 \$ 553 123,713 \$ 123,713 \$ 124,479 \$ 102 \$ 212 \$ 480,043 \$ 482,960 \$ 663 \$ 765 \$ 73,193 \$ 69,766 \$ 1,343 \$ 271 \$ 13,904 \$ 13,644 \$ 18 \$ 4 \$ 567,140 \$ 566,370 \$ 2,024 \$ 1,040 \$ 19,233 \$ 17,560 \$ 17 \$ 14 \$ 586,373 \$ 583,930 \$ 2,041 \$ 1,054 \$ 3,997 \$ 5,432	September 30 December 31 September 30 December 31 September 30 December 31 September 30 \$ 356,330 \$ 358,481 \$ 561 \$ 553 \$ \$ 123,713 \$ 124,479 \$ 102 \$ 212 \$ 480,043 \$ 482,960 \$ 663 \$ 765 \$ 73,193 \$ 69,766 \$ 1,343 \$ 271 \$ 13,904 \$ 13,644 \$ 18 \$ 4 \$ 567,140 \$ 566,370 \$ 2,024 \$ 1,040 \$ 19,233 \$ 17,560 \$ 17 \$ 14 \$ 586,373 \$ 583,930 \$ 2,041 \$ 1,054 \$ \$ 3,997 \$ 5,432 \$ 3,932 \$ 3,934<	Outstardings Nonper/rming 90 Days September 30 2023 December 31 2023 September 30 2023 September 30 2023 September 30 2023 \$ 356,330 \$ 358,481 \$ 561 \$ 553 \$ 85 123,713 124,479 102 212 4 480,043 482,960 663 765 89 73,193 69,766 1,343 271 6 13,904 13,644 18 4 5 567,140 566,370 2,024 1,040 100 19,233 17,560 17 14 185 \$ 586,373 \$ 583,930 \$ 2,041 \$ 1,054 \$ 285 3,997 5,432 \$ 2,041 \$ 1,054 \$ 285	Outstandings Nonperforming 90 Days Mode September 30 December 31 September 30 September 30 September 30 September 30 September 31 September 30 September 31 September 31 September 30 September 31 September 30 September 31 September 30 September 30 S

⁽¹⁾ Includes card-related products

Table 28 presents net charge-offs and related ratios for our commercial loans and leases for the three and nine months ended September 30, 2023 and 2022.

Table 28 Commercial Net Charge-offs and Related Ratios

				Net C	harg	e-offs		Net Charge-off Ratios (1)							
	Three Months Ended September 30					Nine Mon Septen	 	Three Month Septemb		Nine Months Ended September 30					
(Dollars in millions)	2	2023		2022	2023	2022	2023	2022	2023	2022					
Commercial and industrial:															
U.S. commercial	\$	5	\$	23	\$	57	\$ 24	0.01 %	0.03%	0.02 %	0.01%				
Non-U.S. commercial		(2)		(6)		18	(10)	(0.01)	(0.02)	0.02	(0.01)				
Total commercial and industrial		3		17		75	14	_	0.01	0.02	_				
Commercial real estate		39		13		130	32	0.21	0.08	0.24	0.07				
Commercial lease financing		3		(1)		3	3	0.08	(0.05)	0.02	0.03				
		45		29		208	49	0.03	0.02	0.05	0.01				
U.S. small business commercial		82		32		222	110	1.74	0.72	1.62	0.82				
Total commercial	\$	127	\$	61	\$	430	\$ 159	0.09	0.04	0.10	0.04				

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

Table 29 presents commercial reservable criticized utilized exposure by loan type. Criticized exposure corresponds to the Special Mention, Substandard and Doubtful asset categories as defined by regulatory authorities. Total commercial reservable criticized utilized exposure increased \$4.4 billion during the nine

months ended September 30, 2023 driven by the commercial real estate office property type and U.S. commercial, partially offset by non-U.S. commercial. At both September 30, 2023 and December 31, 2022, 88 percent of commercial reservable criticized utilized exposure was secured.

Table 29 Commercial Reservable Criticized Utilized Exposure (1, 2)

(Dollars in millions)		December 31, 2022			
Commercial and industrial:					
U.S. commercial	\$	12,738	3.33 %	\$ 10,724	2.78%
Non-U.S. commercial		2,067	1.60	2,665	2.04
Total commercial and industrial		14,805	2.89	13,389	2.59
Commercial real estate		8,164	10.95	5,201	7.30
Commercial lease financing		201	1.44	240	1.76
		23,170	3.86	18,830	3.13
U.S. small business commercial		552	2.87	444	2.53
Total commercial reservable criticized utilized exposure	\$	23,722	3.83	\$ 19,274	3.12

⁽¹⁾ Total commercial reservable criticized utilized exposure includes loans and leases of \$22.8 billion and \$18.5 billion and commercial letters of credit of \$920 million and \$817 million at September 30, 2023 and December 31, 2022.

⁽²⁾ Commercial loans accounted for under the fair value option includes U.S. commercial of \$2.5 billion and \$2.9 billion and non-U.S. commercial of \$1.5 billion and \$2.5 billion at September 30, 2023 and December 31, 2022. For more information on the fair value option, see Note 15 - Fair Value Option to the Consolidated Financial Statements.

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

Commercial and Industrial

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

U.S. Commercial

At September 30, 2023, 62 percent of the U.S. commercial loan portfolio, excluding small business, was managed in *Global Banking*, 22 percent in *Global Markets*, 14 percent in *GWIM* (loans that provide financing for asset purchases, business investments and other liquidity needs for high net worth clients) and the remainder primarily in *Consumer Banking*. U.S. commercial loans decreased \$2.2 billion, or one percent, during the nine months ended September 30, 2023 primarily driven by *Global Banking*. Reservable criticized utilized exposure increased \$2.0 billion, or 19 percent, driven by increases across a broad range of industries.

Non-U.S. Commercial

At September 30, 2023, 63 percent of the non-U.S. commercial loan portfolio was managed in *Global Banking*, 36 percent in *Global Markets* and the remainder in *GWIM*. Non-U.S. commercial loans decreased \$766 million, or one percent, during the nine months ended September 30, 2023 primarily driven by *Global Banking*. Reservable criticized utilized exposure decreased \$598 million, or 22 percent, due to upgrades and sales of Russian exposure. For information on the non-U.S. commercial portfolio, see Non-U.S. Portfolio on page 41.

Commercial Real Estate

Commercial real estate primarily includes commercial loans secured by non-owner-occupied real estate and is dependent on the sale or lease of the real estate as the primary source of repayment. Outstanding loans increased \$3.4 billion, or five percent, during the nine months ended September 30, 2023 to

\$73.2 billion with increases across multiple property types. The commercial real estate portfolio is primarily managed in *Global Banking* and consists of loans made primarily to public and private developers, and commercial real estate firms. The portfolio remains diversified across property types and geographic regions. California represented the largest state concentration at 20 percent and 19 percent of commercial real estate at September 30, 2023 and December 31, 2022.

Reservable criticized utilized exposure increased \$3.0 billion, or 57 percent, during the nine months ended September 30, 2023, primarily driven by office loans. Office loans represented the largest property type concentration at 25 percent of the commercial real estate portfolio at September 30, 2023, but only represented approximately two percent of total loans for the Corporation. This property type is roughly 75 percent Class A and has origination loan-to-value of approximately 55 percent. Reservable criticized exposure for the office property type was \$5.1 billion at September 30, 2023, and approximately \$8.7 billion of office loans are scheduled to mature by the end of 2024. Although we have seen collateral value declines in this property type, the majority of these loans remain adequately secured as of September 30, 2023.

For the three and nine months ended September 30, 2023 and 2022, we continued to see low default rates. We use a number of proactive risk mitigation initiatives to reduce adversely rated exposure in the commercial real estate portfolio, including transfers of deteriorating exposures for 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.

Table 30 presents outstanding commercial real estate loans by geographic region, based on the geographic location of the collateral, and by property type.

Table 30 Outstanding Commercial Real Estate Loans

(Dollars in millions)	September 30 2023	2022
By Geographic Region		
Northeast	\$ 15,964	\$ 15,601
California	14,387	13,360
Southwest	9,401	8,723
Southeast	8,336	7,713
Florida	5,119	5,374
Midwest	3,445	3,419
Illinois	3,425	3,327
Midsouth	2,719	2,716
Northwest	2,030	1,959
Non-U.S.	5,933	5,518
Other	2,434	2,056
Total outstanding commercial real estate loans	\$ 73,193	\$ 69,766
By Property Type		
Non-residential		
Office	\$ 18,122	\$ 18,230
Industrial / Warehouse	14,430	13,775
Multi-family rental	11,232	10,412
Shopping centers / Retail	5,806	5,830
Hotel / Motels	5,569	5,696
Multi-use	2,762	2,403
Other	14,115	12,241
Total non-residential	72,036	68,587
Residential	1,157	1,179
Total outstanding commercial real estate loans	\$ 73,193	\$ 69,766

U.S. Small Business Commercial

The U.S. small business commercial loan portfolio is comprised of small business card loans and small business loans primarily managed in Consumer Banking, and included \$415 million and \$1.0 billion of PPP loans outstanding at September 30, 2023 and December 31, 2022. PPP loans decreased \$593 million during the nine months ended September 30, 2023 primarily due to repayment of the loans by the Small Business Administration (SBA) under the terms of the program. Excluding PPP, credit card-related products were 55 percent and 53 percent of the U.S. small business commercial portfolio at September 30, 2023 and December 31, 2022 and represented 100 percent and 99 percent of the net charge-offs for the three and nine months ended September 30, 2023 compared to 100 percent for both the three and nine months ended September 30, 2022. The decrease of \$170 million in accruing past due 90 days or more for the nine months ended September 30, 2023 was driven by the repayment of PPP loans, which are fully guaranteed by the SBA.

Nonperforming Commercial Loans, Leases and Foreclosed Properties Activity

Table 31 presents the nonperforming commercial loans, leases and foreclosed properties activity during the three and nine months ended September 30, 2023 and 2022. Nonperforming loans do not include loans accounted for under the fair value option. During the nine months ended September 30, 2023, nonperforming commercial loans and leases increased \$987 million to \$2.0 billion. At September 30, 2023, 99 percent of commercial nonperforming loans, leases and foreclosed properties were secured, and 63 percent were contractually current. Commercial nonperforming loans were carried at 89 percent of their unpaid principal balance, as the carrying value of these loans has been reduced to the estimated collateral value less costs to sell.

Table 31 Nonperforming Commercial Loans, Leases and Foreclosed Properties Activity (1, 2)

	Three Mo Septer			onths Ended ember 30		
(Dollars in millions)	2023	2022	2023		2022	
Nonperforming loans and leases, beginning of period	\$ 1,397	\$ 1,298	\$ 1,054	\$	1,578	
Additions	875	307	1,778		811	
Reductions:						
Paydowns	(153)	(180)	(396)		(681)	
Sales	_	(12)	(3)		(53)	
Returns to performing status (3)	(2)	(148)	(61)		(299)	
Charge-offs	(67)	(42)	(242)		(94)	
Transfers to foreclosed properties	_	_	(23)		_	
Transfers to loans held-for-sale	(9)	_	(66)		(39)	
Total net additions / (reductions) to nonperforming loans and leases	644	(75)	987		(355)	
Total nonperforming loans and leases, September 30	2,041	1,223	2,041		1,223	
Foreclosed properties, September 30	48	48	48		48	
Nonperforming commercial loans, leases and foreclosed properties, September 30	\$ 2,089	\$ 1,271	\$ 2,089	\$	1,271	
Nonperforming commercial loans and leases as a percentage of outstanding commercial loans and leases ⁽⁴⁾	0.35 %	0.21 %				
Nonperforming commercial loans, leases and foreclosed properties as a percentage of outstanding commercial loans, leases and foreclosed properties (4)	0.36	0.22				

⁽¹⁾ Balances do not include nonperforming loans held-for-sale of \$173 million and \$222 million at September 30, 2023 and 2022.

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

Industry Concentrations

Table 32 presents commercial committed and utilized credit exposure by industry. For information on net notional credit protection purchased to hedge funded and unfunded exposures for which we elected the fair value option, as well as certain other credit exposures, see Commercial Portfolio Credit Risk Management – Risk Mitigation.

Commercial credit exposure is diversified across a broad range of industries. Total commercial committed exposure increased \$16.0 billion during the nine months ended September 30, 2023 to \$1.2 trillion. The increase in commercial committed exposure was concentrated in Asset managers and funds, Capital goods, and Retailing.

For information on industry limits, see Commercial Portfolio Credit Risk Management – Industry Concentrations in the MD&A of the Corporation's 2022 Annual Report on Form 10-K.

Asset managers and funds, our largest industry concentration with committed exposure of \$173.5 billion, increased \$8.4 billion, primarily driven by exposure to the Capital markets industry group during the nine months ended September 30, 2023.

Real estate, our second largest industry concentration with committed exposure of \$99.8 billion remained relatively unchanged during the nine months ended September 30, 2023. For more information on the commercial real estate and related portfolios, see Commercial Portfolio Credit Risk Management – Commercial Real Estate on page 38.

Capital goods, our third largest industry concentration with committed exposure of \$93.3 billion, increased \$6.0 billion, or seven percent, during the nine months ended September 30, 2023. The increase in committed exposure occurred primarily as a result of increases in Trading companies and distributors and Machinery, partially offset by a decrease in Industrial conglomerates.

There is uncertainty in the U.S. and global economies due to various macroeconomic challenges including geopolitical, inflationary pressures and elevated interest rates, and a number of industries may continue to be adversely impacted due to these conditions. We continue to monitor all industries, particularly higher risk industries that are experiencing or could experience a more significant impact to their financial condition.

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

⁽³⁾ Commercial loans and leases 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, when the loan otherwise becomes well-secured and is in the process of collection, or when a modified loan demonstrates a sustained period of payment performance.

Table 32 Commercial Credit Exposure by Industry (1)

		Comn Util	nercial ized	I		Total Cor Comm		
	Sep	tember 30	De	cember 31	Se	ptember 30	De	ecember 31
(Dollars in millions)		2023		2022		2023		2022
Asset managers and funds	\$	106,525	\$	106,842	\$	173,531	\$	165,087
Real estate (3)		73,318		72,180		99,840		99,722
Capital goods		48,858		45,580		93,327		87,314
Finance companies		56,733		55,248		81,968		79,546
Healthcare equipment and services		34,986		33,554		61,151		58,761
Retailing		26,261		24,785		57,664		53,714
Materials		25,132		26,304		55,496		55,589
Food, beverage and tobacco		22,609		23,232		49,678		47,486
Consumer services		27,735		26,980		49,395		47,372
Government and public education		32,058		34,861		46,602		48,134
Individuals and trusts		32,297		34,897		43,323		45,572
Commercial services and supplies		24,089		23,628		42,992		41,596
Utilities		17,806		20,292		38,220		40,164
Transportation		24,004		22,273		36,607		33,858
Energy		13,855		15,132		36,312		36,043
Global commercial banks		27,544		27,217		30,313		29,293
Technology hardware and equipment		10,796		11,441		29,812		29,825
Media		14,427		14,781		25,817		28,216
Software and services		10,160		12,961		24,839		25,633
Insurance		11,357		10,224		21,811		19,444
Vehicle dealers		14,359		12,909		21,334		20,638
Consumer durables and apparel		9,437		10,009		20,462		21,389
Pharmaceuticals and biotechnology		7,294		7,547		20,244		26,208
Telecommunication services		9,276		9,679		17,005		17,349
Automobiles and components		7,207		8,774		15,447		16,911
Food and staples retailing		7,973		7,157		13,698		11,908
Financial markets infrastructure (clearinghouses)		2,409		3,913		4,762		8,752
Religious and social organizations		2,400		2,467		4,518		4,689
Total commercial credit exposure by industry	\$	700,905	\$	704,867	\$	1,216,168	\$	1,200,213

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

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, 2023 and December 31, 2022, 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 \$8.9 billion and \$9.0 billion. We recorded net losses of \$23 million and \$134 million for the three and nine months ended September 30, 2023 compared to net losses of \$56 million and \$66 million for the three and nine months ended September 30, 2022. The gains and losses on these instruments were largely 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 38. For more information, see Trading Risk Management on page 44.

Tables 33 and 34 present the maturity profiles and the credit exposure debt ratings of the net credit default protection portfolio at September 30, 2023 and December 31, 2022.

Table 33 Net Credit Default Protection by Maturity

	September 30 2023	December 31 2022
Less than or equal to one year	52 %	14 %
Greater than one year and less than or equal to five years	47	85
Greater than five years	1	1
Total net credit default protection	100 %	100 %

Table 34 Net Credit Default Protection by Credit Exposure Debt Rating

	No	Net otional ⁽¹⁾	Percent of Total	No	Net otional ⁽¹⁾	Percent of Total
(Dollars in millions)	- ;	September	30, 2023		December	31, 2022
Ratings (2, 3)						
AAA	\$	(479)	5.4 %	\$	(379)	4.0 %
AA		(865)	9.7		(867)	10.0
A		(4,222)	47.5		(3,257)	36.0
BBB		(1,921)	21.6		(2,476)	28.0
BB		(736)	8.3		(1,049)	12.0
В		(597)	6.7		(676)	7.0
CCC and below		(73)	0.8		(93)	1.0
NR ⁽⁴⁾		2	_		(182)	2.0
Total net credit						
default protection	\$	(8,891)	100.0 %	\$	(8,979)	100.0 %

⁽¹⁾ Represents net credit default protection purchased.

⁽²⁾ Includes the notional amount of unfunded legally binding lending commitments, net of amounts distributed (i.e., syndicated or participated) to other financial institutions. The distributed amounts were \$10.6 billion and \$10.4 billion at September 30, 2023 and December 31, 2022.

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

⁽²⁾ Ratings are refreshed on a quarterly basis

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

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

For more information on credit derivatives and counterparty credit risk valuation adjustments, see *Note 3 – Derivatives* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

Non-U.S. Portfolio

Our non-U.S. credit and trading portfolios are subject to country risk. We define country risk as the risk of loss from unfavorable economic and political conditions, currency fluctuations, social instability and changes in government policies. A risk management framework is in place to measure, monitor and manage non-U.S. risk and exposures. In addition to the direct risk of doing business in a country, we also are exposed to indirect country risks (e.g., related to the collateral received on secured financing transactions or related to client clearing

activities). These indirect exposures are managed in the normal course of business through credit, market and operational risk governance rather than through country risk governance. 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 2022 Annual Report on Form 10-K. For more information on risks related to our non-U.S. portfolio, see the Geopolitical section within Item 1A. Risk Factors of the Corporation's 2022 Annual Report on Form 10-K.

Table 35 presents our 20 largest non-U.S. country exposures at September 30, 2023. These exposures accounted for 89 percent of our total non-U.S. exposure at both September 30, 2023 and December 31, 2022. Net country exposure for these 20 countries decreased \$27.0 billion in 2023 primarily driven by decreases in Germany, Japan and France.

Table 35 Top 20 Non-U.S. Countries Exposure

																ncrease
	_						_			Country				et Country	([Decrease)
		nded Loans	ι	Infunded	0-	Net	S	ecurities/		xposure at		dges and		cposure at	Б-	from
(Dollars in millions)		and Loan guivalents	Co	Loan mmitments		unterparty Exposure	Inv	Other vestments	Sel	ptember 30 2023		dit Default rotection	Sep	otember 30 2023	De	cember 31 2022
United Kingdom	\$	26,274	\$	18,599	\$	7,991	\$	4.606	\$	57,470	\$	(3,037)	\$	54.433	\$	(912)
Germany	φ	21,785	Ψ	9,912	Ψ	1,325	Ψ	2,563	Ψ	35,585	Ψ	(2,224)	Φ	33,361	Ψ	(12,365)
•		12,090		9,912		1,085		3,501		26,301		(416)		25,885		312
Canada		,		,		*		*		,		, ,		,		
France		14,031		7,956		901		1,433		24,321		(2,312)		22,009		(4,584)
Australia		13,915		5,045		721		2,438		22,119		(286)		21,833		1,616
Japan		8,505		1,792		1,432		4,592		16,321		(800)		15,521		(7,566)
Brazil		9,072		1,265		607		3,983		14,927		(55)		14,872		2,372
India		7,017		221		626		3,491		11,355		(43)		11,312		543
Ireland		8,073		1,347		148		240		9,808		(21)		9,787		697
Singapore		4,562		491		214		4,220		9,487		(19)		9,468		(139)
South Korea		6,002		897		619		1,743		9,261		(41)		9,220		94
China		5,040		317		841		3,102		9,300		(238)		9,062		(1,746)
Mexico		4,894		1,635		530		1,477		8,536		(57)		8,479		1,087
Switzerland		4,808		3,328		370		283		8,789		(773)		8,016		(2,672)
Netherlands		2,814		4,394		822		414		8,444		(1,689)		6,755		(2,528)
Hong Kong		4,170		618		382		1,096		6,266		(15)		6,251		(1,020)
Spain		2,779		1,851		155		945		5,730		(386)		5,344		(497)
Italy		3,676		1,371		235		672		5,954		(787)		5,167		(501)
Belgium		1,536		1,513		345		1,021		4,415		(214)		4,201		338
Sweden		1,326		1,810		111		219		3,466		(406)		3,060		456
Total top 20 non-U.S.																
countries exposure	\$	162,369	\$	73,987	\$	19,460	\$	42,039	\$	297,855	\$	(13,819)	\$	284,036	\$	(27,015)

Our largest non-U.S. country exposure at September 30, 2023 was the United Kingdom with net exposure of \$54.4 billion, which represents a decrease of \$912 million from December 31, 2022. The decrease was primarily driven by lower

exposure with financial institutions. Our second largest non-U.S. country exposure was Germany with net exposure of \$33.4 billion at September 30, 2023, a decrease of \$12.4 billion from December 31, 2022. The decrease was primarily driven by lower deposits with the central bank.

Allowance for Credit Losses

The allowance for credit losses increased \$418 million from December 31, 2022 to \$14.6 billion at September 30, 2023, which included a \$921 million reserve increase related to the consumer portfolio and a \$503 million reserve decrease related to the commercial portfolio. The increase in the allowance reflected a reserve build in our consumer portfolio primarily due to credit card loan growth and asset quality, partially offset by a reserve release in our commercial portfolio primarily driven by certain improved macroeconomic conditions. The allowance also

includes the impact of the accounting change to remove the recognition and measurement guidance on troubled debt restructurings, which reduced the allowance for credit losses by \$243 million on January 1, 2023. For more information on this change in accounting guidance, see *Note 1 - Summary of Significant Accounting Principles* to the Consolidated Financial Statements.

Table 36 presents an allocation of the allowance for credit losses by product type at September 30, 2023 and December 31, 2022.

Table 36 Allocation of the Allowance for Credit Losses by Product Type

				Percent of Loans and			Percent of Loans and
	4	Mount	Percent of Total	Leases Outstanding ⁽¹⁾	Amount	Percent of Total	Leases Outstanding (1)
(Dollars in millions)			eptember 30, 20			ecember 31, 202	
Allowance for loan and lease losses			, ,			,	
Residential mortgage	\$	344	2.59 %	0.15 %	\$ 328	2.59 %	0.14 %
Home equity		68	0.51	0.27	92	0.73	0.35
Credit card		6,987	52.59	7.01	6,136	48.38	6.57
Direct/Indirect consumer		671	5.05	0.64	585	4.61	0.55
Other consumer		97	0.73	n/m	96	0.76	n/m
Total consumer		8,167	61.47	1.78	7,237	57.07	1.59
U.S. commercial ⁽²⁾		2,764	20.80	0.74	3,007	23.71	0.80
Non-U.S. commercial		918	6.91	0.74	1,194	9.41	0.96
Commercial real estate		1,393	10.48	1.90	1,192	9.40	1.71
Commercial lease financing		45	0.34	0.33	52	0.41	0.38
Total commercial		5,120	38.53	0.87	5,445	42.93	0.93
Allowance for loan and lease losses		13,287	100.00 %	1.27	12,682	100.00 %	1.22
Reserve for unfunded lending commitments		1,353			1,540		
Allowance for credit losses	\$	14,640			\$ 14,222		

¹⁾ Ratios are calculated as allowance for loan and lease losses as a percentage of loans and leases outstanding excluding loans accounted for under the fair value option.

compared to \$520 million and \$1.5 billion for the same periods in 2022 primarily due to late-stage delinquent credit card loans that were charged off. The provision for credit losses increased \$336 million to \$1.2 billion and \$1.8 billion to \$3.3 billion for the three and nine months ended September 30, 2023 compared to the same periods in 2022. The provision for credit losses for the current-year periods was driven by our consumer portfolio primarily due to credit card loan growth and asset quality, partially offset by certain improved macroeconomic conditions that primarily benefited our commercial portfolio. In addition, provision for credit losses for the three months ended September 30, 2023 benefited from commercial net paydowns.

For the three-month period in the prior year, the provision for

credit losses was primarily driven by loan growth and a

dampened macroeconomic outlook and the nine-month period

was driven by the same factors as well as a reserve build

related to Russian exposure, partially offset by asset quality

improvement and reduced COVID-19 pandemic uncertainties.

Net charge-offs for the three and nine months ended

September 30, 2023 were \$931 million and \$2.6 billion

The provision for credit losses for the consumer portfolio, including unfunded lending commitments, increased \$496 million to \$1.2 billion and \$2.1 billion to \$3.3 billion for the three and nine months ended September 30, 2023 compared to the same periods in 2022. The provision for credit losses for the commercial portfolio, including unfunded lending commitments, decreased \$160 million to \$16 million and decreased \$278 million to \$26 million for the three and nine months ended September 30, 2023 compared to the same periods in 2022.

Table 37 presents a rollforward of the allowance for credit losses, including certain loan and allowance ratios for the three and nine months ended September 30, 2023 and 2022. For more information on the Corporation's credit loss accounting policies and activity related to the allowance for credit losses, see Note 1 – Summary of Significant Accounting Principles to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K and Note 5 – Outstanding Loans and Leases and Allowance for Credit Losses to the Consolidated Financial Statements.

⁽²⁾ Includes allowance for Ioan and lease Iosses for U.S. small business commercial Ioans of \$983 million and \$844 million at September 30, 2023 and December 31, 2022.

Table 37 Allowance for Credit Losses

	Th	ree Months End	led S	September 30	Nine Months Ended September 30						
(Dollars in millions)		2023		2022		2023		2022			
Allowance for loan and lease losses, December 31		n/a		n/a	\$	12,682	\$	12,387			
January 1, 2023 adoption of credit loss standard		n/a		n/a		(243)		n/a			
Allowance for loan and lease losses, beginning of period	\$	12,950	\$	11,973		12,439		12,387			
Loans and leases charged off											
Residential mortgage		(8)		(5)		(26)		(155)			
Home equity		(7)		(8)		(18)		(41)			
Credit card		(814)		(487)		(2,220)		(1,452)			
Direct/Indirect consumer		(57)		(63)		(153)		(184)			
Other consumer		(123)		(146)		(406)		(371)			
Total consumer charge-offs		(1,009)		(709)		(2,823)		(2,203)			
U.S. commercial ⁽¹⁾		(131)		(85)		(371)		(239)			
Non-U.S. commercial		_		(1)		(31)		(3)			
Commercial real estate		(44)		(14)		(139)		(37)			
Commercial lease financing		(3)		` <u> </u>		(3)		(5)			
Total commercial charge-offs		(178)		(100)		(544)		(284)			
Total loans and leases charged off		(1,187)		(809)		(3,367)		(2,487)			
Recoveries of loans and leases previously charged off						, . ,					
Residential mortgage		6		8		21		82			
Home equity		21		26		60		113			
Credit card		141		159		436		504			
Direct/Indirect consumer		32		54		110		167			
Other consumer		5		3		19		13			
Total consumer recoveries		205		250		646		879			
U.S. commercial (2)		44		30		92		105			
Non-U.S. commercial		2		7		13		13			
Commercial real estate		5		1		9		5			
Commercial lease financing		_		1		_		2			
Total commercial recoveries		51		39		114		125			
Total recoveries of loans and leases previously charged off		256		289		760		1,004			
Net charge-offs		(931)		(520)		(2,607)		(1,483)			
Provision for loan and lease losses		1,268		845		3,477		1,394			
Other				4		(22)		, 4			
Allowance for loan and lease losses, September 30		13,287		12,302		13.287		12,302			
Reserve for unfunded lending commitments, beginning of period		1,388		1,461		1,540		1,456			
Provision for unfunded lending commitments		(34)		53		(187)		57			
Other		(1)		1		_		2			
Reserve for unfunded lending commitments, September 30		1,353		1,515		1,353		1,515			
Allowance for credit losses, September 30	\$	14,640	\$	13,817	\$	14,640	\$	13,817			
, , , , , , , , , , , , , , , , , , ,		,		,		,					
Loan and allowance ratios (3):											
Loans and leases outstanding at September 30	\$	1,044,899	\$	1,027,615	\$	1,044,899	\$	1,027,615			
Allowance for loan and lease losses as a percentage of total loans and leases											
outstanding at September 30		1.27 %		1.20 %		1.27 %		1.20 %			
Consumer allowance for loan and lease losses as a percentage of total consumer loans											
and leases outstanding at September 30		1.78		1.53		1.78		1.53			
Commercial allowance for loan and lease losses as a percentage of total commercial		• • •		0.04				0.04			
loans and leases outstanding at September 30		0.87	Φ.	0.94		0.87	Φ.	0.94			
Average loans and leases outstanding	\$	1,041,972	\$	1,029,084	\$	1,040,116	\$	1,003,014			
Annualized net charge-offs as a percentage of average loans and leases outstanding		0.35 %		0.20 %		0.34 %		0.20 %			
Allowance for loan and lease losses as a percentage of total nonperforming loans and leases at September 30		275		309		275		309			
Ratio of the allowance for loan and lease losses at September 30 to annualized net charge-offs		3.60		5.96		3.81		6.20			
Amounts included in allowance for loan and lease losses for loans and leases that are excluded from nonperforming loans and leases at September 30 ⁽⁴⁾	\$	5,330	\$	6,746	\$	5,330	\$	6,746			
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 (4)		165 %		140 %		165 %		140 %			
(1) Includes II S. small business commercial charge offs of \$0.4 million and \$25.4 million for the three and											

⁽¹⁾ Includes U.S. small business commercial charge-offs of \$94 million and \$254 million for the three and nine months ended September 30, 2023 compared to \$43 million and \$150 million for the same periods in 2022.
(2) Includes U.S. small business commercial recoveries of \$12 million and \$32 million for the three and nine months ended September 30, 2023 compared to \$11 million and \$40 million for the same periods in 2022.
(3) Ratios are calculated as allowance for loan and lease losses as a percentage of loans and leases outstanding excluding loans accounted for under the fair value option.
(4) Primarily includes amounts related to credit card and unsecured consumer lending portfolios in *Consumer Banking*.

n/a = not applicable

Market Risk Management

For more information on our market risk management process, see Market Risk Management in the MD&A of the Corporation's 2022 Annual Report on Form 10-K. For more information on market risks, see the Market section within Item 1A. Risk Factors of the Corporation's 2022 Annual Report on Form 10-K.

Market risk is the risk that changes in market conditions may adversely impact the value of assets or liabilities, or otherwise negatively impact earnings. This risk is inherent in the financial instruments associated with our operations, primarily within our *Global Markets* segment. We are also exposed to these risks in other areas of the Corporation (e.g., our ALM activities). In the event of market stress, these risks could have a material impact on our results.

Trading Risk Management

To evaluate risks in our trading activities, we focus on the actual and potential volatility of revenues generated by individual positions as well as portfolios of positions. VaR is a common statistic used to measure market risk. Our primary VaR statistic is equivalent to a 99 percent confidence level, which 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.

Table 38 presents the total market-based portfolio VaR, which is the combination of the total covered positions (and less liquid trading positions) portfolio and the fair value option portfolio. For more information on the market risk VaR for trading activities, see Trading Risk Management in the MD&A of the Corporation's 2022 Annual Report on Form 10-K.

The total market-based portfolio VaR results in Table 38 include market risk to which we are exposed from all business segments, excluding credit valuation adjustment (CVA), DVA and related hedges. The majority of this portfolio is within the *Global Markets* segment.

Table 38 presents period-end, average, high and low daily trading VaR for the three months ended September 30, 2023, June 30, 2023 and September 30, 2022 using a 99 percent confidence level as well as average daily trading VaR for the nine months ended September 30, 2023 and 2022. The amounts disclosed in Table 38 and Table 39 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.

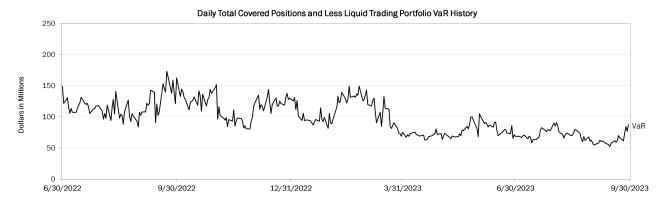
The average of total covered positions and less liquid trading positions portfolio VaR for the three months ended September 30, 2023 compared to the prior quarter remained stable.

Table 38 Market Risk VaR for Trading Activities

									Three	Mont	hs Ended										Nine	Mont	ths En	ided
		Sept	ember	30, 20	23				Ju	ne 30	, 2023				Se	ptember	r 30,	2022			Se	ptem	ber 3	0
(Dollars in millions)	riod ind	Avei	rage	High ⁽	1)	Low (1)		Period End	Ave	rage	High ⁽¹⁾	Lov	v ⁽¹⁾	Period End	A۱	verage	Hig	gh ⁽¹⁾	Low	1)	202 Avera			22 rage
Foreign exchange	\$ 25	\$	25	\$ 3	33	\$ 12	2	\$ 22	\$	29	\$ 42	\$	16	\$ 24	\$	19	\$	32	\$	12	\$	29	\$	18
Interest rate	46		51	8	36	35	5	42		50	74		36	35		34		55	:	25		48		36
Credit	62		49	(62	43	3	50		50	54		47	90		68		95	!	54		61		68
Equity	13		15	2	23	1:	L	24		24	56		13	22		16		23	:	12		19		20
Commodities	10		8	:	10	•	6	8		9	12		7	12		13		18		9		9		13
Portfolio diversification	(90)		(92)	r	ı/a	n/	а	(85)		(98)	n/a		n/a	(102)		(85)		n/a	r	ı/a	(1	L 04)		(88)
Total covered positions portfolio	66		56	-	74	4:	L	61		64	85		53	81		65		95		42		62		67
Impact from less liquid exposures (2)	21		13	r	ı/a	n/	а	8		12	n/a		n/a	82		52		n/a	r	ı/a		22		38
Total covered positions and less liquid																								
trading positions portfolio	87		69	9	91	52	2 _	69		76	105		63	163		117		173		34		84		105
Fair value option loans	16		19	2	21	16	6	19		20	26		15	59		50		60	;	37		27		52
Fair value option hedges	10		11	:	13	9)	12		16	20		12	17		16		18		13		14		17
Fair value option portfolio diversification	(14)		(17)	r	ı/a	n/	а	(19)		(24)	n/a		n/a	(39)		(36)		n/a	r	ı/a		(24)		(35)
Total fair value option portfolio	12		13	2	14	12	2	12		12	14		11	37		30		37	:	23		17		34
Portfolio diversification	(2)		(5)	r	ı/a	n/	а	(6)		(7)	n/a		n/a	(5)		(4)		n/a	r	ı/a		(7)		(13)
Total market-based portfolio	\$ 97	\$	77	10	03	58	3	\$ 75	\$	81	113		66	\$ 195	\$	143		203	1	03	\$	94	\$	126

⁽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 following graph presents the daily covered positions and less liquid trading positions portfolio VaR for the previous five quarters, corresponding to the data in Table 38.



⁽²⁾ Impact is net of diversification effects between the covered positions and less liquid trading positions portfolios.

Additional VaR statistics produced within our single VaR model are provided in Table 39 at the same level of detail as in Table 38. 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 39 presents average trading VaR statistics at 99 percent and 95 percent confidence levels for the three months ended September 30, 2023, June 30, 2023 and September 30, 2022.

Table 39 Average Market Risk VaR for Trading Activities – 99 percent and 95 percent VaR Statistics

	Three Months Ended											
	- !	Septembe	r 30, 20	023	J	une 30	, 2023	3	September	r 30, 2022		
(Dollars in millions)	99 p	ercent	95	percent	99 per	cent	95 percent		99 percent	95 percent		
Foreign exchange	\$	25	\$	16	\$	29	\$	19	\$ 19	\$ 11		
Interest rate		51		28		50		27	34	18		
Credit		49		29		50		29	68	26		
Equity		15		7		24		12	16	8		
Commodities		8		5		9		5	13	7		
Portfolio diversification		(92)		(53)		(98)		(56)	(85)	(43)		
Total covered positions portfolio		56		32		64		36	65	27		
Impact from less liquid exposures		13		6		12		7	52	7		
Total covered positions and less liquid trading positions portfolio		69		38		76		43	117	34		
Fair value option loans		19		11		20		13	50	14		
Fair value option hedges		11		7		16		10	16	10		
Fair value option portfolio diversification		(17)		(11)		(24)		(15)	(36)	(13)		
Total fair value option portfolio		13		7		12		8	30	11		
Portfolio diversification		(5)		(4)		(7)		(6)	(4)	(7)		
Total market-based portfolio	\$	77	\$	41	\$	81	\$	45	\$ 143	\$ 38		

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. For more information on our backtesting process, see Trading Risk Management – Backtesting in the MD&A of the Corporation's 2022 Annual Report on Form 10-K.

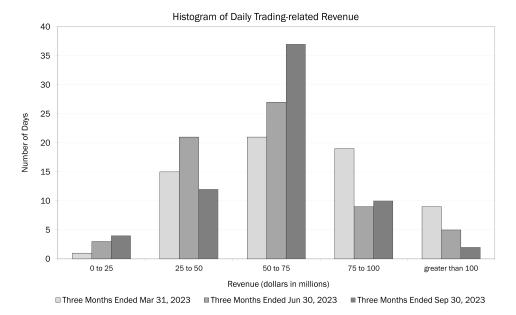
During the three and nine months ended September 30, 2023, there were no days where this subset of trading revenue had losses that exceeded our total covered portfolio VaR, utilizing a one-day holding period.

Total Trading-related Revenue

Total trading-related revenue, excluding brokerage fees, and CVA, DVA and funding valuation adjustment gains (losses), represents the total amount earned from trading positions, including market-based net interest income, which are taken in a diverse range of financial instruments and markets. For more information, see Trading Risk Management – Total Trading-

related Revenue in the MD&A of the Corporation's 2022 Annual Report on Form 10-K.

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, 2023 compared to the three months ended June 30, 2023 and March 31, 2023. During the three months ended September 30, 2023, positive trading-related revenue was recorded for 100 percent of the trading days, of which 94 percent were daily trading gains of over \$25 million. This compares to the three months ended June 30, 2023 where positive trading-related revenue was recorded for 100 percent of the trading days, of which 95 percent were daily trading gains of over \$25 million. During the three months ended March 31, 2023, positive trading-related revenue was recorded for 100 percent of the trading days, of which 98 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 more information, see Trading Risk Management – Trading Portfolio Stress Testing in the MD&A of the Corporation's 2022 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. For more information, see Interest Rate Risk Management for the Banking Book in the MD&A of the Corporation's 2022 Annual Report on Form 10-K.

Table 40 presents the spot and 12-month forward rates used in our baseline forecasts at September 30, 2023 and December 31, 2022.

Table 40 Forward Rates

	September 30, 2023									
	Federal	(1)	10-Year							
	Funds	SOFR (1)	SOFR (1)							
Spot rates	5.50 %	5.31 %	4.27 %							
12-month forward rates	5.14	5.01	4.13							
	De	ecember 31, 2022								
	Federal	Three-month	10-Year							
	Funds	LIBOR	Swap							
Spot rates	4.50 %	4.77 %	3.84 %							
12-month forward rates	4.75	4.78	3.62							

The Corporation uses SOFR in its baseline forecast as one of the primary alternative reference rates used as a result of the cessation of LIBOR in 2023.

Table 41 shows the pretax impact to forecasted net interest income over the next 12 months from September 30, 2023 and December 31, 2022 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. The interest rate scenarios also assume U.S. dollar interest rates are floored at zero.

During the nine months ended September 30, 2023, the overall decrease in asset sensitivity of our balance sheet to higher and lower rate scenarios was primarily due to changes in deposit product mix. We continue to be asset sensitive to a parallel upward move in interest rates with the majority of that impact coming from the short end of the yield curve. Additionally, higher interest rates negatively impact the fair value of our debt securities classified as available for sale and 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 would be reduced over time by offsetting positive impacts to net interest income generated from the banking book activities. For more information on Basel 3, see Capital Management – Regulatory Capital on page 22.

Table 41 Estimated Banking Book Net Interest Income Sensitivity to Curve Changes

(Dollars in millions)	Short Rate (bps)	Long Rate (bps)	September 30 2023	December 31 2022
Parallel Shifts				
+100 bps				
instantaneous shift	+100	+100	\$ 3,057	\$ 3,829
-100 bps				
instantaneous shift	-100	-100	(3,272)	(4,591)
Flatteners				
Short-end				
instantaneous change	+100	_	2,949	3,698
Long-end				
instantaneous change	_	-100	(126)	(157)
Steepeners				
Short-end				
instantaneous change	-100	_	(3,169)	(4,420)
Long-end				
instantaneous change	_	+100	108	131

The sensitivity analysis in Table 41 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 41 assumes no change in deposit portfolio size or mix from the baseline forecast in alternate rate environments. In higher rate scenarios, the increase in net interest income would be impacted by any customer activity resulting in the replacement of low-cost or noninterest-bearing deposits with higher yielding deposits or market-based funding as our benefit in those scenarios would be reduced. Conversely, in lower-rate scenarios, any customer activity that results in the replacement of higher yielding deposits or market-based funding with low-cost or noninterest-bearing deposits would reduce our exposure in those scenarios.

For interest rate scenarios larger than 100 bps shifts, it is expected that the interest rate sensitivity will illustrate nonlinear behaviors as there are numerous estimates and assumptions, which require a high degree of judgment and are often interrelated, that could impact the outcome. Pertaining to the mortgage-backed securities and residential mortgage portfolio, if long-end interest rates were to significantly decrease over the next twelve months, for example over 200 bps, there would generally be an increase in customer prepayment behaviors with an incremental reduction to net interest income, noting that the extent of changes in customer prepayment activity can be impacted by multiple factors and is not necessarily limited to long-end interest rates. Conversely, if longend interest rates were to significantly increase over the next twelve months, for example, over 200 bps, customer prepayments would likely modestly decrease and result in an incremental increase to net interest income. In addition, deposit pricing will have non-linear impacts to larger short-end rate movements. In decreasing interest rate scenarios, and particularly where interest rates have decreased to small amounts, the ability to further reduce rates paid is reduced as customer rates near zero. In higher short-end rate scenarios, deposit pricing will likely increase at a faster rate, leading to incremental interest expense and reducing asset sensitivity. While the impact related to the above assumptions used in the asset sensitivity analysis can provide directional analysis on how net interest income will be impacted in changing environments, the ultimate impact is dependent upon the interrelationship of the assumptions and factors, which vary in different macroeconomic scenarios.

Interest Rate and Foreign Exchange Derivative Contracts

We use interest rate and foreign exchange derivative contracts in our ALM activities to manage our interest rate and foreign exchange risks. Specifically, we use those derivatives to manage both the variability in cash flows and changes in fair value of various assets and liabilities arising from those risks. Our interest rate derivative contracts are generally non-leveraged swaps tied to various benchmark interest rates and foreign exchange basis swaps, options, futures and forwards, and our foreign exchange contracts include cross-currency interest rate swaps, foreign currency futures contracts, foreign currency forward contracts and options.

The derivatives used in our ALM activities can be split into two broad categories: designated accounting hedges and other risk management derivatives. Designated accounting hedges are primarily used to manage our exposure to interest rates as described in the Interest Rate Risk Management for the Banking Book section and are included in the sensitivities presented in Table 41. The Corporation also uses foreign currency derivatives

in accounting hedges to manage substantially all of the foreign exchange risk of our foreign operations. By hedging the foreign exchange risk of our foreign operations, the Corporation's market risk exposure in this area is not significant.

Risk management derivatives are predominantly used to hedge foreign exchange risks related to various foreign currency-denominated assets and liabilities and eliminate substantially all foreign currency exposures in the cash flows of the Corporation's non-trading foreign currency-denominated financial instruments. These foreign exchange derivatives are sensitive to other market risk exposures such as cross-currency basis spreads and interest rate risk. However, as these features are not a significant component of these foreign exchange derivatives, the market risk related to this exposure is not significant. For more information on the accounting for derivatives, see *Note 3 - Derivatives* to the Consolidated Financial Statements.

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.

Changes in interest rates impact the value of interest rate lock commitments (IRLCs) and the related residential first mortgage loans held-for-sale (LHFS), as well as the value of the MSRs. Because the interest rate risks of these hedged items offset, we combine them into one overall hedged item with one combined economic hedge portfolio consisting of derivative contracts and securities. For more information on IRLCs and the related residential mortgage LHFS, see Mortgage Banking Risk Management in the MD&A of the Corporation's 2022 Annual Report on Form 10-K.

There were no significant gains or losses related to the change in fair value of MSRs, IRLCs and LHFS, net of gains and losses on the hedge portfolio, for the three and nine months ended September 30, 2023 and 2022. For more information on MSRs, see *Note 14 – Fair Value Measurements* to the Consolidated Financial Statements.

Climate Risk Management

Climate-related risks are divided into two major categories: (1) risks related to the physical impacts of climate change, driven by extreme weather events such as hurricanes and floods, as well as chronic longer-term shifts such as rising average global temperatures and sea levels, and (2) risks related to the transition to a low-carbon economy, which may entail extensive policy, legal, technology and market changes. These changes and events may have broad impacts on operations, supply chains, distribution networks, customers and markets and are otherwise referred to, respectively, as physical risk and transition risk. These risks may impact both financial and nonfinancial risk types. Physical climate events may lead to increased credit risk by diminishing borrowers' repayment capacity or collateral value, or increased operational risk by impacting the Corporation's facilities, employees, customers or vendors. Climate-related transition changes in policy, technology or the market may amplify credit risk through financial impacts to the Corporation or its customers or counterparties or increase market risk, including through sudden price adjustments. In addition, reputational risk may arise, including our climate-related practices, disclosures commitments.

As climate risk spans all key risk types, we have developed and continue to enhance processes to embed climate risk considerations into our Risk Framework and risk management programs established for each of our seven key types of risk.

We publicly announced our commitment to achieve net zero emissions in our financing activities, operations, and supply chain before 2050 (Net Zero Goal). In connection with our Net Zero Goal, we set certain 2030 targets, including reducing emissions associated with our operations and financing activities, related to auto manufacturing, energy and power generation, and for our supply chain, including that a certain proportion of our global suppliers set their own climate targets (2030 Targets). We disclosed our 2019 and 2020 financed emission and emission intensity metrics for the above referenced sectors in our 2022 Task Force on Climate-related Financial Disclosures (TCFD) Report, with 2019 serving as the baseline for our financed emissions targets.

We plan to disclose the financed emissions for additional portions of our business loan portfolio in our 2023 TCFD Report, which we anticipate publishing later in 2023, and we plan to set financing activity emission reduction targets for other key sectors by April 2024.

Achieving our climate-related goals and targets, including our Net Zero Goal and 2030 Targets, may require technological advances, clearly defined roadmaps for industry sectors, new standards and public policies, including those that improve the cost of capital for the transition to a low-carbon economy and better emissions data reporting, as well as ongoing, strong and active engagement with customers, suppliers, investors, government officials and other stakeholders.

Given the extended period of these and other climate-related goals we have established, our initiatives have not resulted in a significant effect on our results of operations or financial position in the relevant periods presented herein.

For more information on our governance framework and climate risk management process, see the Managing Risk and Climate Risk Management sections in the MD&A of the Corporation's 2022 Annual Report on Form 10-K. For more

information on climate risk, see Item 1A. Risk Factors – Other of the Corporation's 2022 Annual Report on Form 10-K. For more information on climate-related matters and the Corporation's climate-related goals and commitments, including our plans to achieve our Net Zero Goal and 2030 Targets and progress on our sustainable finance goals, see the Corporation's website, including our 2022 TCFD Report and the 2022 Annual Report to shareholders available on the Investor Relations portion of our website. The contents of the Corporation's website, including the 2022 TCFD Report and 2022 Annual Report to shareholders are not incorporated by reference into this Quarterly Report on Form 10-O.

The foregoing discussion and our discussion in the 2022 TCFD Report and Annual Report to shareholders regarding our goals and commitments with respect to climate risk management, including environmental transition considerations, include "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. 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.

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 more information, see Complex Accounting Estimates in the MD&A of the Corporation's 2022 Annual Report on Form 10-K and Note 1 – Summary of Significant Accounting Principles to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

Non-GAAP Reconciliations

Table 42 provides reconciliations of certain non-GAAP financial measures to the most closely related GAAP financial measures.

Table 42 Average and Period-end Supplemental Financial Data and Reconciliations to GAAP Financial Measures (1)

	2023 Quarters 2022 Quarters						Ended 30					
(Dollars in millions)		Third		Second		First	Fourth	Third		2023		2022
Reconciliation of average shareholders' equity to average tangible shareholders' equity and average tangible common shareholders' equity												
Shareholders' equity	\$	284,975	\$	282,425	\$	277,252	\$ 272,629	\$ 271,017	\$	281,579	\$	269,514
Goodwill		(69,021)		(69,022)		(69,022)	(69,022)	(69,022)		(69,022)		(69,022)
Intangible assets (excluding MSRs)		(2,029)		(2,049)		(2,068)	(2,088)	(2,107)		(2,049)		(2,127)
Related deferred tax liabilities		890		895		899	914	920		895		925
Tangible shareholders' equity	\$	214,815	\$	212,249	\$	207,061	\$ 202,433	\$ 200,808	\$	211,403	\$	199,290
Preferred stock		(28,397)		(28,397)		(28,397)	(28,982)	(29,134)		(28,397)		(28,094)
Tangible common shareholders' equity	\$	186,418	\$	183,852	\$	178,664	\$ 173,451	\$ 171,674	\$	183,006	\$	171,196
Reconciliation of period-end shareholders' equity to period-end tangible shareholders' equity and period-end tangible common shareholders' equity												
Shareholders' equity	\$	287,064	\$	283,319	\$	280,196	\$ 273,197	\$ 269,524				
Goodwill		(69,021)		(69,021)		(69,022)	(69,022)	(69,022)				
Intangible assets (excluding MSRs)		(2,016)		(2,036)		(2,055)	(2,075)	(2,094)				
Related deferred tax liabilities		886		890		895	899	915				
Tangible shareholders' equity	\$	216,913	\$	213,152	\$	210,014	\$ 202,999	\$ 199,323				
Preferred stock		(28,397)		(28,397)		(28,397)	(28,397)	(29,134)				
Tangible common shareholders' equity	\$	188,516	\$	184,755	\$	181,617	\$ 174,602	\$ 170,189				
Reconciliation of period-end assets to period-end tangible assets												
Assets	\$	3,153,090	\$	3,123,198	\$	3,194,657	\$ 3,051,375	\$ 3,072,953				
Goodwill		(69,021)		(69,021)		(69,022)	(69,022)	(69,022)				
Intangible assets (excluding MSRs)		(2,016)		(2,036)		(2,055)	(2,075)	(2,094)				
Related deferred tax liabilities		886		890		895	899	915				
Tangible assets	\$	3,082,939	\$	3,053,031	\$	3,124,475	\$ 2,981,177	\$ 3,002,752				

⁽¹⁾ For more information on non-GAAP financial measures and ratios we use in assessing the results of the Corporation, see Supplemental Financial Data on page 7.

Item 3. Quantitative and Qualitative Disclosures about Market Risk

See Market Risk Management on page 44 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, 2023, that have materially affected, or are reasonably likely to materially affect, the Corporation's internal control over financial reporting.

Part I. Financial Information Item 1. Financial Statements

Bank of America Corporation and Subsidiaries

Consolidated Statement of Income

	Thr	ee Months End	ded Se	ptember 30	Nine Months Ended September 30						
(In millions, except per share information)		2023		2022		2023		2022			
Net interest income											
Interest income	\$	33,624	\$	19,621	\$	94,633	\$	47,490			
Interest expense		19,245		5,856		51,648		9,709			
Net interest income		14,379		13,765		42,985		37,781			
Noninterest income											
Fees and commissions		8,135		8,001		23,990		25,477			
Market making and similar activities		3,325		3,068		11,734		9,023			
Other income		(672)		(332)		(2,087)		(1,863)			
Total noninterest income		10,788		10,737		33,637		32,637			
Total revenue, net of interest expense		25,167		24,502		76,622		70,418			
Provision for credit losses		1,234		898		3,290		1,451			
Noninterest expense											
Compensation and benefits		9,551		8,887		28,870		27,286			
Occupancy and equipment		1,795		1,777		5,370		5,285			
Information processing and communications		1,676		1,546		5,017		4,621			
Product delivery and transaction related		880		892		2,726		2,749			
Professional fees		545		525		1,609		1,493			
Marketing		501		505		1,472		1,365			
Other general operating		890		1,171		3,050		3,096			
Total noninterest expense		15,838		15,303		48,114		45,895			
Income before income taxes		8,095		8,301		25,218		23,072			
Income tax expense		293		1,219		1,847		2,676			
Net income	\$	7,802	\$	7,082	\$	23,371	\$	20,396			
Preferred stock dividends		532		503		1,343		1,285			
Net income applicable to common shareholders	\$	7,270	\$	6,579	\$	22,028	\$	19,111			
Per common share information											
Earnings	\$	0.91	\$	0.81	\$	2.74	\$	2.35			
Diluted earnings		0.90		0.81		2.72		2.34			
Average common shares issued and outstanding		8,017.1		8,107.7		8,041.3		8,122.2			
Average diluted common shares issued and outstanding		8,075.9		8,160.8		8,153.4		8,173.3			

Consolidated Statement of Comprehensive Income

	Thre	e Months En	Nine Months Ended September 30						
(Dollars in millions)		2023	2022		2023		2022		
Net income	\$	7,802	\$ 7,082	\$	23,371	\$	20,396		
Other comprehensive income (loss), net-of-tax:									
Net change in debt securities		(642)	(1,112)		81		(6,381)		
Net change in debit valuation adjustments		(25)	462		(419)		1,298		
Net change in derivatives		(366)	(3,703)		(317)		(10,890)		
Employee benefit plan adjustments		6	37		25		97		
Net change in foreign currency translation adjustments		(23)	(37)		(6)		(47)		
Other comprehensive income (loss)		(1,050)	(4,353)		(636)		(15,923)		
Comprehensive income (loss)	\$	6,752	\$ 2,729	\$	22,735	\$	4,473		

Bank of America Corporation and Subsidiaries

Consolidated Balance Sheet				
(Dollars in millions)	Se	eptember 30 2023	D	ecember 31 2022
Assets				
Cash and due from banks	\$	25,255	\$	30,334
Interest-bearing deposits with the Federal Reserve, non-U.S. central banks and other banks		326,471		199,869
Cash and cash equivalents		351,726		230,203
Time deposits placed and other short-term investments		7,995		7,259
Federal funds sold and securities borrowed or purchased under agreements to resell		000 040		007.574
(includes \$170,332 and \$146,999 measured at fair value)		309,249		267,574
Trading account assets (includes \$154,684 and \$115,505 pledged as collateral) Derivative assets		306,409 47,464		296,108 48,642
Debt securities:		47,404		40,042
Carried at fair value		175,540		229,994
Held-to-maturity, at cost (fair value \$471,761 and \$524,267)		603,333		632,825
Total debt securities		778,873		862,819
Loans and leases (includes \$4,250 and \$5,771 measured at fair value)		1,049,149		1,045,747
Allowance for loan and lease losses		(13,287)		(12,682)
Loans and leases, net of allowance		1,035,862		1,033,065
Premises and equipment, net		11,821		11,510
Goodwill		69,021		69,022
Loans held-for-sale (includes \$1,607 and \$1,115 measured at fair value)		7,591		6,871
Customer and other receivables		74,347		67,543
Other assets (includes \$9,058 and \$9,594 measured at fair value) Total assets	\$	152,732 3,153,090	\$	150,759 3,051,375
Total assets	Ψ	3,133,090	Ψ	3,031,373
Liabilities				
Deposits in U.S. offices:				
Noninterest-bearing	\$	549,333	\$	640,745
Interest-bearing (includes \$404 and \$311 measured at fair value)		1,228,039		1,182,590
Deposits in non-U.S. offices:				
Noninterest-bearing		15,276		20,480
Interest-bearing Table describe		91,953		86,526
Total deposits Federal funda purahagad and acquiting leaned as gold under assessments to repurchaga		1,884,601		1,930,341
Federal funds purchased and securities loaned or sold under agreements to repurchase (includes \$209,837 and \$151,708 measured at fair value)		300,703		195,635
Trading account liabilities		102,820		80,399
Derivative liabilities		40,855		44,816
Short-term borrowings (includes \$4,046 and \$832 measured at fair value)		40,196		26,932
Accrued expenses and other liabilities (includes \$10,011 and \$9,752 measured at fair value				
and \$1,353 and \$1 ,540 of reserve for unfunded lending commitments)		206,492		224,073
Long-term debt (includes \$39,443 and \$33,070 measured at fair value)		290,359		275,982
Total liabilities		2,866,026		2,778,178
Commitments and contingencies (Note 6 – 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 – 4,088,099 and 4,088,101 shares		28,397		28,397
Common stock and additional paid-in capital, \$0.01 par value; authorized - 12,800,000,000 shares;				
issued and outstanding – 7,923,357,339 and 7,996,777,943 shares		56,710		58,953
Retained earnings		223,749		207,003
Accumulated other comprehensive income (loss)		(21,792)		(21,156)
Total shareholders' equity		287,064		273,197
Total liabilities and shareholders' equity	\$	3,153,090	\$	3,051,375
Assets of consolidated variable interest entities included in total assets above (isolated to settle the liabilities of the variable interest entities)				
Trading account assets	\$	4,654	\$	2,816
Loans and leases		16,902		16,738
Allowance for loan and lease losses		(809)		(797)
Loans and leases, net of allowance All other assets		16,093 222		15,941 116
Total assets of consolidated variable interest entities	\$	20,969	\$	18,873
Liabilities of consolidated variable interest entities included in total liabilities above	-	,		· -
Short-term borrowings (includes \$23 and \$42 of non-recourse short-term borrowings)	\$	2,059	\$	42
Long-term debt (includes \$6,566 and \$4,581 of non-recourse debt)		6,566		4,581
All other liabilities (includes \$12 and \$13 of non-recourse liabilities)		12		12
Total liabilities of consolidated variable interest entities	\$	8,637	\$	4,635

See accompanying Notes to Consolidated Financial Statements.

Consolidated Statement of Changes in Shareholders' Equity

	P	referred	Common Additional P		n Capital		Retained	Co	ocumulated Other mprehensive	Sha	Total areholders'
(In millions)		Stock	Shares		Amount		Earnings	In	come (Loss)		Equity
Balance, June 30, 2023	\$	28,397	7,953.6	\$	57,267	\$	218,397	\$	(20,742)	\$	283,319
Net income							7,802				7,802
Net change in debt securities									(642)		(642)
Net change in debit valuation adjustments									(25)		(25)
Net change in derivatives									(366)		(366)
Employee benefit plan adjustments									6		6
Net change in foreign currency translation adjustments									(23)		(23)
Dividends declared:											
Common							(1,919)				(1,919)
Preferred							(531)				(531)
Common stock issued under employee plans, net, and other			2.3		443						443
Common stock repurchased			(32.5)		(1,000)						(1,000)
Balance, September 30, 2023	\$	28,397	7,923.4	\$	56,710	\$	223,749	\$	(21,792)	\$	287,064
Balance, December 31, 2022	\$	28,397	7,996.8	\$	58,953	\$	207,003	\$	(21,156)	¢	273,197
Cumulative adjustment for adoption of credit loss accounting	Ψ	20,331	1,550.6	Ψ	36,933	Ψ	201,003	Ψ	(21,130)	Ψ	213,191
standard							184				184
Net income							23,371				23,371
Net change in debt securities									81		81
Net change in debit valuation adjustments									(419)		(419)
Net change in derivatives									(317)		(317)
Employee benefit plan adjustments									25		25
Net change in foreign currency translation adjustments									(6)		(6)
Dividends declared:									()		()
Common							(5,459)				(5,459)
Preferred							(1,343)				(1,343)
Common stock issued under employee plans, net, and other			45.1		1,522		(7)				1,515
Common stock repurchased			(118.5)		(3,765)		()				(3,765)
Balance, September 30, 2023	\$	28,397	7,923.4	\$	56,710	\$	223,749	\$	(21,792)	\$	287,064
Balance, June 30, 2022	\$	29,134	8,035.2	\$	59,499	\$	197,159	\$	(16,674)	\$	269,118
Net income	Ψ	25,154	0,000.2	Ψ	55,455	Ψ	7,082	Ψ	(10,014)	Ψ	7,082
Net change in debt securities							7,002		(1,112)		(1,112)
Net change in debit valuation adjustments									462		462
Net change in derivatives									(3,703)		(3,703)
Employee benefit plan adjustments									37		37
Net change in foreign currency translation adjustments									(37)		(37)
Dividends declared:									(37)		(31)
Common							(1,780)				(1,780)
Preferred							(503)				(503)
Common stock issued under employee plans, net, and other			2.5		411		(1)				410
Common stock repurchased			(13.2)		(450)		(1)				(450)
Balance, September 30, 2022	\$	29.134	8,024.5	\$	59,460	\$	201,957	\$	(21,027)	\$	269,524
		,	<u> </u>								
Balance, December 31, 2021	\$	24,708	8,077.8	\$	62,398	\$	188,064	\$	(5,104)	\$	270,066
Net income							20,396		(0.204)		20,396
Net change in debt securities									(6,381)		(6,381)
Net change in debit valuation adjustments									1,298		1,298
Net change in derivatives									(10,890)		(10,890)
Employee benefit plan adjustments									97		97
Net change in foreign currency translation adjustments									(47)		(47)
Dividends declared:							/E / 200				/F 400°
Common							(5,188)				(5,188)
Preferred		4 400					(1,285)				(1,285)
Issuance of preferred stock		4,426	=		4		,a.c.				4,426
Common stock issued under employee plans, net, and other			44.5		1,137		(30)				1,107
Common stock repurchased		00.404	(97.8)	Φ.	(4,075)	<u></u>	004.05=	Φ.	(04.00=)	Φ.	(4,075)
Balance, September 30, 2022	\$	29,134	8,024.5	\$	59,460	\$	201,957	\$	(21,027)	Ъ	269,524

See accompanying Notes to Consolidated Financial Statements.

Bank of America Corporation and Subsidiaries

Consolidated Statement of Cash Flows

	Nine Months End	ed September 30
(Dollars in millions)	2023	2022
Operating activities		
Net income	\$ 23,371	\$ 20,396
Adjustments to reconcile net income to net cash provided by operating activities:		
Provision for credit losses	3,290	1,451
(Gains) losses on sales of debt securities	404	(37)
Depreciation and amortization	1,530	1,476
Net amortization of premium/discount on debt securities	155	1,862
Deferred income taxes	(1,440)	620
Stock-based compensation	2,214	2,235
Loans held-for-sale:		
Originations and purchases	(11,545)	(18,736)
Proceeds from sales and paydowns of loans originally classified as held for sale and instruments from related securitization activities	10,716	27,260
Net change in:	,	,
Trading and derivative assets/liabilities	4,681	(106,322)
Other assets	(6,887)	7,623
Accrued expenses and other liabilities	(18,086)	23,869
Other operating activities, net	3,855	978
Net cash provided by (used in) operating activities	12,258	(37,325)
Investing activities		(0.,020)
Net change in:		
Time deposits placed and other short-term investments	(736)	(305)
Federal funds sold and securities borrowed or purchased under agreements to resell	(41,675)	(24,527)
Debt securities carried at fair value:	(12,010)	(2.,02.)
Proceeds from sales	94,080	58,888
Proceeds from paydowns and maturities	50,008	90,161
Purchases	(90,855)	(114,027)
Held-to-maturity debt securities:	(30,333)	(114,021)
Proceeds from paydowns and maturities	28,517	53,340
Purchases	(98)	(24,059)
Loans and leases:	(33)	(24,000)
Proceeds from sales of loans originally classified as held for investment and instruments		
from related securitization activities	7,734	20,544
Purchases	(3,935)	(4,618)
Other changes in loans and leases, net	(9,973)	(69,267)
Other investing activities, net	(4,271)	(3,039)
Net cash provided by (used in) investing activities	28,796	(16,909)
Financing activities	,	(, ,
Net change in:		
Deposits	(45,740)	(126,434)
Federal funds purchased and securities loaned or sold under agreements to repurchase	105,068	23,298
Short-term borrowings	13,264	(2,709)
Long-term debt:	,	,
Proceeds from issuance	52.955	55.202
Retirement	(32,167)	(24,390)
Preferred stock:	, ,	(, ,
Proceeds from issuance	_	4,426
Common stock repurchased	(3,765)	(4,075)
Cash dividends paid	(6,854)	(6,471)
Other financing activities, net	(707)	(501)
Net cash provided by (used in) financing activities	82,054	(81,654)
Effect of exchange rate changes on cash and cash equivalents	(1,585)	(7,357)
Net increase (decrease) in cash and cash equivalents	121,523	(143,245)
Cash and cash equivalents at January 1	230,203	348,221
Cash and cash equivalents at September 30	\$ 351,726	\$ 204,976
and the opening of the opening of	Ţ 001,720	, 204,010

See accompanying Notes to Consolidated Financial Statements.

Bank of America Corporation and Subsidiaries Notes to Consolidated Financial Statements

NOTE 1 Summary of Significant Accounting Principles

Bank of America Corporation, a bank holding company and a financial holding company, provides a diverse range of financial services and products throughout the U.S. and in certain international markets. The term "the Corporation" as used herein may refer to Bank of America Corporation, individually, Bank of America Corporation and its subsidiaries, or certain of Bank of America Corporation's subsidiaries or affiliates.

Principles of Consolidation and Basis of Presentation

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

The preparation of the Consolidated Financial Statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect reported amounts and disclosures. Actual 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, and related notes thereto, of the Corporation's 2022 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.

New Accounting Standard Issued

Investments - Equity Method and Joint Ventures

The FASB updated its guidance on the accounting for tax credit investments, which permits entities to make an accounting

policy election to apply the proportional amortization method when certain conditions are met. The new accounting guidance is effective on a retrospective or modified retrospective basis beginning on January 1, 2024, with early adoption permitted. If adopted, the Corporation does not expect the guidance to have a material impact on its consolidated financial position or results of operations.

New Accounting Standard Adopted

Financial Instruments - Credit Losses

On January 1, 2023, the Corporation adopted the new accounting and disclosure requirements for expected credit losses (ECL) that removed the recognition and measurement guidance on troubled debt restructurings (TDRs) and added disclosures on the financial effect and subsequent performance of certain types of modifications made to borrowers experiencing financial difficulties.

Upon adoption of the standard, the Corporation recorded a reduction of \$243 million in the allowance for credit losses for the impact of changes in the methodology used to estimate the allowance for credit losses for non-collateral dependent consumer and commercial TDRs. There was no impact to the valuation of loans previously classified as collateral-dependent TDRs. After adjusting for deferred taxes, the Corporation recorded an increase of \$184 million in retained earnings through a cumulative-effect adjustment.

The additional disclosures are included in *Note* 5 – *Outstanding Loans and Leases and Allowance for Credit Losses* on a prospective basis and include loan modifications where the contractual payment terms of the borrower's loan agreement were modified through a refinancing or restructuring. Modifications that do not impact the contractual payment terms, such as covenant waivers, insignificant payment deferrals, and any modifications made to loans carried at fair value, loans held-for-sale (LHFS) and leases are not included in the disclosures.

The Corporation uses various indicators to identify borrowers in financial difficulty. Consumer loan borrowers that are delinquent and commercial loan borrowers that are rated substandard or worse are the primary criteria used to identify borrowers who are experiencing financial difficulty.

If a borrower is current at the time of modification, the loan generally remains a performing loan as long as there is demonstrated performance prior to the modification, and payment in full under the modified terms is expected. Otherwise, the loan is placed on nonaccrual status and reported as nonperforming, excluding fully-insured consumer real estate loans, until there is sustained repayment performance for a reasonable period.

The allowance for loan and lease losses for modified loans is determined in a manner consistent with the methodology for the respective class and credit rating of the financing receivable as described in Note 1 – Summary of Significant Accounting Principles to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

NOTE 2 Net Interest Income and Noninterest Income

The table below presents the Corporation's net interest income and noninterest income disaggregated by revenue source for the three and nine months ended September 30, 2023 and 2022. For more information, see *Note 1 - Summary of Significant Accounting Principles* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K. For a disaggregation of noninterest income by business segment and *All Other*, see *Note 17 - Business Segment Information*.

	Three	Months End	led S	eptember 30	Nin	e Months End	eptember 30	
(Dollars in millions)	2	023		2022		2023		2022
Net interest income								
Interest income								
Loans and leases	\$	14,830	\$	10,231	\$	41,897	\$	25,805
Debt securities		4,658		4,239		14,809		12,111
Federal funds sold and securities borrowed or purchased under agreements to resell		4,888		1,446		13,555		1,835
Trading account assets		2,217		1,449		6,321		3,753
Other interest income		7,031		2,256		18,051		3,986
Total interest income		33,624		19,621		94,633		47,490
Interest expense								
Deposits		7,340		1,235		17,439		1,719
Short-term borrowings		7,629		2,264		22,164		2,705
Trading account liabilities		510		383		1,486		1,117
Long-term debt		3,766		1,974		10,559		4,168
Total interest expense		19,245		5,856		51,648		9,709
Net interest income	\$	14,379	\$	13,765	\$	42,985	\$	37,781
Noninterest income								
Fees and commissions								
Card income								
Interchange fees (1)	\$	994	\$	1,060	\$	2,973	\$	3,067
Other card income		526		513		1,562		1,464
Total card income		1,520		1,573		4,535		4,531
Service charges								
Deposit-related fees		1,124		1,162		3,266		4,109
Lending-related fees		340		304		972		907
Total service charges		1,464		1,466		4,238		5,016
Investment and brokerage services								
Asset management fees		3,103		2,920		8,990		9,308
Brokerage fees		860		875		2,664		2,870
Total investment and brokerage services		3,963		3,795		11,654		12,178
Investment banking fees								
Underwriting income		531		452		1,757		1,559
Syndication fees		209		283		620		896
Financial advisory services		448		432		1,186		1,297
Total investment banking fees		1,188		1,167		3,563		3,752
Total fees and commissions		8,135		8,001		23,990		25,477
Market making and similar activities		3,325		3,068		11,734		9,023
Other income (loss)		(672)		(332)		(2,087)		(1,863)
Total noninterest income	\$	10,788	\$	10,737	\$	33,637	\$	32,637

⁽¹⁾ Gross interchange fees and merchant income are \$3.4 billion and \$3.3 billion for the three months ended September 30, 2023 and 2022 and are presented net of \$2.4 billion and \$2.2 billion of expenses for rewards and partner payments as well as certain other card costs for the same periods. Gross interchange fees and merchant income were \$9.9 billion and \$9.5 billion for the nine months ended September 30, 2023 and 2022 and are presented net of \$7.0 billion and \$6.4 billion of expenses for rewards and partner payments as well as certain other card costs for the same periods.

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 and Note 3

Derivatives to the Consolidated Financial Statements of the Corporation's 2022 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, 2023 and December 31, 2022. 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.

							Septembe	r 30,	2023				
			Gro	oss Deriv	ative Ass	ets			Gros	s Derivative	Liab	ilities	
(Dollars in billions)	Contract/ Notional ⁽¹⁾		Trading and Other Risk Vlanagement Derivatives	Qualifying Accounting Hedges			Total	Ot Ma	ading and ther Risk nagement erivatives	Qualifying Accounting Hedges			Total
Interest rate contracts													
Swaps	\$ 20,628.			\$	9.0	\$	158.2	\$	125.0	\$ 2	9.7	\$	154.7
Futures and forwards	3,903.0		11.1		_		11.1		9.5		_		9.5
Written options (2)	1,874.9		_		_		_		42.4		_		42.4
Purchased options (3)	1,764.	8	43.0		_		43.0		_		_		_
Foreign exchange contracts													
Swaps	1,905.	9	41.2		0.7		41.9		38.6		0.2		38.8
Spot, futures and forwards	4,947.:	1	49.3		1.1		50.4		47.1		0.9		48.0
Written options (2)	464.	4	_		_		_		7.4		_		7.4
Purchased options (3)	442.	3	7.8		_		7.8		_		_		_
Equity contracts													
Swaps	411.	2	12.7		_		12.7		14.0		_		14.0
Futures and forwards	138.	4	2.1		_		2.1		1.4		_		1.4
Written options (2)	1,018.:	1	_		_		_		47.8		_		47.8
Purchased options (3)	873.:	1	42.0		_		42.0		_		_		_
Commodity contracts													
Swaps	62.	7	3.2		_		3.2		4.5		_		4.5
Futures and forwards	185.9	9	3.7		_		3.7		2.4		0.7		3.1
Written options (2)	61.:	1	_		_		_		3.5		_		3.5
Purchased options (3)	67.0	0	3.2		_		3.2		_		_		_
Credit derivatives (4)													
Purchased credit derivatives:													
Credit default swaps	412.0	6	2.3		_		2.3		1.9		_		1.9
Total return swaps/options	66.0	0	1.5		_		1.5		0.9		_		0.9
Written credit derivatives:													
Credit default swaps	386.	2	1.6		_		1.6		2.0		_		2.0
Total return swaps/options	61.	7	1.4		_		1.4		0.5		_		0.5
Gross derivative assets/liabilities		\$	375.3	\$	10.8	\$	386.1	\$	348.9	\$ 3	1.5	\$	380.4
Less: Legally enforceable master netting agreements							(305.7)						(305.7
Less: Cash collateral received/paid							(32.9)						(33.8
Total derivative assets/liabilities						\$	47.5					\$	40.9

¹⁾ Represents the total contract/notional amount of derivative assets and liabilities outstanding.

⁽²⁾ Includes certain out-of-the-money purchased options that have a liability amount primarily due to the deferral of option premiums to the end of the contract.

⁽³⁾ Includes certain out-of-the-money written options that have an asset amount primarily due to the deferral of option premiums to the end of the contract.

⁽⁴⁾ The net derivative asset (liability) and notional amount of written credit derivatives for which the Corporation held purchased credit derivatives with identical underlying referenced names were \$(420) million and \$366.1 billion at September 30, 2023.

		December 31, 2022											
			Gro	ss Der	rivative As	sets			Gros	s Deriva	itive Liab	ilities	
(Dollars in billions)	Contract/ Notional ⁽¹⁾	Trading Other Manage Deriva	Risk ement	Acc	alifying ounting edges		Total	Ot Mar	iding and her Risk nagement rivatives	Acco	lifying unting dges		Total
Interest rate contracts													
Swaps	\$ 18,285.9	\$	138.2	\$	20.7	\$	158.9	\$	120.3	\$	36.7	\$	157.0
Futures and forwards	2,796.3		8.6		_		8.6		7.8		_		7.8
Written options (2)	1,657.9		_		_		_		41.4		_		41.4
Purchased options (3)	1,594.7		42.4		_		42.4		_		_		_
Foreign exchange contracts													
Swaps	1,509.0		44.0		0.3		44.3		43.3		0.4		43.7
Spot, futures and forwards	4,159.3		59.9		0.1		60.0		62.1		0.6		62.7
Written options (2)	392.2		_		_		_		8.1		_		8.1
Purchased options (3)	362.6		8.3		_		8.3		_		_		_
Equity contracts													
Swaps	394.0		10.8		_		10.8		12.2		_		12.2
Futures and forwards	114.6		3.3		_		3.3		1.0		_		1.0
Written options (2)	746.8		_		_		_		45.0		_		45.0
Purchased options (3)	671.6		40.9		_		40.9		_		_		_
Commodity contracts													
Swaps	56.0		5.1		_		5.1		5.3		_		5.3
Futures and forwards	157.3		3.0		_		3.0		2.3		8.0		3.1
Written options (2)	59.5		_		_		_		3.3		_		3.3
Purchased options (3)	61.8		3.6		_		3.6		_		_		_
Credit derivatives (4)													
Purchased credit derivatives:													
Credit default swaps	319.9		2.8		_		2.8		1.6		_		1.6
Total return swaps/options	71.5		0.7		_		0.7		3.0		_		3.0
Written credit derivatives:													
Credit default swaps	295.2		1.2		_		1.2		2.4		_		2.4
Total return swaps/options	85.3		4.4		_		4.4		0.9		_		0.9
Gross derivative assets/liabilities		\$:	377.2	\$	21.1	\$	398.3	\$	360.0	\$	38.5	\$	398.5
Less: Legally enforceable master netting agreements							(315.9)						(315.9)
Less: Cash collateral received/paid							(33.8)						(37.8)
Total derivative assets/liabilities						\$	48.6					\$	44.8

⁽¹⁾ Represents the total contract/notional amount of derivative assets and liabilities outstanding.

Offsetting of Derivatives

The Corporation enters into International Swaps and Derivatives Association, Inc. (ISDA) master netting agreements or similar agreements with substantially all of the Corporation's derivative counterparties. For more information, see *Note 3 – Derivatives* to the Consolidated Financial Statements of the Corporation's 2022 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, 2023 and December 31, 2022 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.

For more information on offsetting of securities financing agreements, see Note 9 – Securities Financing Agreements, Collateral and Restricted Cash.

⁽²⁾ Includes certain out-of-the-money purchased options that have a liability amount primarily due to the deferral of option premiums to the end of the contract.
(3) Includes certain out-of-the-money written options that have an asset amount primarily due to the deferral of option premiums to the end of the contract.

⁽⁴⁾ The net derivative asset (liability) and notional amount of written credit derivatives for which the Corporation held purchased credit derivatives with identical underlying referenced names were \$(1.2) billion and \$276.9 billion at December 31, 2022.

Offsetting of Derivatives (1)

	Derivative Assets			erivative iabilities	Derivative Assets		erivative Liabilities
(Dollars in billions)		Septembe	r 30, 2	023	December	31, 2	1022
Interest rate contracts							
Over-the-counter	\$	135.6	\$	127.9	\$ 138.4	\$	132.3
Exchange-traded		0.4		0.2	0.4		0.1
Over-the-counter cleared		75.3		75.5	71.4		71.1
Foreign exchange contracts							
Over-the-counter		97.8		92.5	109.7		110.6
Over-the-counter cleared		0.9		0.9	1.3		1.2
Equity contracts							
Over-the-counter		23.9		27.3	21.5		22.6
Exchange-traded		32.6		34.0	33.0		33.8
Commodity contracts							
Over-the-counter		6.8		8.0	8.3		9.3
Exchange-traded		2.4		2.4	2.4		1.9
Over-the-counter cleared		0.4		0.5	0.3		0.3
Credit derivatives							
Over-the-counter		6.7		5.2	8.9		7.5
Total gross derivative assets/liabilities, before netting							
Over-the-counter		270.8		260.9	286.8		282.3
Exchange-traded		35.4		36.6	35.8		35.8
Over-the-counter cleared		76.6		76.9	73.0		72.6
Less: Legally enforceable master netting agreements and cash collateral received/paid							
Over-the-counter		(228.9)		(229.4)	(243.8)		(248.2)
Exchange-traded		(34.5)		(34.5)	(33.5)		(33.5)
Over-the-counter cleared		(75.2)		(75.6)	(72.4)		(72.0)
Derivative assets/liabilities, after netting		44.2		34.9	45.9		37.0
Other gross derivative assets/liabilities (2)		3.3		6.0	2.7		7.8
Total derivative assets/liabilities		47.5		40.9	48.6		44.8
Less: Financial instruments collateral (3)		(18.5)		(9.9)	(18.5)		(7.4)
Total net derivative assets/liabilities	\$	29.0	\$	31.0	\$ 30.1	\$	37.4

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

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

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 foreign exchange rates (fair value hedges). The Corporation also uses these types of contracts to protect

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

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

Fair Value Hedges

The table below summarizes information related to fair value hedges for the three and nine months ended September 30, 2023 and 2022.

Gains and Losses on Derivatives Designated as Fair Value Hedges

	Th	ree Months Ended	Sep	tember 30, 2023	Th	ree Months Ended	Sep	tember 30, 2022
(Dollars in millions)		Derivative		Hedged Item		Derivative		Hedged Item
Interest rate risk on long-term debt ⁽¹⁾	\$	(4,339)	\$	4,299	\$	(8,435)	\$	8,437
Interest rate and foreign currency risk (2)		114		(113)		(77)		78
Interest rate risk on available-for-sale securities (3)		1,934		(1,927)		8,675		(8,769)
Price risk on commodity inventory (4)		410		(410)		1,006		(938)
Total	\$	(1,881)	\$	1,849	\$	1,169	\$	(1,192)

· ·	N	ne Months Ended S	Sept	ember 30, 2023	Ν	ine Months Ended S	ember 30, 2022	
		Derivative		Hedged Item		Derivative		Hedged Item
Interest rate risk on long-term debt ⁽¹⁾	\$	(4,581)	\$	4,510	\$	(27,458)	\$	27,630
Interest rate and foreign currency risk (2)		229		(225)		(137)		137
Interest rate risk on available-for-sale securities (3)		787		(795)		23,442		(23,705)
Price risk on commodity inventory (4)		582		(582)		1,374		(1,270)
Total	\$	(2,983)	\$	2,908	\$	(2,779)	\$	2,792

⁽¹⁾ 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 and Liabilities

		September 30, 2023				December	31	, 2022
		Cumulative Fair Value						Cumulative
(Dellana to million a)	Cor	ming Value		fair value diustments ⁽¹⁾		Corning Value		Fair Value Adjustments (1)
(Dollars in millions)	Car	rying Value	A	,	_	Carrying Value	_	
Long-term debt ⁽²⁾	\$	194,138	\$	(14,154)	\$	187,402	\$	(21,372)
Available-for-sale debt securities (2, 3, 4)		86,730		(6,262)		167,518		(18,190)
Trading account assets (5)		7,452		205		16,119		146

⁽¹⁾ Increase (decrease) to carrying value

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, 2023 and 2022. Of the \$12.3 billion after-tax net loss (\$16.3 billion pretax) on derivatives in accumulated OCI at September 30, 2023, losses of \$4.7 billion after-tax (\$6.2 billion pretax) related to both open and terminated cash flow hedges are expected to be reclassified into earnings in the next 12 months. These net

losses reclassified into earnings are expected to primarily decrease net interest income related to the respective hedged items. For open cash flow hedges, the maximum length of time over which forecasted transactions are hedged is approximately ten years. For terminated cash flow hedges, the time period over which the forecasted transactions will be recognized in interest income is approximately five years, with the aggregated amount beyond this time period being insignificant.

Represents cross-currency interest rate swaps related to available-for-sale debt securities and long-term debt. For the three and nine months ended September 30, 2023, the derivative amount includes gains (losses) of \$21 million and \$22 million in interest income, \$2 million and \$9 million in interest expense, \$90 million and \$195 million in market making and similar activities, and \$1 million and \$3 million in accumulated other comprehensive income (OCI). For the same periods in 2022, the derivative amount includes gains (losses) of \$(6) million and \$(40) million in interest expense, \$(71) million and \$(96) million in market making and similar activities, and \$0 and \$(1) million in accumulated OCI. Line item totals are in the Consolidated Statement of Income and on the Consolidated Balance Sheet.

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

⁽⁴⁾ Amounts are recorded in market making and similar activities in the Consolidated Statement of Income.

At September 30, 2023 and December 31, 2022, the cumulative fair value adjustments remaining on long-term debt and available-for-sale debt securities from discontinued hedging relationships resulted in a decrease of \$10.7 billion and an increase of \$137 million in the related liability and a decrease in the related asset of \$5.6 billion and \$4.9 billion, which are being amortized over the remaining contractual life of the de-designated hedged items.

⁽³⁾ These amounts include the amortized cost of the financial assets in closed portfolios used to designate hedging relationships in which the hedged item is a stated layer that is expected to be remaining at the end of the hedging relationship (i.e. portfolio layer hedging relationship). At September 30, 2023 and December 31, 2022, the amortized cost of the closed portfolios used in these hedging relationships was \$21.3 billion and \$21.4 billion, of which \$17.3 billion and \$9.2 billion were designated in a portfolio layer hedging relationship. At September 30, 2023 and December 31, 2022, the cumulative adjustment associated with these hedging relationships was a decrease of \$741 million and \$451 million.

⁽⁴⁾ Carrying value represents amortized cost.

⁽⁵⁾ Represents hedging activities related to certain commodities inventory.

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

	Reco Accun	s (Losses) ognized in nulated OCI erivatives	Gains (Losses) in Income Reclassified from Accumulated OCI		Gains (Losses) Recognized in Accumulated OCI on Derivatives		F	Gains (Losses) in Income Reclassified from Accumulated OCI		
(Dollars in millions, amounts pretax)	Three	Months Ended	Septem	ber 30, 2023	Ni	ne Months Ended	Sept	ember 30, 2023		
Cash flow hedges										
Interest rate risk on variable-rate portfolios (1)	\$	(737)	\$	(263)	\$	(1,065)	\$	(612)		
Price risk on forecasted MBS purchases (1)		2		_		6		_		
Price risk on certain compensation plans (2)		(8)		7		28		18		
Total	\$	(743)	\$	(256)	\$	(1,031)	\$	(594)		
Net investment hedges										
Foreign exchange risk ⁽³⁾	\$	802	\$	133	\$	334	\$	136		
	Three !	Months Ended	Septem	nber 30, 2022	Nir	Nine Months Ended September 30, 2022				
Cash flow hedges										
Interest rate risk on variable-rate portfolios (1)	\$	(5,045)	\$	(110)	\$	(14,443)	\$	(191)		
Price risk on forecasted MBS purchases (1)		_		_		(129)		13		
Price risk on certain compensation plans (2)		(13)		5		(107)		24		
Total	\$	(5,058)	\$	(105)	\$	(14,679)	\$	(154)		
Net investment hedges										
Foreign exchange risk (3)	\$	1,541	\$	3	\$	3,339	\$	3		

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

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 table below presents gains (losses) on these derivatives for the three and nine months ended September 30, 2023 and 2022. These gains (losses) are largely offset by the income or expense recorded on the hedged item.

Gains and Losses on Other Risk Management Derivatives

	Thre	ee Months End	ed September 30	Nine Months End	ed September 30
(Dollars in millions)		2023	2022	2023	2022
Interest rate risk on mortgage activities (1, 2)	\$	(54)	\$ (64)	\$ (51)	\$ (321)
Credit risk on loans (2)		(7)	(30)	(47)	(17)
Interest rate and foreign currency risk on asset and liability management activities (3)		381	1,591	1,040	7,204
Price risk on certain compensation plans (4)		(199)	(192)	184	(1,283)

¹⁾ Includes hedges of interest rate risk on mortgage servicing rights (MSRs) and interest rate lock commitments (IRLCs) to originate mortgage loans that will be held for sale.

Transfers of Financial Assets with Risk Retained through Derivatives

The Corporation enters into certain transactions involving the transfer of financial assets that are accounted for as sales where substantially all of the economic exposure to the transferred financial assets is retained through derivatives (e.g., interest rate and/or credit), but the Corporation does not retain control over the assets transferred. At September 30, 2023 and December 31, 2022, the Corporation had transferred \$4.3 billion and \$4.8 billion of non-U.S. government-guaranteed mortgage-backed securities 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 \$4.3 billion and \$4.9 billion at the transfer dates. At September 30, 2023 and December 31, 2022, the fair value of the transferred securities was \$4.2 billion and \$4.7 billion.

Sales and Trading Revenue

The Corporation enters into trading derivatives to facilitate client transactions and to manage risk exposures arising from trading

account assets and liabilities. It is the Corporation's policy to include these derivative instruments in its trading activities, which include derivatives and non-derivative cash instruments. The resulting risk from these derivatives is managed on a portfolio basis as part of the Corporation's *Global Markets* business segment. For more information on sales and trading revenue, see *Note 3 – Derivatives* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

The following table, 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, 2023 and 2022. 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 following table is not presented on an FTE basis.

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

⁽³⁾ Amounts reclassified from accumulated OCI are recorded in other income in the Consolidated Statement of Income. For the three and nine months ended September 30, 2023, amounts excluded from effectiveness testing and recognized in market making and similar activities were gains of \$36 million and \$145 million. For the same periods in 2022 amounts excluded from effectiveness testing and recognized in market making and similar activities were gains of \$38 million and losses of \$109 million.

⁽²⁾ Gains (losses) on these derivatives are recorded in other income

⁽³⁾ Gains (losses) on these derivatives are recorded in market making and similar activities.

⁽⁴⁾ Gains (losses) on these derivatives are recorded in market making and similar activities.

Sales and Trading Revenue

(Dollars in millions)	ma s	Market king and similar ctivities Thre	I	t Interest ncome nths Ended		Other ⁽¹⁾ tember 30,	2023	Total	ma	Market aking and similar activities Nine	ı	t Interest ncome ths Ended		Other ⁽¹⁾ ember 30, 2	2023	Total
Interest rate risk	\$	815	\$	80	\$	90	\$	985	\$	2,867	\$	218	\$	301	\$	3,386
Foreign exchange risk		446		32		17		495		1,355		113		55		1,523
Equity risk		1,458		(218)		426		1,666		5,116		(1,566)		1,345		4,895
Credit risk		349		590		93		1,032		1,140		1,865		303		3,308
Other risk (2)		126		(11)		3		118		521		(153)		(8)		360
Total sales and trading revenue	\$	3,194	\$	473	\$	629	\$	4,296	\$	10,999	\$	477	\$	1,996	\$	13,472
		Three	e Mon	ths Ended	Sept	tember 30,	2022	2		Nine	Mon	ths Ended	Sept	ember 30,	2022	<u> </u>
Interest rate risk	\$	372	\$	432	\$	140	\$	944	\$	1,452	\$	1,381	\$	291	\$	3,124
Foreign exchange risk		552		13		(54)		511		1,562		(13)		(51)		1,498
Equity risk		1,532		(399)		416		1,549		4,474		(694)		1,404		5,184
Credit risk		252		544		114		910		561		1,559		176		2,296
Other risk (2)		165		(62)		17		120		670		(138)		77		609
Total sales and trading revenue	\$	2.873	\$	528	\$	633	\$	4.034	\$	8.719	\$	2.095	\$	1.897	\$	12.711

⁽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 \$474 million and \$1.5 billion for the three and nine months ended September 30, 2023 compared to \$444 million and \$1.5 billion for the same periods in 2022.

Credit Derivatives

The Corporation enters into credit derivatives primarily to facilitate client transactions and to manage credit risk exposures. Credit derivatives are classified as investment and non-investment grade based on the credit quality of the underlying referenced obligation. The Corporation considers ratings of BBB- or higher as investment grade. Non-investment

grade includes non-rated credit derivative instruments. The Corporation discloses internal categorizations of investment grade and non-investment grade consistent with how risk is managed for these instruments. For more information on credit derivatives, see *Note 3 – Derivatives* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

^{2022. (2)} Includes commodity risk.

Credit derivative instruments where the Corporation is the seller of credit protection and their expiration at September 30, 2023 and December 31, 2022 are summarized in the table below.

Credit Derivative Instruments

		Less than One Year	Т	One to hree Years		Three to ive Years	(Over Five Years		Total
				S	eptei	mber 30, 202	23			
(Dollars in millions)					Ca	rrying Value				
Credit default swaps:										
Investment grade	\$	_	\$	8	\$	69	\$	44	\$	121
Non-investment grade		19		286		778		793		1,876
Total		19		294		847		837		1,997
Total return swaps/options:										
Investment grade		21		118		_		_		139
Non-investment grade		106		199		93		10		408
Total		127		317		93		10		547
Total credit derivatives	\$	146	\$	611	\$	940	\$	847	\$	2,544
Credit-related notes:	<u> </u>									_,
Investment grade	\$	_	\$	_	\$	1	\$	745	\$	746
Non-investment grade	•	_	•	4	•	6	*	1,128	*	1,138
Total credit-related notes	\$		\$	4	\$	7	\$	1,873	\$	1,884
Total Grount Foldicou Hotels	Ψ		Ψ			n Payout/Not		1,010	Ψ	1,001
Credit default swaps:				111000		,,				
Investment grade	\$	32,425	\$	63,851	\$	139,008	\$	47,781	\$	283,065
Non-investment grade		15,441		32,430		41,234		14,069		103,174
Total		47,866		96,281		180,242		61,850		386,239
Total return swaps/options:		,		,		,		,		
Investment grade		25,097		12,709		1,598		105		39,509
Non-investment grade		15,600		3,255		2,387		939		22,181
Total		40,697		15,964		3,985		1,044		61,690
Total credit derivatives	\$	88,563	\$	112,245	\$	184,227	\$	62,894	\$	447,929
	*	,			-			,		
				D	ecen	nber 31, 202	22			
					Ca	rrying Value				
Credit default swaps:										
Investment grade	\$	2	\$	25	\$	133	\$	34	\$	194
Non-investment grade		120		516		870		697		2,203
Total		122		541		1,003		731		2,397
Total return swaps/options:										
Investment grade		55		336		_		_		391
Non-investment grade		332		9		132		10		483
Total		387		345		132		10		874
Total credit derivatives	\$	509	\$	886	\$	1,135	\$	741	\$	3,271
Credit-related notes:						,				
Investment grade	\$	_	\$	_	\$	19	\$	1,017	\$	1,036
Non-investment grade	,	_	•	7	•	6	,	1,035	•	1,048
Total credit-related notes	\$	<u> </u>	\$	7	\$	25	\$	2,052	\$	2,084
Total Stoul Holaton Hotol	<u> </u>					n Payout/Not		2,002		2,00
Credit default swaps:				11167						
Investment grade	\$	34,670	\$	66,170	\$	93,237	\$	18,677	\$	212,754
Non-investment grade		15,229		29,629		30,891		6,662		82,411
Total		49,899		95,799		124,128		25,339		295,165
Total return swaps/options:						·				<u> </u>
Investment grade		38,722		10,407		_		_		49,129
Non-investment grade		32,764		500		2,054		897		36,215
Total		71,486		10,907		2,054		897		85,344
Total credit derivatives	\$	121,385	\$	106,706	\$	126,182	\$	26,236	\$	380,509
	•	-,0		.,		,		,		,2

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 (CLO) 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

Certain 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, 2023 December 31, 2022, the Corporation held cash and securities collateral of \$104.6 billion and \$101.3 billion and posted cash and securities collateral of \$84.1 billion and \$81.2 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 3 - Derivatives* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

At September 30, 2023, 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 \$2.9 billion, including \$1.5 billion for Bank of America, National Association (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, 2023 and December 31, 2022, the liability recorded for these derivative contracts was not significant.

The following table presents the amount of additional collateral that would have been contractually required by derivative contracts and other trading agreements at September 30, 2023 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. The table also presents derivative liabilities that would be subject to unilateral termination by counterparties upon downgrade of the Corporation's or certain subsidiaries' long-term senior debt ratings.

Additional Collateral Required to be Posted and Derivative Liabilities Subject to Unilateral Termination Upon Downgrade at September 30, 2023

(Dollars in millions)	In	One cremental Notch	Second Incremental Notch				
Additional collateral required to be posted upon downgrade							
Bank of America Corporation	\$	174	\$	951			
Bank of America, N.A. and subsidiaries (1)		82		793			
Derivative liabilities subject to unilateral termination upon downgrade							
Derivative liabilities	\$	57	\$	477			
Collateral posted		56		312			

 $^{^{(1)}}$ Included in Bank of America Corporation collateral requirements in this table.

Valuation Adjustments on Derivatives

The table below presents credit valuation adjustment (CVA), DVA and FVA gains (losses) on derivatives (excluding the effect of any related hedge activities), which are recorded in market making and similar activities, for the three and nine months ended September 30, 2023 and 2022. For more information on the valuation adjustments on derivatives, see *Note* 3 – *Derivatives* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

Valuation Adjustments Gains (Losses) on Derivatives (1)

	Three M	lonths End	led S	eptember 30
(Dollars in millions)	20)23		2022
Derivative assets (CVA)	\$	30	\$	(44)
Derivative assets/liabilities (FVA)		21		67
Derivative liabilities (DVA)		18		103

	Nine N	onths End	ed Se	eptember 30
(Dollars in millions)	2	023		2022
Derivative assets (CVA)	\$	151	\$	(217)
Derivative assets/liabilities (FVA)		4		147
Derivative liabilities (DVA)		(66)		444

⁽¹⁾ At September 30, 2023 and December 31, 2022, cumulative CVA reduced the derivative assets balance by \$367 million and \$518 million, cumulative FVA reduced the net derivative balance by \$50 million and \$54 million, and cumulative DVA reduced the derivative liabilities balance by \$440 million and \$506 million.

NOTE 4 Securities

The table below presents the amortized cost, gross unrealized gains and losses, and fair value of available-for-sale (AFS) debt securities, other debt securities carried at fair value and held-to-maturity (HTM) debt securities at September 30, 2023 and December 31, 2022.

Debt Securities

	Amortized	Gross Unrealized	Gross Unrealized	Fair	Amortized	Gross Unrealized	Gross Unrealized	Fair
	Cost	Gains	Losses	Value	Cost	Gains	Losses	Value
(Dollars in millions)		Septembe	r 30, 2023			December	· 31, 2022	
Available-for-sale debt securities								
Mortgage-backed securities:								
Agency	\$ 22,435	\$ —	\$ (1,931)	\$ 20,504	\$ 25,204	\$ 5	\$ (1,767)	\$ 23,442
Agency-collateralized mortgage obligations	1,964	_	(266)	1,698	2,452	_	(231)	2,221
Commercial	7,309	14	(582)	6,741	6,894	28	(515)	6,407
Non-agency residential (1)	452	3	(68)	387	461	15	(90)	386
Total mortgage-backed securities	32,160	17	(2,847)	29,330	35,011	48	(2,603)	32,456
U.S. Treasury and government agencies	104,828	6	(1,198)	103,636	160,773	18	(1,769)	159,022
Non-U.S. securities	18,901	18	(47)	18,872	13,455	4	(52)	13,407
Other taxable securities	3,271	1	(93)	3,179	4,728	1	(84)	4,645
Tax-exempt securities	10,965	_	(372)	10,593	11,518	19	(279)	11,258
Total available-for-sale debt securities	170,125	42	(4,557)	165,610	225,485	90	(4,787)	220,788
Other debt securities carried at fair value (2)	9,933	56	(59)	9,930	8,986	376	(156)	9,206
Total debt securities carried at fair value	180,058	98	(4,616)	175,540	234,471	466	(4,943)	229,994
Held-to-maturity debt securities								
Agency mortgage-backed securities	474,100	_	(106,890)	367,210	503,233	_	(87,319)	415,914
U.S. Treasury and government agencies	121,633	_	(23,351)	98,282	121,597	_	(20,259)	101,338
Other taxable securities	7,632	_	(1,363)	6,269	8,033	_	(1,018)	7,015
Total held-to-maturity debt securities	603,365	_	(131,604)	471,761	632,863	_	(108,596)	524,267
Total debt securities (3,4)	\$ 783,423	\$ 98	\$ (136,220)	\$ 647,301	\$ 867,334	\$ 466	\$(113,539)	\$ 754,261

⁽¹⁾ At both September 30, 2023 and December 31, 2022, the underlying collateral type included approximately 17 percent prime and 83 percent subprime.

At September 30, 2023, the accumulated net unrealized loss on AFS debt securities, excluding the amount related to debt securities previously transferred to held to maturity, included in accumulated OCI was \$3.4 billion, net of the related income tax benefit of \$1.1 billion. At September 30, 2023 and December 31, 2022, nonperforming AFS debt securities held by the Corporation were not significant.

At September 30, 2023 and December 31, 2022, \$738.2 billion and \$826.5 billion of AFS and HTM debt securities, which were predominantly U.S. agency and U.S. Treasury securities, have a zero credit loss assumption. For the same periods, the ECL on the remaining \$35.3 billion and \$31.8 billion of AFS and HTM debt securities were insignificant. For more information on the zero credit loss assumption, see *Note 1 - Summary of Significant Accounting Principles* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

At September 30, 2023 and December 31, 2022, the Corporation held equity securities at an aggregate fair value of \$270 million and \$581 million and other equity securities, as valued under the measurement alternative, at a carrying value of \$373 million and \$340 million, both of which are included in

other assets. At September 30, 2023 and December 31, 2022, the Corporation also held money market investments at a fair value of \$1.1 billion and \$868 million, which are included in time deposits placed and other short-term investments.

The gross realized gains and losses on sales of AFS debt securities for the three and nine months ended September 30, 2023 and 2022 are presented in the table below.

Gains and Losses on Sales of AFS Debt Securities

		ee Mor Septen		Ended 30	Ni		ths Ended 1ber 30		
(Dollars in millions)	20)23	2	2022	2	2023	2	022	
Gross gains	\$	_	\$	540	\$	104	\$	1,243	
Gross losses		_		(526)		(508)	(1,206)	
Net gains (losses) on sales of AFS debt securities	\$	_	\$	14	\$	(404)	\$	37	
Income tax expense (benefit) attributable to realized net gains (losses) on sales of AFS debt									
securities	\$		\$	4	\$	(101)	\$!		

⁽²⁾ Primarily includes non-U.S. securities used to satisfy certain international regulatory requirements. Any changes in value are reported in market making and similar activities. For detail on the components, see Note 14 - Fair Value Measurements.

⁽³⁾ Includes securities pledged as collateral of \$141.0 billion and \$104.5 billion at September 30, 2023 and December 31, 2022.

⁽⁴⁾ The Corporation held debt securities from Fannie Mae (FNMA) and Freddie Mac (FHLMC) that each exceeded 10 percent of shareholders' equity, with an amortized cost of \$273.7 billion and \$167.8 billion, and a fair value of \$211.5 billion and \$129.0 billion at September 30, 2023, and an amortized cost of \$290.5 billion and \$176.7 billion, and a fair value of \$239.6 billion and \$144.6 billion at December 31, 2022.

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, 2023 and December 31, 2022.

Total AFS Debt Securities in a Continuous Unrealized Loss Position

	L	ess than Tv	velve	Months		Twelve Mont	ths o	r Longer		То	tal	
	F			Gross				Gross				Gross
		Fair Value		nrealized Losses		Fair Value	U	nrealized Losses		Fair Value		nrealized Losses
(Dallara in williams)		value		Losses		Septembe	. 20			value		Losses
(Dollars in millions) Continuously unrealized loss-positioned AFS debt securities						Septembe	1 30,	2023				
Mortgage-backed securities:												
Agency	\$	469	\$	(17)	4	20,002	\$	(1,914)	4	20,471	\$	(1,931)
Agency-collateralized mortgage obligations	Ψ	2	Φ	(11)	Ψ	1.696	Φ	(266)	Ψ	1.698	Ψ	(266)
Commercial		1,527		(34)		4,467		(548)		5,994		(582)
Non-agency residential		1,527		(34)		376		(68)		376		(68)
Total mortgage-backed securities		1.998				26.541		(2,796)		28.539		(2,847)
		1,998		(51)		,		. , ,		,		. , ,
U.S. Treasury and government agencies Non-U.S. securities				(5)		66,979		(1,193)		67,130		(1,198)
		8,388		(24)		1,878		(23)		10,266		(47)
Other taxable securities		1,883		(13)		1,244		(80)		3,127		(93)
Tax-exempt securities		1,738		(43)		2,712		(329)		4,450		(372)
Total AFS debt securities in a continuous		44450		(400)		00.054		(4.404)		440.540		(4.553)
unrealized loss position	\$	14,158	\$	(136)	\$	99,354	\$	(4,421)	\$	113,512	\$	(4,557)
						December	31,	2022				
Continuously unrealized loss-positioned AFS debt securities												
Mortgage-backed securities:												
Agency	\$	18,759	\$	(1.118)	\$	4,437	\$	(649)	\$	23,196	\$	(1.767)
Agency-collateralized mortgage obligations		1,165		(96)		1,022		(135)		2,187		(231)
Commercial		3,273		(150)		2,258		(365)		5,531		(515)
Non-agency residential		264		(65)		97		(25)		361		(90)
Total mortgage-backed securities		23,461		(1,429)		7,814		(1,174)		31,275		(2,603)
U.S. Treasury and government agencies		36,730		(308)		118,636		(1,461)		155,366		(1,769)
Non-U.S. securities		9,399		(34)		756		(18)		10,155		(52)
Other taxable securities		2,036		(16)		1,580		(68)		3,616		(84)
Tax-exempt securities		607		(28)		2,849		(251)		3,456		(279)
Total AFS debt securities in a continuous				. , ,		· · ·		. ,		· · · · · · · · · · · · · · · · · · ·		
unrealized loss position	\$	72,233	\$	(1,815)	\$	131,635	\$	(2,972)	\$	203,868	\$	(4,787)

The remaining contractual maturity distribution and yields of the Corporation's debt securities carried at fair value and HTM debt securities at September 30, 2023 are summarized in the table below. Actual duration and yields may differ as prepayments on the loans underlying the mortgage-backed securities (MBS) or other asset-backed securities (ABS) are passed through to the Corporation.

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

		Due ir Year o			Due after through F		Due after Five Years through Ten Years			Due a Ten Y		Total	
(Dollars in millions)	An	nount	Yield (1)	Α	mount	Yield (1)	Α	mount	Yield (1)	Amount	Yield (1)	Amount	Yield (1)
Amortized cost of debt securities carried at fair value													
Mortgage-backed securities:													
Agency	\$	_	— %	\$	4	3.75 %	\$	31	5.35 %	\$ 22,400	3.53 %	\$ 22,435	3.53 %
Agency-collateralized mortgage obligations		_	_		_	_		_	_	1,964	2.79	1,964	2.79
Commercial		_	_		1,129	3.06		4,619	2.59	1,574	2.45	7,322	2.63
Non-agency residential		_	_		_	_		_	_	735	10.18	735	10.18
Total mortgage-backed securities		_	_		1,133	3.07		4,650	2.61	26,673	3.60	32,456	3.44
U.S. Treasury and government agencies	3	7,773	5.23		45,637	3.05		22,437	2.33	39	3.89	105,886	3.67
Non-U.S. securities	1	7,748	2.04		5,850	1.17		3,203	5.40	678	5.26	27,479	2.33
Other taxable securities		409	5.60		2,355	6.08		294	3.00	213	3.60	3,271	5.59
Tax-exempt securities		1,234	4.13		3,801	3.64		1,997	3.85	3,934	4.23	10,966	3.95
Total amortized cost of debt securities carried at fair value	\$ 5	57,164	4.22	\$	58,776	3.02	\$	32,581	2.77	\$ 31,537	3.71	\$180,058	3.48
Amortized cost of HTM debt securities													
Agency mortgage-backed securities	\$	_	— %	\$	_	— %	\$	12	2.75 %	\$474,088	2.12 %	\$474,100	2.12 %
U.S. Treasury and government agencies		_	_		4,558	1.80	1	17,075	1.37	_	_	121,633	1.39
Other taxable securities		42	5.82		1,262	2.50		272	3.29	6,056	2.49	7,632	2.54
Total amortized cost of HTM debt securities	\$	42	5.82	\$	5,820	1.95	\$1	L17,359	1.37	\$480,144	2.12	\$603,365	1.97
Debt securities carried at fair value													
Mortgage-backed securities:													
Agency	\$	_		\$	4		\$	31		\$ 20,469		\$ 20,504	
Agency-collateralized mortgage obligations	·	_		•	_		·	_		1,698		1,698	
Commercial		1			1.092			4,354		1,305		6.752	
Non-agency residential		_			2			· _		668		670	
Total mortgage-backed securities		1		_	1,098			4,385		24,140		29,624	
U.S. Treasury and government agencies	3	7,776			44,973			21,910		35		104,694	
Non-U.S. securities	1	7,737			5,834			3,199		678		27,448	
Other taxable securities		407			2,330			248		198		3,183	
Tax-exempt securities		1,229			3,725			1,942		3,695		10,591	
Total debt securities carried at fair value	\$ 5	7,150		\$	57,960		\$	31,684		\$ 28,746		\$175,540	
Fair value of HTM debt securities													
Agency mortgage-backed securities	\$	_		\$	_		\$	10		\$367,200		\$367,210	
U.S. Treasury and government agencies		_			4,153			94,129		_		98,282	
Other taxable securities		42			1,169			210		4,848		6,269	
Total fair value of HTM debt securities	\$	42		\$	5,322		\$	94,349		\$372,048		\$471,761	

⁽¹⁾ The weighted-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.

NOTE 5 Outstanding Loans and Leases and Allowance for Credit Losses

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, 2023 and December 31, 2022.

(Dollars in millions)		0-59 Days ast Due ⁽¹⁾		0-89 Days ast Due ⁽¹⁾		D Days or More ast Due ⁽¹⁾	Du	otal Past e 30 Days or More mber 30, 2	Total Current or Less Than 30 Days Past Due (1)	f	Loans ecounted or Under the Fair Value Option	Total Outstandings
Consumer real estate							epte	ilibel 30, 2	023			
Residential mortgage	\$	1.143	\$	278	\$	874	\$	2.295	\$ 226,871			\$ 229.166
Home equity	Ф	1,143 88	Ф	42	Ф	171	Φ	301	25,191			25,492
Credit card and other consumer		00		42		1/1		301	25,191			25,492
Credit card		626		455		1,016		2.097	97,590			99,687
Direct/Indirect consumer (2)		267		455 85		75		427	103.632			104.059
Other consumer		201		65		15		421	103,632			104,039
Total consumer		2.124		860		2,136		5,120	453,406			458,526
Consumer loans accounted for under the fair value option (3)		2,124		800		2,130		5,120	433,400	\$	253	253
Total consumer loans and leases		2,124		860		2,136		5,120	453,406		253	458,779
Commercial												
U.S. commercial		312		345		187		844	355,486			356,330
Non-U.S. commercial		27		16		65		108	123,605			123,713
Commercial real estate (4)		96		258		341		695	72,498			73,193
Commercial lease financing		15		12		16		43	13,861			13,904
U.S. small business commercial (5)		134		76		186		396	18,837			19,233
Total commercial		584		707		795		2,086	584,287			586,373
Commercial loans accounted for under the fair value option ⁽³⁾											3,997	3,997
Total commercial loans and leases		584		707		795		2,086	584,287		3,997	590,370
Total loans and leases (6)	\$	2,708	\$	1,567	\$	2,931	\$	7,206	\$1,037,693	\$	4,250	\$1,049,149
Percentage of outstandings		0.26 %		0.15 %		0.28 %		0.69 %	98.91 %		0.40 %	100.00 %

⁽¹⁾ Consumer real estate loans 30-59 days past due includes fully-insured loans of \$187 million and nonperforming loans of \$167 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of \$70 million and nonperforming loans of \$108 million. Consumer real estate loans 90 days or more past due includes fully-insured loans of \$266 million and nonperforming loans of \$779 million. Consumer real estate loans 30 days past due includes \$1.6 billion, and direct/indirect consumer includes \$37 million of nonperforming loans.

Total outstandings primarily includes auto and specialty lending loans and leases of \$54.0 billion, U.S. securities-based lending loans of \$46.5 billion and non-U.S. consumer loans of \$2.8 billion.

Consumer loans accounted for under the fair value option includes residential mortgage loans of \$67 million and home equity loans of \$186 million. Commercial loans accounted for under the fair value option includes U.S. commercial loans of \$2.5 billion and non-U.S. commercial loans of \$1.5 billion. For more information, see Note 14 - Fair Value Measurements and Note 15 - Fair Value Option.

⁽⁴⁾ Total outstandings includes U.S. commercial real estate loans of \$67.3 billion and non-U.S. commercial real estate loans of \$5.9 billion.

⁽⁵⁾ Includes Paycheck Protection Program loans.

⁽⁶⁾ Total outstandings includes loans and leases pledged as collateral of \$40.3 billion. The Corporation also pledged \$227.7 billion of loans with no related outstanding borrowings to secure potential borrowing capacity with the Federal Reserve Bank and Federal Home Loan Bank.

(Dollars in millions)	9-59 Days st Due ⁽¹⁾	-89 Days ast Due ⁽¹⁾	Days or More st Due (1)	(otal Past Due 30 Days or More mber 31, 20	Total Current or Less Than 30 Days Past Due (1)	Ac fc t	Loans counted or Under he Fair ue Option	Total Outstandings
Consumer real estate									
Residential mortgage	\$ 1,077	\$ 245	\$ 945	\$	2,267	\$ 227,403			\$ 229,670
Home equity	88	32	211		331	26,232			26,563
Credit card and other consumer									
Credit card	466	322	717		1,505	91,916			93,421
Direct/Indirect consumer (2)	204	59	45		308	105,928			106,236
Other consumer	_	_	_		_	156			156
Total consumer	1,835	658	1,918		4,411	451,635			456,046
Consumer loans accounted for under the fair value option ⁽³⁾							\$	339	339
Total consumer loans and leases	1,835	658	1,918		4,411	451,635		339	456,385
Commercial									
U.S. commercial	827	288	330		1,445	357,036			358,481
Non-U.S. commercial	317	59	144		520	123,959			124,479
Commercial real estate (4)	409	81	77		567	69,199			69,766
Commercial lease financing	49	9	11		69	13,575			13,644
U.S. small business commercial (5)	107	63	356		526	17,034			17,560
Total commercial	1,709	500	918		3,127	580,803			583,930
Commercial loans accounted for under the fair value option $^{\left(3\right) }$								5,432	5,432
Total commercial loans and leases	1,709	500	918		3,127	580,803		5,432	589,362
Total loans and leases ⁽⁶⁾	\$ 3,544	\$ 1,158	\$ 2,836	\$	7,538	\$1,032,438	\$	5,771	\$1,045,747
Percentage of outstandings	0.34 %	0.11 %	0.27 %		0.72 %	98.73 %		0.55 %	100.00 %

(1) Consumer real estate loans 30-59 days past due includes fully-insured loans of \$184 million and nonperforming loans of \$155 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of \$75 million and nonperforming loans of \$88 million. Consumer real estate loans 90 days or more past due includes fully-insured loans of \$368 million and nonperforming loans of \$788 million. Consumer real estate loans 90 days past due includes \$1.6 billion, and direct/indirect consumer includes \$27 million of nonperforming loans.

Total outstandings primarily includes auto and specialty lending loans and leases of \$51.8 billion, U.S. securities-based lending loans of \$50.4 billion and non-U.S. consumer loans of \$3.0 billion.

Consumer loans accounted for under the fair value option includes residential mortgage loans of \$71 million and home equity loans of \$268 million. Commercial loans accounted for under the fair value option includes U.S. commercial loans of \$2.9 billion and non-U.S. commercial loans of \$2.5 billion. For more information, see Note 14 - Fair Value Measurements and Note 15 - Fair Value Option.

(4) Total outstandings includes U.S. commercial real estate loans of \$64.9 billion and non-U.S. commercial real estate loans of \$4.8 billion.

(5) Includes Paycheck Protection Program loans

(6) Total outstandings includes loans and leases pledged as collateral of \$18.5 billion. The Corporation also pledged \$163.6 billion of loans with no related outstanding borrowings to secure potential borrowing capacity with the Federal Reserve Bank and Federal Home Loan Bank.

The Corporation has entered into long-term credit protection agreements with FNMA and FHLMC on loans totaling \$8.9 billion and \$9.5 billion at September 30, 2023 and December 31, 2022, 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.

Nonperforming Loans and Leases

Commercial nonperforming loans increased to \$2.0 billion at September 30, 2023 from \$1.1 billion at December 31, 2022, driven by the commercial real estate office property type.

Consumer nonperforming loans were \$2.8 billion at both September 30, 2023 and December 31, 2022.

The following table presents the Corporation's nonperforming loans and leases and loans accruing past due 90 days or more at September 30, 2023 and December 31, 2022. Nonperforming 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 2022 Annual Report on Form 10-K.

Credit Quality

		lonperfor and	ming L Leases			Accruing 90 Day		
(Dollars in millions)	Septemb 202		D	ecember 31 2022	Se	ptember 30 2023	D	ecember 31 2022
Residential mortgage (1)	\$	2,185	\$	2,167	\$	265	\$	368
With no related allowance (2)		1,987		1,973		_		_
Home equity (1)		479		510		_		_
With no related allowance (2)		393		393		_		_
Credit Card		n/a		n/a		1,016		717
Direct/indirect consumer		128		77		1		2
Total consumer		2,792		2,754		1,282		1,087
U.S. commercial		561		553		85		190
Non-U.S. commercial		102		212		4		25
Commercial real estate		1,343		271		6		46
Commercial lease financing		18		4		5		8
U.S. small business commercial		17		14		185		355
Total commercial		2,041		1,054		285		624
Total nonperforming loans	\$	4,833	\$	3,808	\$	1,567	\$	1,711
Percentage of outstanding loans and leases		0.46 %	1	0.37 %		0.15 %		0.16 %

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, see Note 1 -Summary of Significant Accounting Principles to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K. Within the Consumer Real Estate portfolio segment, the primary credit quality indicators are refreshed loanto-value (LTV) and refreshed Fair Isaac Corporation (FICO) score. Refreshed LTV measures the carrying value of the loan as a percentage of the value of the property securing the loan, refreshed quarterly. Home equity loans are evaluated using combined loan-to-value (CLTV), which measures the carrying value of the Corporation's loan and available line of credit combined with any outstanding senior liens against the property as a percentage of the value of the property securing the loan, refreshed quarterly. FICO score measures the creditworthiness of the borrower based on the financial obligations of the borrower and the borrower's credit history. FICO scores are typically refreshed quarterly or more frequently. Certain borrowers (e.g., borrowers that have had debts discharged in a bankruptcy proceeding) may not have their FICO scores updated.

FICO scores are also a primary credit quality indicator for the Credit Card and Other Consumer portfolio segment and the business card portfolio within U.S. small business commercial. Within the Commercial portfolio segment, loans are evaluated using the internal classifications of pass rated or reservable criticized as the primary credit quality indicators. The term reservable criticized refers to those commercial loans that are internally classified or listed by the Corporation as Special Mention, Substandard or Doubtful, which are asset quality categories defined by regulatory authorities. These assets have an elevated level of risk and may have a high probability of default or total loss. Pass rated refers to all loans not considered reservable criticized. In addition to these primary credit quality indicators, the Corporation uses other credit quality indicators for certain types of loans.

The following tables present certain credit quality indicators and gross charge-offs for the Corporation's Consumer Real Estate, Credit Card and Other Consumer, and Commercial portfolio segments by year of origination, except for revolving loans and revolving loans that were modified into term loans, which are shown on an aggregate basis at September 30, 2023.

⁽¹⁾ Residential mortgage loans accruing past due 90 days or more are fully-insured loans. At September 30, 2023 and December 31, 2022 residential mortgage included \$180 million and \$260 million of loans on which interest had been curtailed by the Federal Housing Administration (FHA), and therefore were no longer accruing interest, although principal was still insured, and \$85 million and \$108 million of loans on which interest was still accruing.

⁽²⁾ Primarily relates to loans for which the estimated fair value of the underlying collateral less any costs to sell is greater than the amortized cost of the loans as of the reporting date.

Residential Mortgage - Credit Quality Indicators By Vintage

				Terr	n Loans by	Origi	nation Year		
(Dollars in millions)	Total as of ptember 30, 2023	2023	2022		2021		2020	2019	Prior
Residential Mortgage									
Refreshed LTV									
Less than or equal to 90 percent	\$ 214,919	\$ 12,117	\$ 38,307	\$	77,128	\$	35,708	\$ 17,751	\$ 33,908
Greater than 90 percent but less than or equal to 100									
percent	2,288	593	1,153		391		78	35	38
Greater than 100 percent	917	262	439		129		34	14	39
Fully-insured loans	11,042	351	374		3,483		2,893	867	3,074
Total Residential Mortgage	\$ 229,166	\$ 13,323	\$ 40,273	\$	81,131	\$	38,713	\$ 18,667	\$ 37,059
Residential Mortgage									
Refreshed FICO score									
Less than 620	\$ 2,269	\$ 78	\$ 432	\$	578	\$	382	\$ 118	\$ 681
Greater than or equal to 620 and less than 680	4,737	301	999		1,187		774	316	1,160
Greater than or equal to 680 and less than 740	23,364	1,416	4,743		6,977		3,860	1,920	4,448
Greater than or equal to 740	187,754	11,177	33,725		68,906		30,804	15,446	27,696
Fully-insured loans	11,042	351	374		3,483		2,893	867	3,074
Total Residential Mortgage	\$ 229,166	\$ 13,323	\$ 40,273	\$	81,131	\$	38,713	\$ 18,667	\$ 37,059
Gross charge-offs for the nine months ended September 30, 2023	\$ 26	\$ _	\$ 4	\$	8	\$	4	\$ 2	\$ 8

Home Equity - Credit Quality Indicators

		Lo F	me Equity pans and Reverse	ı	Revolving	Con	evolving Loans verted to
	 Total	Мо	rtgages (1)		Loans	Ter	m Loans
(Dollars in millions)			Septembe	r 30,	, 2023		
Home Equity							
Refreshed LTV							
Less than or equal to 90 percent	\$ 25,336	\$	1,102	\$	19,944	\$	4,290
Greater than 90 percent but less than or equal to 100 percent	66		17		36		13
Greater than 100 percent	90		34		36		20
Total Home Equity	\$ 25,492	\$	1,153	\$	20,016	\$	4,323
Home Equity							
Refreshed FICO score							
Less than 620	\$ 662	\$	134	\$	228	\$	300
Greater than or equal to 620 and less than 680	1,129		125		568		436
Greater than or equal to 680 and less than 740	4,237		253		2,961		1,023
Greater than or equal to 740	19,464		641		16,259		2,564
Total Home Equity	\$ 25,492	\$	1,153	\$	20,016	\$	4,323
Gross charge-offs for the nine months ended September 30, 2023	\$ 18	\$	2	\$	8	\$	8

 $^{^{(1)}}$ Includes reverse mortgages of \$788 million and home equity loans of \$366 million, which are no longer originated.

Credit Card and Direct/Indirect Consumer - Credit Quality Indicators By Vintage

								Direct/Inc	direct												
								Te	erm L	oans by	Origi	nation Ye	ar				C	redi	t Card		
(Dollars in millions)	Ind	tal Direct/ lirect as of tember 30, 2023		volving oans	2	023	:	2022	2	021		2020		2019	Prior	С	otal Credit ard as of tember 30, 2023		evolving Loans	L Cor to	volving oans overted Term ans ⁽¹⁾
Refreshed FICO score																					
Less than 620	\$	1,133	\$	11	\$	186	\$	394	\$	332	\$	93	\$	60	\$ 57	\$	4,957	\$	4,681	\$	276
Greater than or equal to 620 and less than 680		2,502		12		745		861		558		151		87	88		11,440		11,189		251
Greater than or equal to 680 and less than 740		8,741		48		2,851		2,850		1,857		552		297	286		34,219		33,999		220
Greater than or equal to 740		41,720		74	1	3,418		12,831		8,602		3,303		1,739	1,753		49,071		49,021		50
Other internal credit metrics (2,3)		49,963	4	19,285		72		175		145		54		55	177		_		_		_
Total credit card and other																					
consumer	\$	104,059	\$ 4	19,430	\$ 1	7,272	\$	17,111	\$ 1	1,494	\$	4,153	\$	2,238	\$ 2,361	\$	99,687	\$	98,890	\$	797
Gross charge-offs for the nine months ended September 30, 2023	\$	153	\$	3	\$	13	\$	65	\$	37	\$	11	\$	7	\$ 17	\$	2,220	\$	2,139	\$	81

Represents loans that were modified into term loans.
 Other internal credit metrics may include delinquency status, geography or other factors.
 Direct/indirect consumer includes \$49.3 billion of securities-based lending, which is typically supported by highly liquid collateral with market value greater than or equal to the outstanding loan balance and therefore has minimal credit risk at September 30, 2023.

Commercial – Credit Quality Indicators By Vintage $^{(1)}$

ordan Quanty mand	,				Term	Loa	ns				
			Amor	rtized			Origination	ı Ye	ar		
(Dollars in millions)	Total as of ptember 30, 2023	2023	2022		2021		2020		2019	Prior	Revolving Loans
U.S. Commercial											
Risk ratings											
Pass rated	\$ 344,382	\$ 28,937	\$ 46,312	\$	28,465	\$	14,786	\$	13,015	\$ 31,832	\$ 181,035
Reservable criticized	11,948	157	1,203		817		419		733	1,379	7,240
Total U.S. Commercial	\$ 356,330	\$ 29,094	\$ 47,515	\$	29,282	\$	15,205	\$	13,748	\$ 33,211	\$ 188,275
Gross charge-offs for the nine months ended September 30, 2023	\$ 117	\$ 2	\$ 12	\$	21	\$	1	\$	1	\$ 18	\$ 62
Non-U.S. Commercial											
Risk ratings											
Pass rated	\$ 121,753	\$ 12,530	\$ 17,368	\$	16,282	\$	2,770	\$	3,078	\$ 6,528	\$ 63,197
Reservable criticized	1,960	26	183		272		147		244	174	914
Total Non-U.S. Commercial	\$ 123,713	\$ 12,556	\$ 17,551	\$	16,554	\$	2,917	\$	3,322	\$ 6,702	\$ 64,111
Gross charge-offs for the nine months ended September 30, 2023	\$ 31	\$ _	\$ _	\$	8	\$	7	\$	1	\$ _	\$ 15
Commercial Real Estate											
Risk ratings											
Pass rated	\$ 65,055	\$ 3,452	\$ 16,292	\$	12,454	\$	4,393	\$	8,034	\$ 10,771	\$ 9,659
Reservable criticized	8,138	65	662		1,674		530		1,847	2,970	390
Total Commercial Real Estate	\$ 73,193	\$ 3,517	\$ 16,954	\$	14,128	\$	4,923	\$	9,881	\$ 13,741	\$ 10,049
Gross charge-offs for the nine months ended September 30, 2023	\$ 139	\$ 2	\$ _	\$	_	\$	_	\$	44	\$ 93	\$ _
Commercial Lease Financing											
Risk ratings											
Pass rated	\$ 13,703	\$ 2,618	\$ 3,107	\$	2,348	\$	1,519	\$	1,306	\$ 2,805	\$
Reservable criticized	201	6	31		49		23		32	60	
Total Commercial Lease Financing	\$ 13,904	\$ 2,624	\$ 3,138	\$	2,397	\$	1,542	\$	1,338	\$ 2,865	\$
Gross charge-offs for the nine months ended September 30, 2023	\$ 3	\$ _	\$ _	\$	2	\$	1	\$	_	\$ _	\$ _
U.S. Small Business Commercial (2)											
Risk ratings											
Pass rated	\$ 8,919	\$ 1,476	\$ 1,849	\$	1,617	\$	922	\$	752	\$ 1,886	\$ 417
Reservable criticized	379	5	45		89		44		66	127	3
Total U.S. Small Business Commercial	\$ 9,298	\$ 1,481	\$ 1,894	\$	1,706	\$	966	\$	818	\$ 2,013	\$ 420
Gross charge-offs for the nine months ended September 30, 2023	\$ 31	\$ _	\$ 2	\$	1	\$	14	\$	2	\$ 3	\$ 9
Total	\$ 576,438	\$ 49,272	\$ 87,052	\$	64,067	\$	25,553	\$	29,107	\$ 58,532	\$ 262,855
Gross charge-offs for the nine months ended September 30, 2023	\$ 321	\$ 4	\$ 14	\$	32	\$	23	\$	48	\$ 114	\$ 86

⁽¹⁾ Excludes \$4.0 billion of loans accounted for under the fair value option at September 30, 2023.
(2) Excludes U.S. Small Business Card loans of \$9.9 billion. Refreshed FICO scores for this portfolio are \$473 million for less than 620; \$1.0 billion for greater than or equal to 620 and less than 680; \$2.7 billion for greater than or equal to 680 and less than 740; and \$5.7 billion greater than or equal to 740. Excludes U.S. Small Business Card loans gross charge-offs of \$223 million.

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 year of origination, except for revolving loans and revolving loans that were modified into term loans, which are shown on an aggregate basis at December 31, 2022.

Residential Mortgage - Credit Quality Indicators By Vintage

	Term Loans by Origination Year													
(Dollars in millions)		Total as of ecember 31, 2022		2022		2021		2020		2019		2018		Prior
Residential Mortgage														
Refreshed LTV														
Less than or equal to 90 percent	\$	215,713	\$	39,625	\$	81,437	\$	37,228	\$	18,980	\$	5,734	\$	32,709
Greater than 90 percent but less than or equal to 100														
percent		1,615		950		530		93		15		8		19
Greater than 100 percent		648		374		169		43		15		8		39
Fully-insured loans		11,694		580		3,667		3,102		949		156		3,240
Total Residential Mortgage	\$	229,670	\$	41,529	\$	85,803	\$	40,466	\$	19,959	\$	5,906	\$	36,007
Residential Mortgage														
Refreshed FICO score														
Less than 620	\$	2,156	\$	377	\$	518	\$	373	\$	124	\$	84	\$	680
Greater than or equal to 620 and less than 680		4,978		1,011		1,382		840		329		233		1,183
Greater than or equal to 680 and less than 740		25,444		5,411		8,290		4,369		2,187		830		4,357
Greater than or equal to 740		185,398		34,150		71,946		31,782		16,370		4,603		26,547
Fully-insured loans		11,694		580		3,667		3,102		949		156		3,240
Total Residential Mortgage	\$	229,670	\$	41,529	\$	85,803	\$	40,466	\$	19,959	\$	5,906	\$	36,007
Gross charge-offs for the year ended December 31, 2022	\$	161	\$	_	\$	6	\$	5	\$	6	\$	1	\$	143

Home Equity - Credit Quality Indicators

	Total	Lo F	me Equity pans and Reverse rtgages (1)	F	Revolving Loans	Con	evolving Loans verted to m Loans
(Dollars in millions)			December	· 31,	2022		
Home Equity							
Refreshed LTV							
Less than or equal to 90 percent	\$ 26,395	\$	1,304	\$	19,960	\$	5,131
Greater than 90 percent but less than or equal to 100 percent	62		20		24		18
Greater than 100 percent	106		37		35		34
Total Home Equity	\$ 26,563	\$	1,361	\$	20,019	\$	5,183
Home Equity							
Refreshed FICO score							
Less than 620	\$ 683	\$	166	\$	189	\$	328
Greater than or equal to 620 and less than 680	1,190		152		507		531
Greater than or equal to 680 and less than 740	4,321		312		2,747		1,262
Greater than or equal to 740	20,369		731		16,576		3,062
Total Home Equity	\$ 26,563	\$	1,361	\$	20,019	\$	5,183
Gross charge-offs for the year ended December 31, 2022	\$ 45	\$	5	\$	24	\$	16

⁽¹⁾ Includes reverse mortgages of \$937 million and home equity loans of \$424 million, which are no longer originated.

Credit Card and Direct/Indirect Consumer - Credit Quality Indicators By Vintage

					Direct/Inc	direc	t											
					Т	erm	Loans by	Origi	nation Ye	ar				C	redi	t Card		
(Dollars in millions) Refreshed FICO score	Ind	tal Direct/ lirect as of cember 31, 2022	evolving Loans	2022	2021		2020		2019		2018	Prior	C	otal Credit Card as of cember 31, 2022		evolving Loans	Cor to	volving pans overted Term ans ⁽¹⁾
Less than 620	\$	847	\$ 12	\$ 237	\$ 301	\$	113	\$	84	\$	43	\$ 57	\$	4,056	\$	3,866	\$	190
Greater than or equal to 620 and less than 680 Greater than or equal to 680		2,521	12	1,108	816		269		150		69	97		10,994		10,805		189
and less than 740		8,895	52	4,091	2,730		992		520		214	296		32,186		32,017		169
Greater than or equal to 740		39,679	83	16,663	11,392		5,630		2,992		1,236	1,683		46,185		46,142		43
Other internal credit metrics (2, 3)		54,294	53,404	259	305		70		57		40	159		_		_		_
Total credit card and other consumer	\$	106,236	\$ 53,563	\$ 22,358	\$ 15,544	\$	7,074	\$	3,803	\$	1,602	\$ 2,292	\$	93,421	\$	92,830	\$	591
Gross charge-offs for the year ended December 31, 2022	\$	232	\$ 7	\$ 31	\$ 79	\$	34	\$	27	\$	14	\$ 40	\$	1,985	\$	1,909	\$	76

⁽¹⁾ Represents TDRs that were modified into term loans.

Direct/indirect consumer includes \$53.4 billion of securities-based lending, which is typically supported by highly liquid collateral with market value greater than or equal to the outstanding loan balance and therefore has minimal credit risk at December 31, 2022.

Commercial - Credit Quality	/ Indicators By Vintage ⁽¹⁾
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		Term Loans Amortized Cost Basis by Origination Year													
					Amor	tize	d Cost Basi	s by	Origination	ı Ye	ar				
	Total as of ecember 31,													R	Revolving
(Dollars in millions)	 2022		2022		2021		2020		2019		2018		Prior		Loans
U.S. Commercial															
Risk ratings															
Pass rated	\$ 348,447	\$	61,200	\$	39,717	\$	18,609	\$	16,566	\$	8,749	\$	30,282	\$	173,324
Reservable criticized	 10,034	_	278		794		697		884		1,202		856		5,323
Total U.S. Commercial	\$ 358,481	\$	61,478	\$	40,511	\$	19,306	\$	17,450	\$	9,951	\$	31,138	\$	178,647
Gross charge-offs for the year ended December 31, 2022	\$ 151	\$	2	\$	24	\$	24	\$	9	\$	6	\$	13	\$	73
Non-U.S. Commercial															
Risk ratings															
Pass rated	\$ 121,890	\$	24,839	\$	19,098	\$	5,183	\$	3,882	\$	2,423	\$	4,697	\$	61,768
Reservable criticized	2,589		45		395		331		325		98		475		920
Total Non-U.S. Commercial	\$ 124,479	\$	24,884	\$	19,493	\$	5,514	\$	4,207	\$	2,521	\$	5,172	\$	62,688
Gross charge-offs for the year ended December 31, 2022	\$ 41	\$	_	\$	3	\$	1	\$	_	\$	37	\$	_	\$	_
Commercial Real Estate															
Risk ratings															
Pass rated	\$ 64,619	\$	15,290	\$	13,089	\$	5,756	\$	9,013	\$	4,384	\$	8,606	\$	8,481
Reservable criticized	5,147		11		837		545		1,501		1,151		1,017		85
Total Commercial Real Estate	\$ 69,766	\$	15,301	\$	13,926	\$	6,301	\$	10,514	\$	5,535	\$	9,623	\$	8,566
Gross charge-offs for the year ended December 31, 2022	\$ 75	\$	_	\$	_	\$	6	\$	_	\$	26	\$	43	\$	_
Commercial Lease Financing															
Risk ratings															
Pass rated	\$ 13,404	\$	3,255	\$	2,757	\$	1,955	\$	1,578	\$	1,301	\$	2,558	\$	_
Reservable criticized	240		9		35		12		71		50		63		_
Total Commercial Lease Financing	\$ 13,644	\$	3,264	\$	2,792	\$	1,967	\$	1,649	\$	1,351	\$	2,621	\$	_
Gross charge-offs for the year ended December 31, 2022	\$ 8	\$	_	\$	4	\$	_	\$	4	\$	_	\$	_	\$	_
U.S. Small Business Commercial (2)															
Risk ratings															
Pass rated	\$ 8,726	\$	1,825	\$	1,953	\$	1,408	\$	864	\$	624	\$	1,925	\$	127
Reservable criticized	329		11		35		48		76		51		105		3
Total U.S. Small Business Commercial	\$ 9,055	\$	1,836	\$	1,988	\$	1,456	\$	940	\$	675	\$	2,030	\$	130
Gross charge-offs for the year ended December 31, 2022	\$ 31	\$	_	\$	1	\$	11	\$	4	\$	1	\$	6	\$	8
Total	\$ 575,425	\$	106,763	\$	78,710	\$	34,544	\$	34,760	\$	20,033	\$	50,584	\$	250,031
Total gross charge-offs for the year ended December 31, 2022	\$ 306	\$	2	\$	32	\$	42	\$	17	\$	70	\$	62	\$	81

⁽²⁾ Other internal credit metrics may include delinquency status, geography or other factors.

⁽¹⁾ Excludes \$5.4 billion of loans accounted for under the fair value option at December 31, 2022.
(2) Excludes U.S. Small Business Card loans of \$8.5 billion. Refreshed FICO scores for this portfolio are \$297 million for less than 620; \$859 million for greater than or equal to 620 and less than 680; \$2.4 billion for greater than or equal to 680 and less than 740; and \$5.0 billion greater than or equal to 740. Excludes U.S. Small Business Card loans gross charge-offs of \$172 million.

During the nine months ended September 30, 2023, commercial reservable criticized utilized exposure increased to \$23.7 billion at September 30, 2023 from \$19.3 billion (to 3.83 percent from 3.12 percent of total commercial reservable utilized exposure) at December 31, 2022, primarily driven by commercial real estate and U.S. Commercial.

Loan Modifications to Borrowers in Financial Difficulty

As part of its credit risk management, the Corporation may modify a loan agreement with a borrower experiencing financial difficulties through a refinancing or restructuring of the borrower's loan agreement (modification programs).

Consumer Real Estate

The following modification programs are offered for consumer real estate loans to borrowers experiencing financial difficulties. These modifications represented 0.25 percent and 0.35 percent of outstanding residential mortgage and home equity loans at September 30, 2023.

Forbearance and Other Payment Plans: Forbearance plans generally consist of the Corporation suspending the borrower's payments for a defined period with those payments then due at the conclusion of the forbearance period. The aging status of a loan is generally frozen when it enters into a forbearance plan. Alternatively, the Corporation may offer the borrower a payment plan, which allows the borrower to repay past due amounts through payments over a defined period. At September 30, 2023, the amortized cost of residential mortgage loans that were modified through these plans during the three and nine months ended September 30, 2023 was \$270 million and \$437 million. The amortized cost of home equity loans that were modified through these plans during the same periods was \$39 million and \$64 million. The weighted-average duration of residential mortgage loan modifications was approximately 4 months and 8 months for the three and nine months ended September 30, 2023. For the same periods, the weightedaverage duration for home equity loan modifications was approximately 4 months and 9 months. The total forborne payments for residential mortgage loan modifications was \$6 million and \$19 million for the three and nine months ended September 30, 2023. For the same periods, the total forborne payments for home equity modifications was \$2 million and \$7 million. If a borrower is unable to fulfill their obligations under the forbearance plans, they may be offered a trial or permanent modification.

Trial Modifications: Trial modification plans generally consist of the Corporation offering a borrower modified loan terms that reduce their contractual payments temporarily over a three-to-four-month trial period. If the customer successfully makes the modified payments during the trial period and formally accepts the modified terms, the modified loan terms become permanent. At September 30, 2023, the amortized cost of residential mortgage loans entering trial modifications during the three and nine months ended September 30, 2023 was \$33 million and \$83 million. The amortized cost of home equity loans entering trial modifications during the same periods was \$10 million and \$31 million.

Permanent Modifications: Permanent modifications include borrowers that have completed a trial modification and have had their contractual payment terms permanently modified, as well as borrowers that proceed directly to a permanent modification without a trial period. In a permanent modification, the borrower's payment terms are typically modified in more than one manner but generally include a term extension and an interest rate reduction. At times, the permanent modification may also include principal forgiveness and/or a deferral of past due principal and interest amounts to the end of the loan term. The combinations utilized are based on modifying the terms that give the borrower an improved ability to meet the contractual obligations. At September 30, 2023, the amortized cost of residential mortgage loans that were granted a permanent modification during the three and nine months ended September 30, 2023 was \$47 million and \$128 million. The amortized cost of home equity loans that were granted a permanent modification during the same periods was \$9 million and \$26 million. The term extensions granted for residential mortgage and home equity permanent modifications vary widely and can be up to 30 years, but are mostly in the range of 1 to 20 years for both residential mortgage and home equity loans. weighted-average term extension of permanent modifications for residential mortgage loans was 12.1 years and 9.9 years for the three and nine months ended September 30, 2023, while the weighted-average interest rate reduction was 1.31 percent and 1.50 percent. For the same periods, the weighted-average term extension of permanent modifications for home equity loans was 17.2 years and 16.2 years, while the weighted-average interest rate reduction was 2.69 percent and 3.11 percent. Principal forgiveness and payment deferrals were insignificant for the three and nine months ended September 30, 2023,

For consumer real estate borrowers in financial difficulty that received a forbearance, trial or permanent modification, there were no commitments to lend additional funds at September 30, 2023. Borrowers with a home equity line of credit that received a forbearance plan could have all or a portion of their lines reinstated in the future if they cure their payment default and meet certain Bank conditions.

Chapter 7 Discharges: If a borrower's consumer real estate obligation is discharged in a Chapter 7 bankruptcy proceeding, the contractual payment terms of the loan are not modified, although they can no longer be enforced against the individual borrower. The Corporation's ability to collect amounts due on the loan is limited to enforcement against the property through the foreclosure and sale of the collateral. The Corporation will only pursue foreclosure upon default by the borrower, and otherwise will recover pursuant to the loan terms or at the time of a sale. Residential mortgage and home equity loans that were granted a Chapter 7 discharge were insignificant for the three and nine months ended September 30, 2023.

The Corporation tracks the performance of modified loans to assess effectiveness of modification programs. Defaults of modified residential mortgage and home equity loans since January 1, 2023 were \$160 million and \$26 million during the nine months ended September 30, 2023. The table below provides aging information as of September 30, 2023 for consumer real estate loans modified since January 1, 2023.

Consumer Real Estate - Payment Status of Modifications to Borrowers in Financial Difficulty (1)

	Currer	it	-89 Days ast Due		90+ Days Past Due	Total
ars in millions)			Septembe	r 30, 2	023	
ntial mortgage	\$	295	\$ 114	\$	156	\$ 565
equity		51	11		28	90
I	\$	346	\$ 125	\$	184	\$ 655

⁽¹⁾ Excludes trial modifications and Chapter 7 discharges

Consumer real estate foreclosed properties totaled \$93 million and \$121 million at September 30, 2023 and December 31, 2022. The carrying value of consumer real estate loans, including fully-insured loans, for which formal foreclosure proceedings were in process at September 30, 2023 and December 31, 2022 was \$684 million and \$871 million. During the nine months ended September 30, 2023 and 2022, the Corporation reclassified \$86 million and \$151 million of consumer real estate loans to foreclosed properties or, for properties acquired upon foreclosure of certain government-guaranteed loans (principally FHA-insured loans), to other assets. The reclassifications represent non-cash investing activities and, accordingly, are not reflected in the Consolidated Statement of Cash Flows.

Credit Card and Other Consumer

Credit card and other consumer loans are primarily modified by placing the customer on a fixed payment plan with a significantly reduced fixed interest rate, with terms ranging from 6 months to 72 months. As of September 30, 2023, substantially all payment plans provided to customers had a 60-month term. In certain circumstances, the Corporation will forgive a portion of the outstanding balance if the borrower makes payments up to a set amount. The Corporation makes modifications directly with borrowers for loans held by the Corporation (internal programs) as well as through third-party renegotiation agencies that provide solutions to customers' entire unsecured debt structures (external programs). The September 30, 2023 amortized cost of credit card and other consumer loans that were modified through these programs during the three and nine months ended September 30, 2023 was \$196 million and \$455 million. The weighted-average interest rate reduction for the modifications was 19.40 percent and 19.02 percent, and

principal forgiveness was \$16 million and \$41 million during the three and nine months ended September 30, 2023.

The Corporation tracks the performance of modified loans to assess the effectiveness of modification programs. Defaults of modified credit card and other consumer loans since January 1, 2023 were insignificant during the three and nine months ended September 30, 2023. Of the \$455 million in modified credit card and other consumer loans to borrowers experiencing financial difficulty as of September 30, 2023, \$370 million were current, \$47 million were 30-89 days past due, and \$38 million were greater than 90 days past due. These modifications represented 0.22 percent of outstanding credit card and other consumer loans at September 30, 2023.

Commercial Loans

Modifications of loans to commercial borrowers experiencing financial difficulty are designed to reduce the Corporation's loss exposure while providing borrowers with an opportunity to work through financial difficulties, often to avoid foreclosure or bankruptcy. Each modification is unique, reflects the borrower's individual circumstances and is designed to benefit the borrower while mitigating the Corporation's risk exposure. Commercial modifications are primarily term extensions and payment forbearances. Payment forbearances involve the Bank forbearing its contractual right to collect certain payments or payment in full (maturity forbearance) for a defined period of time. Reductions in interest rates and principal forgiveness occur infrequently for commercial borrowers. Principal forgiveness may occur in connection with foreclosure, short sales or other settlement agreements, leading to termination or sale of the loan. The table below provides the ending amortized cost of commercial loans modified during the three and nine months ended September 30, 2023.

Commercial Loans - Modifications to Borrowers in Financial Difficulty

	Term E	xtension	Forb	earances		rest Rate duction	Total
(Dollars in millions)			Three N	Nonths Ended	Septemb	er 30, 2023	
U.S. Commercial	\$	431	\$	24	\$	_	\$ 455
Non-U.S. Commercial		130		_		24	154
Commercial Real Estate		599		219		_	818
Total	\$	1,160	\$	243	\$	24	\$ 1,427
			Nine M	lonths Ended	Septemb	er 30, 2023	
U.S. Commercial	\$	768	\$	33	\$	_	\$ 801
Non-U.S. Commercial		162		_		24	186
Commercial Real Estate		1,069		287		_	1,356
Total	\$	1,999	\$	320	\$	24	\$ 2,343

Term extensions granted increased the weighted-average life of the impacted loans by 1.8 years at both the three and nine months ended September 30, 2023. The weighted-average duration of loan payments deferred under the Corporation's

commercial loan forbearance program was 8 months for the three months ended September 30, 2023 and 9 months for the nine months ended September 30, 2023. The deferral period for loan payments can vary, but are mostly in the range of 9

months to 24 months. The weighted-average interest rate reduction was 0.59 percent for both the three and nine months ended September 30, 2023. Modifications of loans to troubled borrowers for Commercial Lease Financing and U.S. Small Business Commercial were not significant during the three and nine months ended September 30, 2023.

The Corporation tracks the performance of modified loans to assess effectiveness of modification programs. Defaults of modified Commercial loans since January 1, 2023 were insignificant during the nine months ended September 30, 2023. The table below provides aging information as of September 30, 2023 for commercial loans modified since January 1, 2023.

Commercial - Payment Status of Modified Loans to Borrowers in Financial Difficulty

	Current	:	30-89 Days Past Due		90+ Days Past Due	Total	% of Total Class of Financing Receivable
(Dollars in millions)				Sept	ember 30, 2023		
U.S. Commercial	\$ 766	\$	21	\$	14	\$ 801	0.22 %
Non-U.S. Commercial	186		_		_	186	0.15
Commercial Real Estate	1,083		60		213	1,356	1.85
Total	\$ 2,035	\$	81	\$	227	\$ 2,343	0.42

For the nine months ended September 30, 2023, the Corporation had commitments to lend \$871 million to commercial borrowers experiencing financial difficulty whose loans were modified during the period.

Prior-period Troubled Debt Restructuring Disclosures

Prior to adopting the new accounting standard on loan modifications, the Corporation accounted for modifications of loans to borrowers experiencing financial difficulty as TDRs, when the modification resulted in a concession. The following discussion reflects loans that were considered TDRs prior to January 1, 2023. For more information on TDR accounting policies, see *Note 1 – Summary of Significant Accounting Principles* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

Consumer Real Estate

The table below presents the September 30, 2022 unpaid principal balance, carrying value, and average pre- and post-modification interest rates of consumer real estate loans that were modified in TDRs during the three and nine months ended September 30, 2022. 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. Binding trial modifications are classified as TDRs when the trial offer is made and continue to be classified as TDRs regardless of whether the borrower enters into a permanent modification.

At December 31, 2022, 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 - TDRs Entered into During the Three and Nine Months Ended September 30, 2022

	Pri	npaid incipal alance		Carrying Value	Pre- Modification Interest Rate	Post- Modification Interest Rate ⁽¹⁾	Unpaid Principal Balance		Carrying Value	Pre- Modification Interest Rate	Post- Modification Interest Rate ⁽¹⁾
(Dollars in millions)		Thi	ee M	onths Ended	September 30, 2	022	Niı	пе М	onths Ended	September 30, 20	022
Residential mortgage	\$	420	\$	379	3.35 %	3.34 %	\$ 1,036	\$	929	3.50 %	3.36 %
Home equity		99		86	4.58	4.83	216		176	4.20	4.31
Total	\$	519	\$	465	3.58	3.62	\$ 1,252	\$	1,105	3.62	3.52

⁽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.

The table below presents the September 30, 2022 carrying value for consumer real estate loans that were modified in a TDR during the three and nine months ended September 30, 2022, by type of modification.

Consumer Real Estate - Modification Programs

	TDRs E	Intered into	TDRs	Entered into
	Dui	ring the	D	uring the
	Three M	onths Ended	Nine N	Nonths Ended
(Dollars in millions)	Septemb	er 30, 2022	Septen	nber 30, 2022
Modifications under proprietary programs	\$	420	\$	999
Loans discharged in Chapter 7 bankruptcy (1)		4		12
Trial modifications		41		94
Total modifications	\$	465	\$	1,105

 $^{^{(1)}}$ Includes loans discharged in Chapter 7 bankruptcy with no change in repayment terms that are classified as TDRs.

The table below presents the carrying value of consumer real estate loans that entered into payment default during the three and nine months ended September 30, 2022 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

(Dollars in millions)	September 30, 2022	September 30, 2022	
Modifications under proprietary programs	\$ 63	\$ 135	5
Loans discharged in Chapter 7 bankruptcy (1)	1	2	2
Trial modifications (2)	8	19	9
Total modifications	\$ 72	\$ 156	ວີ

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

Credit Card and Other Consumer

The table below provides information on the Corporation's Credit Card and Other Consumer TDR portfolio including the September 30, 2022 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, 2022.

Credit Card and Other Consumer - TDRs Entered into During the Three and Nine Months Ended September 30, 2022

	Pri	npaid incipal alance		arrying alue ⁽¹⁾	Pre- Modification Interest Rate	Post- Modification Interest Rate	Unpaid Principal Balance		Carrying Value ⁽¹⁾	Pre- Modification Interest Rate	Post- Modification Interest Rate
(Dollars in millions)		Thre	e Mor	ths Ended	September 30, 2	022	Nin	е Мс	onths Ended S	September 30, 20)22
Credit card	\$	86	\$	90	21.17 %	3.80 %	\$ 198	\$	206	21.02 %	3.82 %
Direct/Indirect consumer		2		2	5.65	5.65	5		4	5.48	5.48
Total	\$	88	\$	92	20.87	3.83	\$ 203	\$	210	20.69	3.86

⁽¹⁾ Includes accrued interest and fees

The table below presents the September 30, 2022 carrying value for Credit Card and Other Consumer loans that were modified in a TDR during the three and nine months ended September 30, 2022 by program type.

Credit Card and Other Consumer - TDRs by Program Type (1)

Total	\$ 92	\$ 210
Other	2	4
External programs	13	32
Internal programs	\$ 77	\$ 174
(Dollars in millions)	September 30, 2022	September 30, 2022
	During the Three Months Ended	During the Nine Months Ended
	IDRS Entered Into	TDRS Entered Into

⁽¹⁾ Includes accrued interest and fees.

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 credit card and other consumer. Based on historical experience, the Corporation estimates that 12 percent of new credit card TDRs and 20 percent of new direct/indirect consumer TDRs may be in payment default within 12 months after modification.

Commercial Loans

During the three and nine months ended September 30, 2022, the carrying value of the Corporation's commercial loans that were modified as TDRs was \$745 million and \$1.7 billion. At December 31, 2022, the Corporation had commitments to lend \$358 million to commercial borrowers whose loans were classified as TDRs. The balance of commercial TDRs in payment default was \$105 million at December 31, 2022.

Loans Held-for-sale

The Corporation had LHFS of \$7.6 billion and \$6.9 billion at September 30, 2023 and December 31, 2022. Cash and non-

cash proceeds from sales and paydowns of loans originally classified as LHFS were \$10.8 billion and \$27.8 billion for the nine months ended September 30, 2023 and 2022. Cash used for originations and purchases of LHFS totaled \$11.5 billion and \$18.7 billion for the nine months ended September 30, 2023 and 2022. Also included were non-cash net transfers into LHFS of \$634 million and \$2.1 billion for the nine months ended September 30, 2023 and 2022.

TDDs Entered into

Accrued Interest Receivable

Accrued interest receivable for loans and leases and loans heldfor-sale at September 30, 2023 and December 31, 2022 was \$4.3 billion and \$3.8 billion and is reported in customer and other receivables on the Consolidated Balance Sheet.

Outstanding credit card loan balances include unpaid principal, interest and fees. Credit card loans are not classified as nonperforming but are charged off no later than the end of the month in which the account becomes 180 days past due, within 60 days after receipt of notification of death or bankruptcy, or upon confirmation of fraud. During the three and nine months ended September 30, 2023, the Corporation

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

reversed \$152 million and \$409 million of interest and fee income against the income statement line item in which it was originally recorded upon charge-off of the principal balance of the loan compared to \$81 million and \$241 million for the same periods in 2022.

For the outstanding residential mortgage, home equity, direct/indirect consumer and commercial loan balances classified as nonperforming during the three and nine months ended September 30, 2023 and 2022, interest and fee income reversed at the time the loans were classified as nonperforming was not significant. For more information on the Corporation's nonperforming loan policies, see *Note 1 - Summary of Significant Accounting Principles* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

Allowance for Credit Losses

The allowance for credit losses is estimated using quantitative and qualitative methods that consider a variety of factors, such as historical loss experience, the current credit quality of the portfolio and an economic outlook over the life of the loan. Qualitative reserves cover losses that are expected but, in the Corporation's assessment, may not be adequately reflected in the quantitative methods or the economic assumptions. The Corporation incorporates forward-looking information through the use of several macroeconomic scenarios in determining the weighted economic outlook over the forecasted life of the assets. These scenarios include key macroeconomic variables such as gross domestic product, unemployment rate, real estate prices and corporate bond spreads. The scenarios that are chosen each quarter and the weighting given to each scenario depend on a variety of factors including recent economic events, leading economic indicators, internal and third-party economist views, and industry trends. For more information on the Corporation's credit loss accounting policies including the allowance for credit losses, see Note 1 - Summary of Significant Accounting Principles to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form

The September 30, 2023 estimate for allowance for credit losses was based on various economic scenarios, including a baseline scenario derived from consensus estimates, an adverse scenario reflecting an extended moderate recession, a downside scenario reflecting persistent inflation and interest rates above the baseline scenario, a tail risk scenario similar to the severely adverse scenario used in stress testing and an upside scenario that considers the potential for improvement above the baseline scenario. The overall weighted economic outlook of the above scenarios is estimating a mild recessionary environment in late 2023 and early 2024, which has modestly improved compared to the weighted economic outlook

estimated as of December 31, 2022. The weighted economic outlook assumes that the U.S. average unemployment rate will be just above five percent by the fourth quarter of 2024 and will remain near this level through the fourth quarter of 2025. Additionally, in this economic outlook, U.S. real gross domestic product is forecasted to grow at 0.5 percent and at 1.6 percent year-over-year in the fourth quarters of 2024 and 2025.

The allowance for credit losses increased \$418 million from December 31, 2022 to \$14.6 billion at September 30, 2023, which included a \$921 million reserve increase related to the consumer portfolio and a \$503 million reserve decrease related to the commercial portfolio. The increase in the allowance reflected a reserve build in the Corporation's consumer portfolio primarily due to credit card loan growth and asset quality, partially offset by a reserve release in the Corporation's commercial portfolio primarily driven by certain improved macroeconomic conditions. The allowance also includes the impact of the accounting change to remove the recognition and measurement guidance on TDRs, which reduced the allowance for credit losses by \$243 million on January 1, 2023. The change in the allowance for credit losses was comprised of a net increase of \$605 million in the allowance for loan and lease losses and a decrease of \$187 million in the reserve for unfunded lending commitments. The provision for credit losses increased \$336 million to \$1.2 billion, and \$1.8 billion to \$3.3 billion for the three and nine months ended September 30, 2023 compared to the same periods in 2022. The provision for credit losses for the current-year periods was driven by the Corporation's consumer portfolio primarily due to credit card loan growth and asset quality, partially offset by certain improved macroeconomic conditions that primarily benefited the Corporation's commercial portfolio. In addition, provision for credit losses for the three months ended September 30, 2023 benefited from commercial net paydowns. For the three-month period in the prior year, the provision for credit losses was primarily driven by loan growth and a dampened macroeconomic outlook and the nine-month period was driven by the same factors as well as a reserve build related to Russian exposure, partially offset by asset quality improvement and reduced COVID-19 pandemic uncertainties.

Outstanding loans and leases excluding loans accounted for under the fair value option increased \$4.9 billion during the nine months ended September 30, 2023 driven by consumer loans, which increased \$2.5 billion driven by credit card, partially offset by declines in securities-based lending. Commercial loans increased \$2.4 billion driven by broad-based growth.

The changes in the allowance for credit losses, including net charge-offs and provision for loan and lease losses, are detailed in the following table.

		Consumer Real Estate	Credit Card and Other Consumer	Commercial		Total
(Dollars in millions)			Three Months Ended S	eptember 30, 2023	}	
Allowance for loan and lease losses, July 1	\$	427	\$ 7,323	\$ 5,200	\$	12,950
Loans and leases charged off		(15)	(994)	(178)		(1,187
Recoveries of loans and leases previously charged off		27	178	51		256
Net charge-offs		12	(816)	(127)		(931
Provision for loan and lease losses		(28)	1,247	49		1,268
Other		1	1	(2)		_
Allowance for loan and lease losses, September 30		412	7,755	5,120		13,287
Reserve for unfunded lending commitments, July 1		86	_	1,302		1,388
Provision for unfunded lending commitments		(1)	_	(33)		(34
Other		_	_	(1)		(1
Reserve for unfunded lending commitments, September 30		85	_	1,268		1,353
Allowance for credit losses, September 30	\$	497	\$ 7,755	\$ 6,388	\$	14,640
			Thurs Months Fuded C		,	
Allowance for loan and lease losses, July 1	\$	396	Three Months Ended S \$ 6,216	\$ 5,361	\$	11,973
Loans and leases charged off	·	(13)	,	(100)		(809
Recoveries of loans and leases previously charged off		34	216	39		289
Net charge-offs		21	(480)	(61)		(520
Provision for loan and lease losses		(37)	760	122		845
Other		4	700			4
Allowance for loan and lease losses, September 30		384	6,496	5,422		12,302
Reserve for unfunded lending commitments, July 1		79		1,382		1.461
Provision for unfunded lending commitments		(1)	_	54		53
Other		_	_	1		1
Reserve for unfunded lending commitments, September 30		78		1,437		1,515
Allowance for credit losses, September 30	\$	462	\$ 6,496	\$ 6,859	\$	13,817
(Dollars in millions)		400	Nine Months Ended S			40.000
Allowance for loan and lease losses, December 31	\$	420	\$ 6,817		\$	12,682
January 1, 2023 adoption of credit loss standard		(67)	. ,	(67)		(243
Allowance for loan and lease losses, January 1		353	6,708	5,378		12,439
Loans and leases charged off		(44)	, , ,	(544)		(3,367
Recoveries of loans and leases previously charged off		81	565	114		760
Net charge-offs		37	(2,214)	(430)		(2,607
Provision for loan and lease losses		14	3,259	204		3,477
Other		8	2 7755	(32)		(22
Allowance for loan and lease losses, September 30		412	7,755	5,120		13,287
Reserve for unfunded lending commitments, January 1		94	_	1,446		1,540
Provision for unfunded lending commitments		(9)		(178)		(187
Reserve for unfunded lending commitments, September 30	\$	85 497	\$ 7.755	1,268 \$ 6.388	\$	1,353
Allowance for credit losses, September 30	3	497	\$ 1,155	\$ 6,388	Ф	14,640
			Nine Months Ended S	eptember 30, 2022	!	
Allowance for loan and lease losses, January 1	\$	557	\$ 6,476	\$ 5,354	\$	12,387
Loans and leases charged off		(196)	(2,007)	(284)		(2,487
Recoveries of loans and leases previously charged off		195	684	125		1,004
Net charge-offs		(1)	(1,323)	(159)		(1,483
Provision for loan and lease losses		(179)	1,344	229		1,394
Other		7	(1)	(2)		4
Allowance for loan and lease losses, September 30		384	6,496	5,422		12,302
Reserve for unfunded lending commitments, January 1		96	_	1,360		1,456
Provision for unfunded lending commitments		(18)	_	75		57
Other		`	_	2		2
Reserve for unfunded lending commitments, September 30		78	_	1,437		1,515
Allowance for credit losses, September 30	\$	462	\$ 6,496	\$ 6,859	\$	13,817

NOTE 6 Securitizations and Other Variable Interest Entities

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 and liabilities of consolidated and unconsolidated VIEs at September 30, 2023 and December 31, 2022 in situations where the Corporation has continuing involvement with transferred assets or if the Corporation otherwise has a variable interest in the VIE. The tables also present the Corporation's maximum loss

exposure at September 30, 2023 and December 31, 2022 resulting from its involvement with consolidated VIEs and unconsolidated VIEs in which the Corporation holds a variable interest. For more information on the Corporation's use of VIEs and related maximum loss exposure, see *Note 1 - Summary of Significant Accounting Principles* and *Note 6 - Securitizations and Other Variable Interest Entities* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

The Corporation invests in ABS issued by third-party VIEs with which it has no other form of involvement and enters into

certain commercial lending arrangements that may also incorporate the use of VIEs, for example to hold collateral.

These securities and loans are included in Note 4 – Securities or Note 5 – Outstanding Loans and Leases and Allowance for Credit Losses. In addition, the Corporation has used VIEs in connection with its funding activities.

The Corporation did not provide financial support to consolidated or unconsolidated VIEs during the three and nine months ended September 30, 2023 or the year ended December 31, 2022 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 \$950 million and \$978 million at September 30, 2023 and December 31, 2022.

First-lien Mortgage Securitizations

As part of its mortgage banking activities, the Corporation securitizes a portion of the first-lien residential mortgage loans it originates or purchases from third parties. Except as described in *Note 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, 2023 and 2022.

First-lien Mortgage Securitizations

		Res	idential Mo	rtga	ge - Agency		Commercial Mortgage									
	Three Mor Septen				Nine Mon Septen	 		Three Mor Septen				Nine Mon Septen				
(Dollars in millions)	2023		2022		2023	2022		2023		2022		2023		2022		
Proceeds from loan sales (1)	\$ 1,220	\$	3,259	\$	3,475	\$ 7,000	\$	1,167	\$	779	\$	1,764	\$	5,194		
Gains on securitizations (2)	(2)		_		(6)	8		33		13		35		39		
Repurchases from securitization trusts (3)	10		21		24	46		_		_		_		_		

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

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 \$93.5 billion and \$102.6 billion at September 30, 2023 and 2022. Servicing fee and ancillary fee income on serviced loans was \$55 million and \$187 million during the three and nine months ended September 30, 2023 compared to \$71 million and \$215 million for the same periods in 2022. Servicing advances on serviced loans, including loans serviced for others and loans held for investment, were \$1.3 billion and \$1.6 billion at

September 30, 2023 and December 31, 2022. For more information on MSRs, see *Note* 14 – *Fair Value Measurements*.

During the three and nine months ended September 30, 2023, the Corporation deconsolidated agency residential mortgage securitization trusts with total assets of \$35 million and \$659 million compared to \$22 million and \$585 million for the same periods in 2022.

The following table summarizes select information related to first-lien mortgage securitization trusts in which the Corporation held a variable interest at September 30, 2023 and December 31, 2022.

⁽²⁾ A majority of the first-lien residential mortgage loans securitized are initially classified as LHFS and accounted for under the fair value option. Gains recognized on these LHFS prior to securitization, which totaled \$17 million and \$34 million for the same periods in 2022, are not included in the table above.

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

First-lien Mortgage VIEs

						Residentia	II IVIO	rtgage								
								Non-a	gen	су						
	Age	ency		Pri	me			Subp	rim	е	Al	t-A		Commercia	al Mo	ortgage
(Dollars in millions)	Sep 30 2023		Dec 31 2022	Sep 30 2023		Dec 31 2022		Sep 30 2023		Dec 31 2022	Sep 30 2023		Dec 31 2022	Sep 30 2023		Dec 31 2022
Unconsolidated VIEs																
Maximum loss exposure (1)	\$ 8,280	\$	9,112	\$ 83	\$	91	\$	655	\$	735	\$ 9	\$	28	\$ 1,461	\$	1,594
On-balance sheet assets																
Senior securities:																
Trading account assets	\$ 284	\$	232	\$ 4	\$	3	\$	20	\$	25	\$ 7	\$	26	\$ 17	\$	91
Debt securities carried at fair value	2,482		3,027	_		_		342		410	_		_	_		_
Held-to-maturity securities	5,514		5,853	_		_		_		_	_		_	1,293		1,268
All other assets	_		_	2		3		22		25	2		2	45		101
Total retained positions	\$ 8,280	\$	9,112	\$ 6	\$	6	\$	384	\$	460	\$ 9	\$	28	\$ 1,355	\$	1,460
Principal balance outstanding (2)	\$ 76,572	\$	81,644	\$ 3,589	\$	3,973	\$	4,600	\$	5,034	\$ 10,650	\$	11,568	\$ 81,080	\$	85,101
Consolidated VIEs																
Maximum loss exposure (1)	\$ 1,914	\$	1,735	\$ _	\$	_	\$	_	\$	78	\$ _	\$	_	\$ _	\$	_
On-balance sheet assets																
Trading account assets	\$ 1,914	\$	1,735	\$ _	\$	_	\$	_	\$	78	\$ _	\$	_	\$ _	\$	_
Loans and leases, net	_		_	_		_		_		_	_		_	_		_
Total assets	\$ 1,914	\$	1,735	\$ _	\$	_	\$	_	\$	78	\$ _	\$	_	\$ _	\$	_
Total liabilities	\$ _	\$	_	\$ _	\$	_	\$	_	\$	_	\$ _	\$	_	\$ _	\$	_

Residential Mortgage

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, 2023 and December 31, 2022.

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

		Home I	Equit	ty ⁽¹⁾	Credit C		ı	Resecuritiz	atio	n Trusts	Municipal E	Bond	Trusts
(Dollars in millions)		Sep 30 2023		Dec 31 2022	Sep 30 2023	Dec 31 2022		Sep 30 2023		Dec 31 2022	Sep 30 2023		Dec 31 2022
Unconsolidated VIEs	_												
Maximum loss exposure	\$	_	\$	119	\$ _	\$ _	\$	4,683	\$	4,243	\$ 2,030	\$	2,537
On-balance sheet assets													
Securities (3):													
Trading account assets	\$	_	\$	_	\$ _	\$ _	\$	1,465	\$	456	\$ _	\$	_
Debt securities carried at fair value		_		1	_	_		916		1,259	_		_
Held-to-maturity securities		_		_	_	_		2,302		2,528	_		_
Total retained positions	\$	_	\$	1	\$ _	\$ _	\$	4,683	\$	4,243	\$ _	\$	
Total assets of VIEs	\$	264	\$	326	\$ _	\$ _	\$	18,187	\$	12,255	\$ 2,486	\$	3,016
Consolidated VIEs Maximum loss exposure	\$	13	\$	32	\$ 8,361	\$ 9,555	\$	119	\$	551	\$ 2,121	\$	
On-balance sheet assets													
Trading account assets	\$	_	\$	_	\$ _	\$ _	\$	291	\$	650	\$ 2,071	\$	_
Debt securities carried at fair value		_		_	_	_		_		_	50		_
Loans and leases		34		97	15,233	14,555		_		_	_		_
Allowance for loan and lease losses		7		12	(815)	(808)		_		_	_		_
All other assets		1		2	111	68		_		_	_		_
Total assets	\$	42	\$	111	\$ 14,529	\$ 13,815	\$	291	\$	650	\$ 2,121	\$	_
On-balance sheet liabilities													
Short-term borrowings	\$	_	\$	_	\$ _	\$ _	\$	_	\$	_	\$ 2,036	\$	_
Long-term debt		29		79	6,156	4,247		172		99	_		_
All other liabilities		_		_	12	13		_			_		
Total liabilities	\$	29	\$	79	\$ 6,168	\$ 4,260	\$	172	\$	99	\$ 2,036	\$	_

⁽¹⁾ For unconsolidated home equity loan VIEs, the maximum loss exposure includes outstanding trust certificates issued by trusts in rapid amortization, net of recorded reserves. For both consolidated and unconsolidated home equity loan VIEs, the maximum loss exposure excludes the reserve for representations and warranties obligations and corporate guarantees. For more information, see Note 10 - Commitments and Contingencies.

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

Home Equity Loans

The Corporation retains interests, primarily senior securities, in home equity securitization trusts to which it transferred home equity loans. In addition, the Corporation may be obligated to provide subordinate funding to the trusts during a rapid amortization event. This obligation is included in the maximum

loss exposure in the preceding table. The charges that will ultimately be recorded as a result of the rapid amortization events depend on the undrawn portion of the home equity lines of credit, performance of the loans, the amount of subsequent draws and the timing of related cash flows.

⁽¹⁾ Maximum loss exposure includes obligations under loss-sharing reinsurance and other arrangements for non-agency residential mortgage and commercial mortgage securitizations, but excludes the reserve for representations and warranties obligations and corporate guarantees and also excludes servicing advances and other servicing rights and obligations. For more information, see Note 10 - Commitments and Contingencies and Note 14 - Fair Value Measurements.

⁽²⁾ Principal balance outstanding includes loans where the Corporation was the transferor to securitization VIEs with which it has continuing involvement, which may include servicing the loans.

⁽²⁾ At September 30, 2023 and December 31, 2022, loans and leases in the consolidated credit card trust included \$3.6 billion and \$3.3 billion of seller's interest.

Credit Card and Automobile Loan Securitizations

The Corporation securitizes originated and purchased credit card and automobile loans as a source of financing. The loans are sold on a non-recourse basis to consolidated trusts. The securitizations are ongoing, whereas additional receivables will be funded into the trusts by either loan repayments or proceeds from securities issued to third parties, depending on the securitization structure. The Corporation's continuing involvement with the securitization trusts includes servicing the receivables and holding various subordinated interests, including an undivided seller's interest in the credit card receivables and owning certain retained interests.

At September 30, 2023 and 2022, the carrying values of the receivables in the trusts totaled \$15.2 billion and \$14.0 billion, which are included in loans and leases, and the carrying values of senior debt securities that were issued to third-party investors from the trusts totaled \$6.2 billion and \$3.0 billion, which are included in long-term debt.

Resecuritization Trusts

The Corporation transfers securities, typically MBS, into resecuritization VIEs generally 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 \$1.8 billion and \$7.6 billion of securities during the three and nine months ended September 30, 2023 compared to \$5.3 billion and \$19.5 billion for the same periods in 2022. Securities transferred into resecuritization VIEs were measured at fair value with changes

in fair value recorded in market making and similar activities prior to the resecuritization and, accordingly, no gain or loss on sale was recorded. During the three and nine months ended September 30, 2023 and 2022, resecuritization proceeds included securities with an initial fair value of \$1.1 billion and \$2.1 billion compared to \$670 million and \$2.4 billion, of which substantially all of the securities were classified as trading account assets for both periods. Substantially all of the trading account securities carried at fair value were categorized as Level 2 within the fair value hierarchy.

Municipal Bond Trusts

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

The Corporation's liquidity commitments to unconsolidated municipal bond trusts, including those for which the Corporation was transferor, totaled \$2.0 billion and \$2.5 billion at September 30, 2023 and December 31, 2022. The weighted-average remaining life of bonds held in the trusts at September 30, 2023 was 12.3 years. There were no significant write-downs or downgrades of assets or issuers during the nine months ended September 30, 2023 and 2022.

Other Variable Interest Entities

The table below summarizes select information related to other VIEs in which the Corporation held a variable interest at September 30, 2023 and December 31, 2022.

Other VIEs

	Con	solidated	Un	consolidated		Total	Co	onsolidated	Un	consolidated ⁽¹⁾	Total (1)
(Dollars in millions)			Septe	mber 30, 2023	}				Dec	ember 31, 2022	
Maximum loss exposure	\$	1,840	\$	47,375	\$	49,215	\$	2,286	\$	47,477	\$ 49,763
On-balance sheet assets											
Trading account assets	\$	378	\$	2,183	\$	2,561	\$	353	\$	2,187	\$ 2,540
Debt securities carried at fair value		_		125		125		_		473	473
Loans and leases		1,635		14,447		16,082		2,086		14,243	16,329
Allowance for loan and lease losses		(1)		(71)		(72)		(1)		(99)	(100)
All other assets		60		30,164		30,224		46		30,221	30,267
Total	\$	2,072	\$	46,848	\$	48,920	\$	2,484	\$	47,025	\$ 49,509
On-balance sheet liabilities											
Short-term borrowings	\$	23	\$	_	\$	23	\$	42	\$	_	\$ 42
Long-term debt		209		_		209		156		_	156
All other liabilities		_		7,104		7,104		_		7,318	7,318
Total	\$	232	\$	7,104	\$	7,336	\$	198	\$	7,318	\$ 7,516

⁽¹⁾ Prior period has been revised to include unconsolidated CLOs.

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 involvement in the VIE is limited to its loss exposure. The Corporation's maximum loss exposure to consolidated and unconsolidated customer VIEs totaled \$832 million and \$914 million at September 30, 2023 and December 31, 2022, 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. Total assets of the consolidated and unconsolidated VIEs were \$1.5 billion at both September 30, 2023 and December 31, 2022.

CDO and CLO VIEs

The Corporation holds investments in unconsolidated CDO and CLO VIEs, that hold diversified pools of fixed-income securities, typically corporate debt, ABS or non-investment grade corporate loans, which are funded by multiple tranches of debt instruments and equity securities issued by the VIEs. The VIEs are managed by third-party portfolio managers. The Corporation held \$16.2 billion and \$16.3 billion of loans and securities issued by CDO and CLO VIEs at September 30, 2023 and December 31, 2022. The Corporation's loss exposure is limited to its loan and debt security holdings and the notional amount of any derivatives to which the Corporation is a counterparty. The Corporation's maximum loss exposure to consolidated and unconsolidated CDOs and CLOs totaled \$16.3 billion at both September 30, 2023 and December 31, 2022, which is insignificant to the total assets of the VIEs.

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, 2023 and December 31, 2022, the Corporation's consolidated investment VIEs had total assets of \$471 million and \$854 million. The Corporation also held investments in unconsolidated VIEs with total assets of \$15.4 billion and \$12.2 billion at September 30, 2023 and December 31, 2022. The Corporation's maximum loss exposure associated with both consolidated and unconsolidated investment VIEs totaled \$1.8 billion and \$2.4 billion at September 30, 2023 and December 31, 2022 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 \$1.2 billion at both September 30, 2023 and December 31, 2022. The trusts hold long-lived equipment such as rail cars, power generation and distribution equipment, and commercial aircraft. The Corporation structures the trusts and holds a significant residual interest. The net investment represents the Corporation's maximum loss exposure to the trusts in the unlikely event that the leveraged lease investments become worthless. Debt issued by the leveraged lease trusts is non-recourse to the Corporation.

Tax Credit VIEs

The Corporation holds equity investments in unconsolidated limited partnerships and similar entities that construct, own and operate affordable housing, renewable energy and certain other projects. The total assets of these unconsolidated tax credit VIEs were \$81.7 billion and \$74.8 billion as of September 30, 2023 and December 31, 2022. An unrelated third party is typically the general partner or managing member and has control over the significant activities of the VIE. As an investor, tax credits associated with the investments in these entities are allocated to the Corporation, as provided by the U.S. Internal Revenue Code and related regulations, and are recognized as income tax benefits in the Corporation's Consolidated Statement of Income in the year they are earned, which varies based on the type of investments. Tax credits from

environmental, social and governance investments in affordable housing are recognized ratably over a term of up to 10 years, and tax credits from renewable energy investments are recognized either at inception for transactions electing Investment Tax Credits (ITCs) or as energy is produced for transactions electing Production Tax Credits (PTCs), which is generally up to a 10-year time period. The volume and types of investments held by the Corporation will influence the amount of tax credits recognized each period.

The Corporation's equity investments in affordable housing and other projects totaled \$14.9 billion and \$14.7 billion at September 30, 2023 and December 31, 2022, which included unfunded capital contributions of \$6.8 billion and \$6.9 billion and are probable to be paid over the next five years. The Corporation may 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. During the three and nine months ended September 30, 2023, the Corporation recognized tax credits and other tax benefits related to affordable housing and other tax credit equity investments of \$526 million and \$1.6 billion compared to \$457 million and \$1.3 billion for the same periods in 2022, and reported pretax losses in other income of \$379 million and \$1.1 billion compared to \$350 million and \$1.0 billion for the same periods in 2022. The Corporation's equity investments in renewable energy totaled \$13.9 billion at both September 30, 2023 and December 31, 2022. In addition, the Corporation had unfunded capital contributions for renewable investments of \$6.5 billion and \$1.9 billion at September 30, 2023 and December 31, 2022, which are contingent on various conditions precedent to funding over the next two years. The Corporation's risk of loss is generally mitigated by policies requiring the project to qualify for the expected tax credits prior to making its investment. During the three and nine months ended September 30, 2023, the Corporation recognized tax credits and other tax benefits related to renewable energy equity investments of \$1.3 billion and \$3.4 billion compared to \$527 million and \$2.0 billion for the same periods in 2022 and reported pretax losses in other income of \$849 million and \$2.0 billion compared to \$337 million and \$1.4 billion for the same periods in 2022. The Corporation may also enter into power purchase agreements with renewable energy tax credit entities. The maximum loss exposure for tax credit VIEs was \$28.8 billion at both September 30, 2023 and December 31, 2022.

NOTE 7 Goodwill and Intangible Assets

Goodwill

The table below presents goodwill balances by business segment at September 30, 2023 and December 31, 2022. The reporting units utilized for goodwill impairment testing are the operating segments or one level below.

Goodwill

(Dollars in millions)	Sep	tember 30 2023	De	ecember 31 2022
Consumer Banking	\$	30,137	\$	30,137
Global Wealth & Investment Management		9,677		9,677
Global Banking		24,026		24,026
Global Markets		5,181		5,182
Total goodwill	\$	69,021	\$	69,022

Intangible Assets

At September 30, 2023 and December 31, 2022, the net carrying value of intangible assets was \$2.0 billion and \$2.1 billion. At both September 30, 2023 and December 31, 2022, intangible assets included \$1.6 billion of intangible assets associated with trade names, substantially all of which had an indefinite life and, accordingly, are not being amortized. Amortization of intangibles expense was \$20 million for both the three months ended September 30, 2023 and 2022 and \$59 million for both the nine months ended September 30, 2023 and 2022.

NOTE 8 Leases

The Corporation enters into both lessor and lessee arrangements. For more information on lease accounting, see Note 1 – Summary of Significant Accounting Principles and Note 8 – Leases to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K. For more information on lease financing receivables, see Note 5 – Outstanding Loans and Leases and Allowance for Credit Losses.

Lessor Arrangements

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

The table below presents the net investment in sales-type and direct financing leases at September 30, 2023 and December 31, 2022.

Net Investment (1)

(Dollars in millions)	Sep	tember 30 2023	De	cember 31 2022
Lease receivables	\$	15,580	\$	15,123
Unguaranteed residuals		2,291		2,143
Total net investment in sales-type and direct				
financing leases	\$	17,871	\$	17,266

¹⁾ In certain cases, the Corporation obtains third-party residual value insurance to reduce its residual asset risk. The carrying value of residual assets with third-party residual value insurance for at least a portion of the asset value was \$6.6 billion and \$6.5 billion at September 30, 2023 and December 31, 2022.

The table below presents lease income for the three and nine months ended September 30, 2023 and 2022.

Lease Income

	Th	ree Mor Septen			Ni		onths Ende ember 30		
(Dollars in millions)	2	023	2	022	2	023	2	022	
Sales-type and direct financing leases	\$	206	\$	149	\$	559	\$	428	
Operating leases		233		241		705		704	
Total lease income	\$	439	\$	390	\$	1,264	\$	1,132	

Lessee Arrangements

The Corporation's lessee arrangements predominantly consist of operating leases for premises and equipment; the Corporation's financing leases are not significant.

The table below provides information on the right-of-use assets and lease liabilities at September 30, 2023 and December 31, 2022.

Lessee Arrangements

	Sept	ember 30	De	cember 31
(Dollars in millions)		2023		2022
Right-of-use asset	\$	9,187	\$	9,755
Lease liabilities		9,799		10,359

NOTE 9 Securities Financing Agreements, Collateral and Restricted Cash

The Corporation enters into securities financing agreements which include securities borrowed or purchased under agreements to resell and securities loaned or sold under agreements to repurchase. These financing agreements (also referred to as "matched-book transactions") are to accommodate customers, obtain securities to cover short positions and finance inventory positions. The Corporation elects to account for certain securities financing agreements under the fair value option. For more information on the fair value option, see *Note 15 - Fair Value Option*.

Offsetting of Securities Financing Agreements

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, 2023 and December 31, 2022. 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*. For more information on the securities financing agreements and the offsetting of securities financing transactions, see *Note 10 - Securities Financing Agreements*, *Short-term Borrowings, Collateral and Restricted Cash* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

Securities Financing Agreements

	Gross Assets/ Liabilities (1)		ounts Offset	Net Balance Sheet Amount		Financial Instruments ⁽²⁾		let Assets/ Liabilities
(Dollars in millions)			S	epte	mber 30, 202	3		
Securities borrowed or purchased under agreements to resell (3)	\$ 651,337	\$	(342,088)	\$	309,249	\$	(283,835)	\$ 25,414
Securities loaned or sold under agreements to repurchase	\$ 642,791	\$	(342,088)	\$	300,703	\$	(285,522)	\$ 15,181
Other (4)	8,304		_		8,304		(8,304)	_
Total	\$ 651,095	\$	(342,088)	\$	309,007	\$	(293,826)	\$ 15,181
			С	ece)	mber 31, 2022	2		
Securities borrowed or purchased under agreements to resell (3)	\$ 597,847	\$	(330,273)	\$	267,574	\$	(240,120)	\$ 27,454
Securities loaned or sold under agreements to repurchase	\$ 525,908	\$	(330,273)	\$	195,635	\$	(183,265)	\$ 12,370
Other (4)	8,427		_		8,427		(8,427)	_
Total	\$ 534,335	\$	(330,273)	\$	204,062	\$	(191,692)	\$ 12,370

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

Repurchase Agreements and Securities Loaned Transactions Accounted for as Secured Borrowings

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

agreement prior to maturity at the option of the Corporation or the counterparty. Such agreements are included in the table below based on the remaining contractual term to maturity. For more information on collateral requirements, see *Note 10 – Securities Financing Agreements, Short-term Borrowings, Collateral and Restricted Cash* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

Remaining Contractual Maturity

	Overnight and Continuous 3		30 Days or Less		After 30 Days Irough 90 Days	Greater than 90 Days ⁽¹⁾			Total
(Dollars in millions)				Sept	tember 30, 2023				
Securities sold under agreements to repurchase	\$ 257,669	\$	167,947	\$	78,648	\$	58,853	\$	563,117
Securities loaned	74,247		152		971		4,304		79,674
Other	8,304		_		_		_		8,304
Total	\$ 340,220	\$	168,099	\$	79,619	\$	63,157	\$	651,095
				Dec	ember 31, 2022				
Securities sold under agreements to repurchase	\$ 200,087	\$	181,632	\$	41,666	\$	30,107	\$	453,492
Securities loaned	66,909		288		1,139		4,080		72,416
Other	8,427		_		_		_		8,427
Total	\$ 275,423	\$	181,920	\$	42,805	\$	34,187	\$	534,335

⁽¹⁾ No agreements have maturities greater than four years.

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

⁽³⁾ Excludes repurchase activity of \$8.6 billion and \$8.7 billion reported in loans and leases on the Consolidated Balance Sheet at September 30, 2023 and December 31, 2022.

⁽⁴⁾ Balance is reported in accrued expenses and other liabilities on the Consolidated Balance Sheet and relates to transactions where the Corporation acts as the lender in a securities lending agreement and receives securities that can be pledged as collateral or sold. In these transactions, the Corporation recognizes an asset at fair value, representing the securities received, and a liability, representing the obligation to return those securities.

Class of Collateral Pledged

	Unde	urities Sold r Agreements Repurchase		Securities Loaned		Other		Total				
(Dollars in millions)	September 30, 2023											
U.S. government and agency securities	\$	310,064	\$	_	\$	20	\$	310,084				
Corporate securities, trading loans and other		20,488		778		7		21,273				
Equity securities		7,410		78,896		8,260		94,566				
Non-U.S. sovereign debt		220,382		_		17		220,399				
Mortgage trading loans and ABS		4,773		_		_		4,773				
Total	\$	563,117	\$	79,674	\$	8,304	\$	651,095				
				December	r 31, 2	2022						
U.S. government and agency securities	\$	193,005	\$	18	\$	_	\$	193,023				
Corporate securities, trading loans and other		14,345		2,896		317		17,558				
Equity securities		10,249		69,432		8,110		87,791				
Non-U.S. sovereign debt		232,171		70		_		232,241				
Mortgage trading loans and ABS		3,722		_		_		3,722				
Total	\$	453,492	\$	72,416	\$	8,427	\$	534,335				

Collateral

The Corporation accepts securities and loans as collateral that it is permitted by contract or practice to sell or repledge. At September 30, 2023 and December 31, 2022, the fair value of this collateral was \$852.7 billion and \$827.6 billion, of which \$820.9 billion and \$764.1 billion was sold or repledged. The primary source of this collateral is securities borrowed or purchased under agreements to resell. For more information on collateral, see Note 10 – Securities Financing Agreements, Shortterm Borrowings, Collateral and Restricted Cash to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

Restricted Cash

At September 30, 2023 and December 31, 2022, the Corporation held restricted cash included within cash and cash equivalents on the Consolidated Balance Sheet of \$6.1 billion and \$7.6 billion, predominantly related to cash segregated in compliance with securities regulations and cash held on deposit with 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 2022 Annual Report on Form 10-K.

Credit Extension Commitments

The Corporation enters into commitments to extend credit such as loan commitments, standby letters of credit (SBLCs) and commercial letters of credit to meet the financing needs of its customers. The following table includes the notional amount of unfunded legally binding lending commitments net of amounts distributed (i.e., syndicated or participated) to other financial institutions. The distributed amounts were \$10.6 billion and \$10.4 billion at September 30, 2023 and December 31, 2022. The carrying value of the Corporation's credit extension commitments at September 30, 2023 and December 31, 2022, excluding commitments accounted for under the fair value option, was \$1.4 billion and \$1.6 billion, which predominantly related to the reserve for unfunded lending commitments. 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 includes the notional amount of commitments of \$1.8 billion and \$3.0 billion at September 30, 2023 and December 31, 2022 that are accounted for under the fair value option. However, the table excludes the cumulative net fair value for these commitments of \$62 million and \$110 million at September 30, 2023 and December 31, 2022, 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		xpire After One Year Through Three Years	E	xpire After Three Years Through Five Years	Expire After Five Years			Total
(Dollars in millions)				Se	ptember 30, 2023				
Notional amount of credit extension commitments									
Loan commitments (1)	\$ 127,520	\$	182,325	\$	206,569	\$	14,204	\$	530,618
Home equity lines of credit	2,328		8,975		11,403		22,273		44,979
Standby letters of credit and financial guarantees (2)	21,131		9,821		2,691		505		34,148
Letters of credit	888		32		257		25		1,202
Other commitments (3)	5		46		118		1,056		1,225
Legally binding commitments	151,872		201,199		221,038		38,063		612,172
Credit card lines (4)	440,277		_		_		_		440,277
Total credit extension commitments	\$ 592,149	\$	201,199	\$	221,038	\$	38,063	\$	1,052,449
				De	ecember 31, 2022				
Notional amount of credit extension commitments									
Loan commitments (1)	\$ 113,962	\$	162,890	\$	221,374	\$	13,667	\$	511,893
Home equity lines of credit	1,479		7,230		11,578		22,154		42,441
Standby letters of credit and financial guarantees (2)	22,565		9,237		2,787		628		35,217
Letters of credit	853		46		52		49		1,000
Other commitments (3)	5		93		71		1,103		1,272
Legally binding commitments	138,864		179,496		235,862		37,601		591,823
Credit card lines (4)	419,144		_		_		_		419,144
Total credit extension commitments	\$ 558,008	\$	179,496	\$	235,862	\$	37,601	\$	1,010,967

⁽¹⁾ At September 30, 2023 and December 31, 2022, \$3.7 billion and \$2.6 billion of these loan commitments were held in the form of a security.

Other Commitments

At September 30, 2023 and December 31, 2022, the Corporation had commitments to purchase loans (e.g., residential mortgage and commercial real estate) of \$788 million and \$636 million, which upon settlement will be included in trading account assets, loans or LHFS, and commitments to purchase commercial loans of \$452 million and \$294 million, which upon settlement will be included in trading account assets.

At September 30, 2023 and December 31, 2022, the Corporation had commitments to enter into resale and forward-dated resale and securities borrowing agreements of \$128.3 billion and \$92.0 billion, and commitments to enter into forward-dated repurchase and securities lending agreements of \$73.2 billion and \$57.8 billion. A significant portion of these commitments will expire within the next 12 months.

At September 30, 2023 and December 31, 2022, the Corporation had a commitment to originate or purchase up to \$4.0 billion and \$3.7 billion on a rolling 12-month basis, of auto loans and leases from a strategic partner. This commitment extends through November 2026 and can be terminated with 12 months prior notice.

At September 30, 2023 and December 31, 2022, the Corporation had unfunded equity investment commitments of \$900 million and \$571 million.

As a Federal Reserve member bank, the Corporation is required to subscribe to a certain amount of shares issued by its Federal Reserve district bank, which pays cumulative dividends at a prescribed rate. As of September 30, 2023 and December 31, 2022, the Corporation paid \$5.4 billion for half of its subscribed shares, with the remaining half subject to call by the Federal Reserve district bank board, which the Corporation believes is remote.

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, 2023 and December 31, 2022, the notional amount of these guarantees totaled \$4.3 billion. At both September 30, 2023 and December 31, 2022, the Corporation's maximum exposure related to these guarantees totaled \$632 million, with estimated maturity dates between 2033 and 2039.

Merchant Services

The Corporation in its role as merchant acquirer or as a sponsor of other merchant acquirers may be held liable for any reversed charges that cannot be collected from the merchants due to, among other things, merchant fraud or insolvency. If charges are properly reversed after a purchase and cannot be collected from either the merchants or merchant acquirers, the Corporation may be held liable for these reversed charges. The ability to reverse a charge is primarily governed by the applicable payment network rules and regulations, which include, but are not limited to, the type of charge, type of payment used and time limits. The total amount of transactions subject to reversal under payment network rules and regulations processed for the preceding six-month period, which was approximately \$412 billion, is an estimate of the Corporation's maximum potential exposure as of September 30, 2023. The Corporation's risk in this area primarily relates to circumstances where a cardholder has purchased goods or services for future delivery. The Corporation mitigates this risk by requiring cash deposits, guarantees, letters of credit or other types of collateral from certain merchants. The Corporation's reserves for contingent losses and the losses incurred related to the merchant processing activity were not significant.

⁽²⁾ 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 \$23.6 billion and \$9.8 billion at September 30, 2023, and \$25.1 billion and \$9.5 billion at December 31, 2022. Amounts in the table include consumer SBLCs of \$714 million and \$575 million at September 30, 2023 and December 31, 2022.

Primarily includes second-loss positions on lease-end residual value guarantees.

Includes business card unused lines of credit

Representations and Warranties Obligations and Corporate Guarantees

For more information on representations and warranties obligations and corporate guarantees, see *Note 12 – Commitments and Contingencies* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

The reserve for representations and warranties obligations and corporate guarantees was \$621 million and \$612 million at September 30, 2023 and December 31, 2022 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 Corporation's best estimate of probable incurred losses, is based on its experience in previous negotiations, and is subject to judgment, a variety of assumptions, and known or unknown uncertainties. Future representations and warranties losses may occur in excess of the amounts recorded for these exposures; however, the Corporation does not expect such amounts to be material to the Corporation's financial condition and liquidity. See Litigation and Regulatory Matters below for the Corporation's combined range of possible loss in excess of the reserve for representations and warranties and the accrued liability for litigation.

Fixed Income Clearing Corporation Sponsored Member Repo Program

The Corporation acts as a sponsoring member in a repo program whereby the Corporation clears certain eligible resale and repurchase agreements through the Government Securities Division of the Fixed Income Clearing Corporation on behalf of clients that are sponsored members in accordance with the Fixed Income Clearing Corporation's rules. As part of this program, the Corporation guarantees the payment and performance of its sponsored members to the Fixed Income Clearing Corporation. The Corporation's guarantee obligation is secured by a security interest in cash or high-quality securities collateral placed by clients with the clearinghouse and therefore, the potential for the Corporation to incur significant losses under this arrangement is remote. The Corporation's maximum potential exposure, without taking into consideration the related collateral, was \$43.6 billion and \$59.6 billion at September 30, 2023 and December 31, 2022.

Other 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.

Guarantees of Certain Long-term Debt

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

Other Contingencies

On May 11, 2023, the Federal Deposit Insurance Corporation (FDIC) issued a proposed rule that would impose a special

assessment to recover the loss to the Deposit Insurance Fund arising from the protection of uninsured depositors of Silicon Valley Bank and Signature Bank associated with their closures, and the systemic risk determination announced by the FDIC on March 12, 2023. While the timing and amount of any expense recognition are unknown until the proposed rule is finalized, if the final rule is issued as proposed, the estimated impact of the special assessment on the Corporation would be

a noninterest expense of approximately \$1.9 billion that would be recognized upon finalization of the rule, which could occur in the fourth quarter of 2023.

Litigation and Regulatory Matters

The following disclosures supplement the disclosure in *Note 12* – *Commitments and Contingencies* to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K (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 the eventual outcome of the pending matters, timing of the ultimate resolution of these matters, or eventual loss, fines or penalties related to each pending matter.

As a matter develops, the Corporation, in conjunction with any outside counsel handling the matter, evaluates whether such matter presents a loss contingency that is probable and estimable, and, for the matters disclosed below and in the prior commitments and contingencies disclosure, whether a loss in excess of any accrued liability is reasonably possible in future periods. Once the loss contingency is deemed to be both probable and estimable, the Corporation will establish an accrued liability and record a corresponding amount of litigationrelated expense. The Corporation continues to monitor the matter for further developments that could affect the amount of the accrued liability that has been previously established. Excluding expenses of internal and external legal service providers, litigation and regulatory investigation-related expense of \$76 million and \$442 million was recognized for the three and nine months ended September 30, 2023 compared to \$507 million and \$1.1 billion for the same periods in 2022.

For any matter disclosed in this Note and in the prior commitments and contingencies disclosure for which a loss in future periods is reasonably possible and estimable (whether in excess of an accrued liability or where there is no accrued liability) and for representations and warranties exposures, the Corporation's estimated range of possible loss is \$0 to \$0.8 billion in excess of the accrued liability, if any, as of September 30, 2023.

The accrued liability and estimated range of possible loss are based upon currently available information and subject to significant judgment, a variety of assumptions and known and unknown uncertainties. The matters underlying the accrued liability and estimated range of possible loss are unpredictable and may change from time to time, and actual losses may vary significantly from the current estimate and accrual. The estimated range of possible loss does not represent the Corporation's maximum loss exposure.

Information is provided below and in the prior commitments and contingencies disclosure regarding the nature of the litigation and, where specified, associated claimed damages.

Based on current knowledge, and taking into account accrued liabilities, management does not believe that loss contingencies arising from pending matters, including the matters described below and in the prior commitments and contingencies disclosure, will have a material adverse effect on the consolidated financial condition or liquidity of the Corporation. However, in light of the significant judgment, variety of assumptions and uncertainties involved in those matters, some of which are beyond the Corporation's control, and the very large or indeterminate damages sought in some of those matters, an adverse outcome in one or more of those matters could be material to the Corporation's business or results of operations for any particular reporting period, or cause significant reputational harm.

Deposit Insurance Assessment

On April 10, 2023, the magistrate judge issued a report and recommendation (the Report) for resolving the parties' pending summary judgment motions. The Report recommends granting the FDIC motion for summary judgment on BANA's statutory liability for the unpaid assessments, subject to BANA's statute of limitations defenses to assessments for the quarters ended March 31, 2012 through March 31, 2013, on which the Report recommends that relevant issues should be resolved at trial. The Report also recommends denying BANA's counterclaims challenging the adoption of the relevant assessment regulations and granting BANA's motion for summary judgment on the FDIC's claims for unjust enrichment and disgorgement. The Report has been submitted to the district court judge for consideration, and the parties have filed objections to the recommendations in the Report.

Representment Non-sufficient Fund Fees

On July 11, 2023, it was announced that BANA agreed to settle two separate proceedings with the Office of the Comptroller of the Currency (OCC) and Consumer Financial Protection Bureau (CFPB) related to BANA's assessing overdraft or insufficient funds fees each time a merchant resubmitted a transaction or check for payment after it had been declined due to insufficient funds (Representment Fees). Without admitting or denying the findings, BANA consented to orders requiring it to pay penalties of \$60 million to each of the OCC and CFPB. Under the CFPB Consent Order, among other things, BANA also consented to refund at least \$80 million to customers who were assessed Representment Fees between September 1, 2018 to February 18, 2022.

Credit Card Sales and Marketing Practices

On July 11, 2023, it was announced that BANA agreed to a settlement with the CFPB related to online advertisements concerning bonuses linked to rewards credit cards and failure to provide those bonuses to certain consumers, and applying for and opening credit cards for consumers without their consent and obtaining credit reports for those consumers. Without admitting or denying the findings, BANA agreed to the entry of a Consent Order requiring payment of a \$30 million penalty and certain undertakings concerning consumer redress.

Unemployment Insurance Prepaid Cards

BANA has been named as a defendant in a number of putative class action, mass action, and individual lawsuits in multiple states related to its administration of prepaid debit cards to distribute unemployment and other state benefits. These lawsuits generally assert claims for monetary damages and injunctive relief. Class action and mass action lawsuits related to the California program, the largest program administered by BANA measured by total benefits and number of participants, have been consolidated into a multidistrict litigation (MDL) in the U.S. District Court for the Southern District of California. On May 25, 2023, the court dismissed certain of the claims in the MDL while allowing others to proceed, and plaintiffs subsequently filed an amended complaint. BANA filed a partial motion to dismiss certain of the remaining claims in the amended complaint in the MDL, which is currently pending.

NOTE 11 Shareholders' Equity

Common Stock

Declared Quarterly Cash Dividends on Common Stock (1)

Declaration Date	Record Date	Payment Date		vidend r Share
Deciaration Date	Record Date	Payment Date	Pei	Share
October 18, 2023	December 1, 2023	December 29, 2023	\$	0.24
July 19, 2023	September 1, 2023	September 29, 2023		0.24
April 26, 2023	June 2, 2023	June 30, 2023		0.22
February 1, 2023	March 3, 2023	March 31, 2023		0.22

⁽¹⁾ In 2023, and through October 31, 2023.

During the three and nine months ended September 30, 2023, the Corporation repurchased and retired 33 million and 119 million shares of common stock, which reduced shareholders' equity by \$1.0 billion and \$3.8 billion.

During the nine months ended September 30, 2023, in connection with employee stock plans, the Corporation issued 73 million shares of its common stock and, to satisfy tax withholding obligations, repurchased 28 million shares of its common stock. At September 30, 2023, the Corporation had reserved 496 million unissued shares of common stock for future issuances under employee stock plans, convertible notes and preferred stock.

On October 18, 2023, the Board of Directors declared a quarterly common stock dividend of \$0.24 per share.

Preferred Stock

During the three months ended September 30, 2023, June 30, 2023 and March 31, 2023, the Corporation declared \$531 million, \$306 million and \$505 million of cash dividends on preferred stock, or a total of \$1.3 billion for the nine months ended September 30, 2023. For more 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 2022 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, 2023 and 2022.

(Dollars in millions)	Dek	ot Securities	 ebit Valuation Adjustments	Derivatives	E	Employee Benefit Plans	Foreign Currency	Total
Balance, December 31, 2021	\$	3,045	\$ (1,636)	\$ (1,880)	\$	(3,642)	\$ (991)	\$ (5,104)
Net change		(6,381)	1,298	(10,890)		97	(47)	(15,923)
Balance, September 30, 2022	\$	(3,336)	\$ (338)	\$ (12,770)	\$	(3,545)	\$ (1,038)	\$ (21,027)
Balance, December 31, 2022	\$	(2,983)	\$ (881)	\$ (11,935)	\$	(4,309)	\$ (1,048)	\$ (21,156)
Net change		81	(419)	(317)		25	(6)	(636)
Balance, September 30, 2023	\$	(2,902)	\$ (1,300)	\$ (12,252)	\$	(4,284)	\$ (1,054)	\$ (21,792)

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, 2023 and 2022.

	Preta	ıx	Tax effect		After- tax	Pretax	Tax effect	After- tax
			Nine	e Mor	ths End	ed Septembe	r 30	
(Dollars in millions)			2023				2022	
Debt securities:								
Net increase (decrease) in fair value	\$ (3	(60	\$ 84	\$	(222)	\$ (8,417)	\$ 2,064	\$ (6,353)
Net realized (gains) losses reclassified into earnings (1)	4	04	(101)		303	(37)	9	(28)
Net change		98	(17)		81	(8,454)	2,073	(6,381)
Debit valuation adjustments:								
Net increase (decrease) in fair value	(5	60)	136		(424)	1,698	(411)	1,287
Net realized (gains) losses reclassified into earnings (1)		7	(2)		5	14	(3)	11
Net change	(5	53)	134		(419)	1,712	(414)	1,298
Derivatives:								
Net increase (decrease) in fair value	(1,0	27)	261		(766)	(14,681)	3,673	(11,008)
Reclassifications into earnings:								
Net interest income	6	16	(153)		463	182	(46)	136
Compensation and benefits expense	((18)	4		(14)	(24)	6	(18)
Net realized (gains) losses reclassified into earnings	5	98	(149)		449	158	(40)	118
Net change	(4	29)	112		(317)	(14,523)	3,633	(10,890)
Employee benefit plans:								
Net actuarial losses and other reclassified into earnings (2)		36	(11)		25	135	(38)	97
Net change		36	(11)		25	135	(38)	97
Foreign currency:								
Net increase (decrease) in fair value		80	(75)		5	726	(774)	(48)
Net realized (gains) losses reclassified into earnings (1)	((44)	33		(11)	_	1	1
Net change		36	(42)		(6)	726	(773)	(47)
Total other comprehensive income (loss)	\$ (8	12)	\$ 176	\$	(636)	\$(20,404)	\$ 4,481	\$(15,923)

⁽¹⁾ Reclassifications of pretax debt securities, DVA and foreign currency (gains) losses are recorded in other income in the Consolidated Statement of Income.
(2) Reclassifications of pretax employee benefit plan costs are recorded in other general operating expense 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, 2023 and 2022 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 2022 Annual Report on Form 10-K.

	Three Mor Septen	Nine Months Ended September 30				
(In millions, except per share information)	2023	2022	2023		2022	
Earnings per common share						
Net income	\$ 7,802	\$ 7,082	\$ 23,371	\$	20,396	
Preferred stock dividends	(532)	(503)	(1,343)		(1,285)	
Net income applicable to common shareholders	\$ 7,270	\$ 6,579	\$ 22,028	\$	19,111	
Average common shares issued and outstanding	8,017.1	8,107.7	8,041.3		8,122.2	
Earnings per common share	\$ 0.91	\$ 0.81	\$ 2.74	\$	2.35	
Diluted earnings per common share						
Net income applicable to common shareholders	\$ 7,270	\$ 6,579	\$ 22,028	\$	19,111	
Add preferred stock dividends due to assumed conversions	_	_	167		_	
Net income allocated to common shareholders	\$ 7,270	\$ 6,579	\$ 22,195	\$	19,111	
Average common shares issued and outstanding	8,017.1	8,107.7	8,041.3		8,122.2	
Dilutive potential common shares (1)	58.8	53.1	112.1		51.1	
Total diluted average common shares issued and outstanding	8,075.9	8,160.8	8,153.4		8,173.3	
Diluted earnings per common share	\$ 0.90	\$ 0.81	\$ 2.72	\$	2.34	

⁽¹⁾ Includes incremental dilutive shares from preferred stock, restricted stock units, restricted stock and warrants.

For the nine months ended September 30, 2023, 62 million average dilutive potential common shares associated with the Series L preferred stock were included in the diluted share count under the "if-converted" method, whereas they were antidilutive for the three months ended September 30, 2023 and the three and nine months ended September 30, 2022.

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 fair value hierarchy classifications on a quarterly basis. Transfers into or out of fair value hierarchy classifications are made if the significant inputs used in the financial models measuring the fair values of the assets and liabilities become unobservable or observable in the current

marketplace. During the nine months ended September 30, 2023, there were no changes to valuation approaches or techniques that had, or are expected to have, a material impact on the Corporation's consolidated financial position or results of operations.

For more information regarding the fair value hierarchy, how the Corporation measures fair value and valuation techniques, see Note 1 – Summary of Significant Accounting Principles and Note 20 – Fair Value Measurements to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K. The Corporation accounts for certain financial instruments under the fair value option. For more information, see Note 15 – Fair Value Option.

Recurring Fair Value

Assets and liabilities carried at fair value on a recurring basis at September 30, 2023 and December 31, 2022, including financial instruments that the Corporation accounts for under the fair value option, are summarized in the following tables.

				Sept	tember 30, 2023	1	
	Fa	air Va	lue Measuremer	nts			
						Netting	Assets/Liabilities
(Dollars in millions)	Level 1		Level 2		Level 3	Adjustments (1)	at Fair Value
Assets							
Time deposits placed and other short-term investments	\$ 1,129	\$	_	\$	_	\$	\$ 1,129
Federal funds sold and securities borrowed or purchased under							
agreements to resell	_		414,435		_	(244,103)	170,332
Trading account assets:							
U.S. Treasury and government agencies	67,333		221			_	67,554
Corporate securities, trading loans and other			44,553		2,156	_	46,709
Equity securities	65,627		39,093		178	_	104,898
Non-U.S. sovereign debt	11,043		26,496		366	_	37,905
Mortgage trading loans, MBS and ABS: U.S. government-sponsored agency guaranteed			38,520		9		38,529
Mortgage trading loans, ABS and other MBS	_		9,614		1,200	_	10,814
Total trading account assets (2)	144,003		158,497		3,909	_	306,409
Derivative assets	15,908		365,554		4,620	(338,618)	47,464
AFS debt securities:	400 700		000				400.000
U.S. Treasury and government agencies	102,738		898		_	_	103,636
Mortgage-backed securities:			00 504				00 504
Agency Agency-collateralized mortgage obligations	_		20,504 1,698		_	_	20,504
Non-agency residential	_		1,698		 278	_	1,698 387
Commercial	_		6.741		218	_	387 6.741
Non-U.S. securities	— 67		18,699		106	_	18,872
Other taxable securities			3,179		100	_	3.179
Tax-exempt securities			10,542		 51	_	10,593
Total AFS debt securities	102,805		62,370		435	<u>_</u>	165,610
Other debt securities carried at fair value:	102,000		02,510		400		100,010
U.S. Treasury and government agencies	1,058		_		_	_	1,058
Non-agency residential MBS	_,,,,,		213		70	_	283
Non-U.S. and other securities	1.862		6,727		_	_	8.589
Total other debt securities carried at fair value	2,920		6,940		70	_	9,930
Loans and leases	´ —		4,143		107	_	4,250
Loans held-for-sale	_		1,436		171	_	1,607
Other assets (3)	5,609		1,723		1,726	_	9,058
Total assets (4)	\$ 272,374	\$	1,015,098	\$	11,038	\$ (582,721)	\$ 715,789
Liabilities	 		_,,		,	+ (,)	+ 1==,1==
Interest-bearing deposits in U.S. offices	\$ _	\$	404	\$	_	s —	\$ 404
Federal funds purchased and securities loaned or sold under				·		·	·
agreements to repurchase	_		453,940		_	(244,103)	209,837
Trading account liabilities:			.55,5 .5			(= : :,===)	200,001
U.S. Treasury and government agencies	20,799		2		_	_	20,801
Equity securities	47,649		5,590		12	_	53,251
Non-U.S. sovereign debt	12,614		8,568		_	_	21,182
Corporate securities and other	_		7,514		72	_	7,586
Total trading account liabilities	81,062		21,674		84	_	102,820
Derivative liabilities	15,822		355,436		9,080	(339,483)	40,855
Short-term borrowings	_		4,035		11		4,046
Accrued expenses and other liabilities	6,991		3,015		5	_	10,011
Long-term debt	_		38,803		640	_	39,443
Total liabilities (4)	\$ 103,875	\$	877,307	\$	9,820	\$ (583,586)	\$ 407,416

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

| Includes securities with a fair value of \$25.3 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. Trading account assets also includes certain commodities inventory of \$340 million that is accounted for at the lower of cost or net realizable value, which is the current selling price less any costs to sell.

| Includes MSRs, which are classified as Level 3 assets, of \$1.0 billion.

⁽⁴⁾ Total recurring Level 3 assets were 0.35 percent of total consolidated assets, and total recurring Level 3 liabilities were 0.34 percent of total consolidated liabilities.

				Dec	ember 31, 202	2			
	F	air Va	lue Measureme	ents		_			
							Netting	As	sets/Liabilities
(Dollars in millions)	 Level 1		Level 2		Level 3	Adju	stments (1)		at Fair Value
Assets	000					•			000
Time deposits placed and other short-term investments	\$ 868	\$	_	\$	_	\$		\$	868
Federal funds sold and securities borrowed or purchased under agreements to resell (2)	_		146,999		_		_		146,999
Trading account assets:									
U.S. Treasury and government agencies	58,894		212		_				59,106
Corporate securities, trading loans and other			46,897		2,384		_		49,281
Equity securities	77,868		35,065		145		_		113,078
Non-U.S. sovereign debt	7,392		26,306		518		_		34,216
Mortgage trading loans, MBS and ABS:									
U.S. government-sponsored agency guaranteed	_		28,563		34		_		28,597
Mortgage trading loans, ABS and other MBS	_		10,312		1,518		_		11,830
Total trading account assets (3)	144,154		147,355		4,599				296,108
Derivative assets AFS debt securities:	14,775		380,380		3,213		(349,726)		48,642
U.S. Treasury and government agencies Mortgage-backed securities:	158,102		920		_		_		159,022
Agency	_		23,442		_		_		23,442
Agency-collateralized mortgage obligations	_		2,221		_		_		2,221
Non-agency residential	_		128		258		_		386
Commercial	_		6,407		_		_		6,407
Non-U.S. securities	_		13,212		195		_		13,407
Other taxable securities	_		4,645		_		_		4,645
Tax-exempt securities	_		11,207		51		_		11,258
Total AFS debt securities	158,102		62,182		504		_		220,788
Other debt securities carried at fair value:									
U.S. Treasury and government agencies	561		_		_				561
Non-agency residential MBS	_		248		119				367
Non-U.S. and other securities	3,027		5,251		_		_		8,278
Total other debt securities carried at fair value	3,588		5,499		119		_		9,206
Loans and leases	_		5,518		253				5,771
Loans held-for-sale	_		883		232				1,115
Other assets (4)	6,898		897		1,799				9,594
Total assets (5)	\$ 328,385	\$	749,713	\$	10,719	\$	(349,726)	\$	739,091
Liabilities									
Interest-bearing deposits in U.S. offices	\$ _	\$	311	\$	_	\$	_	\$	311
Federal funds purchased and securities loaned or sold under									
agreements to repurchase ⁽²⁾	_		151,708		_		_		151,708
Trading account liabilities:									
U.S. Treasury and government agencies	13,906		181		_		_		14,087
Equity securities	36,937		4,825		_		_		41,762
Non-U.S. sovereign debt	9,636		8,228		_		_		17,864
Corporate securities and other	_		6,628		58		_		6,686
Total trading account liabilities	60,479		19,862		58		_		80,399
Derivative liabilities	15,431		376,979		6,106		(353,700)		44,816
Short-term borrowings	_		818		14		_		832
Accrued expenses and other liabilities	7,458		2,262		32		_		9,752
Long-term debt			32,208		862				33,070
Total liabilities ⁽⁵⁾	\$ 83,368	\$	584,148	\$	7,072	\$	(353,700)	\$	320,888

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

Amounts have been netted by \$221.7 billion to reflect the application of legally enforceable master netting agreements.

Includes securities with a fair value of \$16.6 billion that were segregated in compliance with securities regulations or deposited with clearing organizations. This amount is included in the parenthetical disclosure on the Consolidated Balance Sheet. Trading account assets also includes certain commodities inventory of \$40 million that is accounted for at the lower of cost or net realizable value, which is the current selling price less any costs to sell.

realizable value, which is the current sening price least any used to some (4 Includes MSRs, which are classified as Level 3 assets, of \$1.0 billion.

(5) Total recurring Level 3 assets were 0.35 percent of total consolidated assets, and total recurring Level 3 liabilities were 0.25 percent of total consolidated liabilities.

The following tables present a reconciliation of all assets and liabilities measured at fair value on a recurring basis using significant unobservable inputs (Level 3) during the three and nine months ended September 30, 2023 and 2022, including net realized and unrealized gains (losses) included in earnings and accumulated OCI. Transfers into Level 3 occur primarily due

to decreased price observability, and transfers out of Level 3 occur primarily due to increased price observability. Transfers occur on a regular basis for long-term debt instruments due to changes in the impact of unobservable inputs on the value of the embedded derivative in relation to the instrument as a whole.

Level 3 - Fair Value Measurements (1)

(Dollars in millions)	Balance July 1	Total Realized/ Unrealized Gains (Losses) in Net Income (2)	Gains (Losses) in OCI ⁽³⁾	Purchases	Sales	Gross Issuances	Settlements	Gross Transfers into Level 3	Gross Transfers out of Level 3	Balance September 30	Change in Unrealized Gains (Losses) in Net Income Related to Financial Instruments Still Held ⁽²⁾
Three Months Ended September 30, 2023											
Federal funds sold and securities borrowed or purchased under agreements to resell Trading account assets:	\$ 7	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ (7)	\$ —	\$ —
Corporate securities, trading loans and other	2,100	53	(1)	112	(17)		(149)	137	(79)	2,156	16
Equity securities	159	45	(<u>+</u>)	4	(3)		(47)		(31)	178	(3)
Non-U.S. sovereign debt	568	16	(14)		(3)		(203)		(01)	366	16
Mortgage trading loans, MBS and ABS	1,233	(10)	(1 -1)	40	(101)	_	(8)		(35)	1,209	(12)
Total trading account assets	4,060	104	(15)		(124)		(407)		(145)	3,909	17
Net derivative assets (liabilities) (4)	(4,997)	1,445	(235)		(395)	_	(577)		, ,	(4,460)	1,369
AFS debt securities:	(-,,	_,	()		()		()	()	_	(-,,	_,
Non-agency residential MBS	288	(2)	(6)	_	_	_	(2)	_	_	278	(2)
Non-U.S. and other taxable securities	184	4	_	_	_	_	(86)		_	106	2
Tax-exempt securities	51	_	_	_	_	_	`_	_	_	51	_
Total AFS debt securities	523	2	(6)	_		_	(88)	4	_	435	_
Other debt securities carried at fair value – Non- agency residential MBS	88	(3)	_	_	_	_	(1)	_	(14)	70	(3)
Loans and leases (5)	147	11					(29)		(22)	107	11
Loans held-for-sale (5)	188	(2)	(2)	_	(4)	_	(9)		(22)	171	(4)
Other assets (6,7)	1,809	115	(8)		(303)				_	1,726	83
Trading account liabilities – Equity securities	1,000	_	(0)	_	(555)		(52)	(12)		(12)	_
Trading account liabilities – Corporate securities		_					_			, ,	
and other	(49)	5	_	(1)	_	_	_	(27)	_	(72)	(1)
Short-term borrowings (5)	(11)	(1)	_	_	_	(6		_	_	(11)	(1) 8
Accrued expenses and other liabilities ⁽⁵⁾ Long-term debt ⁽⁵⁾	(14) (664)	8 3	1		— (4)		 24		1	(5) (640)	3
Three Months Ended September 30, 2022 Trading account assets:											
Corporate securities, trading loans and other	\$ 2,367	\$ (28)	\$ (1)	\$ 176	\$(144)	\$ —	\$ (300)	\$ 329	\$ (50)	\$ 2,349	\$ (30)
Equity securities	179	(5)		13	(7)	_		. 3	(12)	171	(5)
Non-U.S. sovereign debt	470	39	(12)	11	(2)	_	(18)	2	(5)	485	39
Mortgage trading loans, MBS and ABS	1,386	(57)	_	166	(72)	_	(6)	113	(67)	1,463	(47)
Total trading account assets	4,402	(51)	(13)	366	(225)	_	(324)	447	(134)	4,468	(43)
Net derivative assets (liabilities) (4)	(1,682)	(266)	_	97	(238)	_	49	(62)	(115)	(2,217)	(293)
AFS debt securities:											
Non-agency residential MBS	299	(1)	(11)	_	_	_	(8)	_	(13)	266	(1)
Non-U.S. and other taxable securities	200	2	(3)	_	_	_	(5)	224	(1)	417	(2)
Tax-exempt securities	52	_	_	_	_				_	52	
Total AFS debt securities	551	1	(14)	_	_	_	(13)	224	(14)	735	(3)
Other debt securities carried at fair value – Non-											
agency residential MBS	112	(2)	_	_	_	_	(4)		(6)	100	(2)
Loans and leases (5)	256	(1)	_	_	_	_	(58)		_	197	(2)
Loans held-for-sale ⁽⁵⁾ Other assets ^(6,7)	345	(27)	(2)		-		(44)			272	(27)
Other assets (617) Trading account liabilities – Corporate securities	1,750	70	(20)	_	(2)	78	(68)	_	(3)	1,805	61
and other	(14)	1	_	_	_	_	_	_	_	(13)	_
Short-term borrowings ⁽⁵⁾	_	1	_	_	(4)	_	_	(3)	_	(6)	1
Accrued expenses and other liabilities (5)	(63)	7	_	(7)	_	_	_	_	_	(63)	7
Long-term debt ⁽⁵⁾	(812)	26	(12)				18	(13)	_	(793)	26

⁽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 - market making and similar activities and other income; AFS debt securities - other income; Other debt securities carried at fair value - other income; Loans and leases - market making and similar activities and other income; Loans held-for-sale - other income; Other assets - market making and similar activities and other income related to MSRs; Short-term borrowings - market making and similar activities; Accrued expenses and other liabilities - other income; Long-term debt - market making and similar activities.

⁽³⁾ Includes unrealized gains (losses) in OCI on AFS debt securities, foreign currency translation adjustments, derivatives designated in cash flow hedges and the impact of changes in the Corporation's credit spreads on long-term debt accounted for under the fair value option. Amounts include net unrealized losses of \$245 million and \$60 million related to financial instruments still held at September 30, 2023 and 2022.

Net derivative assets (liabilities) include derivative assets of \$4.6 billion and \$3.3 billion and derivative liabilities of \$9.1 billion and \$5.5 billion at September 30, 2023 and 2022.

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

⁽⁶⁾ Issuances represent MSRs recognized following securitizations or whole-loan sales.

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

Level 3 - Fair Value Measurements (1)

Four Securities 145 39 - 20 447 - (59) 134 (54) 178 (75) (Balance January 1	Total Realized/ Unrealized Gains (Losses) in Net Income (2)	Gains (Losses) in OCI ⁽³⁾	Purchases		ross Issuances	Settlements	Gross Transfers into Level 3	Gross Transfers out of Level 3	Balance September 30	Change in Unrealized Gains (Losses) in Net Income Related to Financial Instruments Still Held ⁽²⁾
purchased under agreements to resell	Nine Months Ended September 30, 2023											
Comparts securities, trading loans and other label in the Equity securities 146 39 20 477 (59) 331 (251) 2,156 1.52 1	purchased under agreements to resell	\$ —	\$ —	s —	\$ —	\$ —	\$ —	\$ —	\$ 7	\$ (7)	\$ —	\$
Equity securities 1.45 39 - 20	S											
Non-U.S. solvereign debt Mortgage transing learns. MBS and ABS 1.552 (38) — 144 (303) — (229) 332 (249) 1.209 (4 for larging account assets 4.599 169 23 5.38 (531) 14 (1.146) 797 (554) 3.909 (4.460) (1.7 for larging account assets) (1.572) (1.54) 3.909 (1.7 for larging account assets) (1.572) (1.54) (1.572) (1.54) 3.909 (1.7 for larging account assets) (1.572) (1.		,		1		. ,		, ,		. ,	,	38
Mortgage trading loans, MISS and ABS 1,552 388 - 1,44 40,030 - 1,209 332 249 1,209 0, 10 total trading account assets 4,599 159 23 538 531 14 (1,146 797 (154) 309 (1,400 1				_					134	(54)		(10)
Total training account asserts 4,599 169 23 538 (531) 14 (1,146) 797 (554) 3,909 100	5								_	(0.40)		56
Net demarktive asserts (ilabilities) (a) (2,893) (116) (375) 1,142 (994) — (1,372) (154) 302 (4,460) (1,74			. ,			. ,		, ,		. ,		(50)
AFS debt securities: Non-agency residential MBS Non-U.S. and other taxable securities 195 8 7							14				,	34
Non-U.S. and other taxable securities 195		(2,893)	(116)	(375)	1,142	(994)	_	(1,372)	(154)	302	(4,460)	(1,794)
Non-U.S. and other taxable securities 195 8 7 - - - -		050		00				(7)			070	
Takewempt securities 51					_	_	_		_	(7)		1
Total AFS debt securities			8	1	_	_	_	(101)	4	(7)		_
Other debt securities carried at fair value – Non- agency residential MBS 119								(108)		(7)		
Lagency residential MBS 119 (4) - (19) (5) - (21) 70 10 10 10 10 10 10		504	9	33	_	_	_	(108)	4	(1)	435	1
Danis held-for-sale 6.60 232 20 2 - (25) - (58) - (58) - (17) 172 17	agency residential MBS		(4)	_	_		_		_			(3)
Other assets (6.7)			_	_	9	, ,	_		16	(22)		(5)
Trading account liabilities – Equity securities Trading account liabilities – Corporate securities and other (58) 1 - (2) (2) (1) 2 (33) 21 (72) Short-term borrowings (5) (14) 2 - (13) (8) 22 (14) (15) Accrued expenses and other liabilities (6) (32) 38 - (12) 1 (5) Long-term debt (6) (862) 154 (20) (9) 49 - 41 - 7 (640) 1 Accrued expenses and other liabilities (7) (640) 1 (862) 154 (20) (9) 49 - 41 - 7 (7) (640) 1 (862) 154 (20) (9) 49 - 41 - 7 (7) (640) 1 (862) 154 (20) (9) 49 - 41 (7) 849 (695) 8 2,349 8 (10) Romandia account assets: Corporate securities, trading loans and other (8,110) 8 (97) 8 (2) 8 943 8 (342) 8 - 8 (417) 8 849 8 (695) 8 2,349 8 (10) Equity securities Corporate securities, trading loans and other (8,110) 9 2 - 41 (22) - (4) 29 (65) 171 (6) Non-U.S. sovereign debt 396 58 8 18 (4) - (33) 52 (10) 485 12 Mortgage trading loans, MBS and ABS 1,527 (235) - 373 (388) - (100) 429 (142) 1,463 (11) Total trading account assets (16) 18(18) (2) (2,662) 1,076 - 222 (589) - 393 (241) (416) (2,217) 7 AFS debt securities Non-agency residential MBS 316 1 (33) - (8) - (8) - (71) 74 (13) 266 Non-U.S. and other taxable securities 52 (154) - (14) 311 (70) 417 Tax-exempt securities 52 (154) - (14) 311 (70) 417 Tax-exempt securities Other debt securities carried at fair value – Nonagency residential MBS 44 (42) (154) - (106) - (249) 197 (6) Cons and leases (6,6) 317 (3) 3 170 (6) - (217) 8 - 227 (6) Cons and leases (6,6) 748 (42) (154) - (106) - (249) 197 (6) Cons and leases (6,6) 131 (3) 3 170 (6) - (217) 8 - 227 (6) Other assets (6,7) 1, 5,72 (296) (25) - (1) 163 (201) 4 (3) 1,805 (13) Frading account liabilities – Corporate securities and other (14) 14 (14) (14) (14) (14) (15) (15) (15) (15) (15) (15) (15) (15					_				_	_		10
Trading account liabilities - Corporate securities and other other borrowings [5] (14) 2 (13) (8) 22 (114) (14) (14) (14) (14) (14) (14) (14		1,799	223	(1)	174	(302)	71	(240)		_	,	119
Short-term borrowings (5)		_	_	_	_	_	_	_	(12)	_	(12)	_
Short-term borrowings Shor												
Accrued expenses and other liabilities (5) (862) 154 (20) (9) 49 1 (5) (5) (1) (640) 11 (1) (862) 154 (20) (9) 49 41 7 (640) 11 (1) (640) 11 (1) (862) 154 (20) (9) 49 41 7 (640) 11 (1) (1) (1) (1) (1) (1) (1) (1) (1)				_	(2)				(33)	21		(2)
Nine Months Ended September 30, 2022 Trading account assets: Corporate securities, trading loans and other support of the securities of the securities securities support of the securities support of		, ,		_	_	(13)	(8)		_	_	` ,	
Nine Months Ended September 30, 2022 Trading account assets: Corporate securities, trading loans and other Equity securities 190 2 - 41 (22) - (4) 29 (65) 171 (6) 1		, ,		_	, ,	_	_		_		, ,	21
Trading account assets: Corporate securities, trading loans and other \$ 2,110 \$ (97) \$ (2) \$ 943 \$ (342) \$ - \$ (417) \$ 849 \$ (695) \$ 2,349 \$ (116) \$ (117)	Long-term debt (9)	(862)	154	(20)	(9)	49		41			(640)	158
Trading account assets: Corporate securities, trading loans and other Equity securities 190 2 - 41 (22) - (41) 849 (695) 171 (695) 171 (695) 171 (795) 171	Nine Months Ended September 30, 2022											
Corporate securities, trading loans and other												
Equity securities 190 2 — 41 (22) — (4) 29 (65) 171 (0) Non-U.S. sovereign debt 396 58 8 18 (4) — (33) 52 (10) 485 59 (10) 485	S	\$ 2110	\$ (97)	\$ (2)	\$ 943	\$ (342)	s —	\$ (417)	\$ 849	\$ (695)	\$ 2,349	\$ (141)
Non-U.S. sovereign debt 396 58 8 18 (4) — (33) 52 (10) 485 52 Mortgage trading loans, MBS and ABS 1,527 (235) — 373 (389) — (100) 429 (142) 1,463 (12) Total trading account assets 4,223 (272) 6 1,375 (757) — (554) 1,359 (912) 4,468 (22) Net derivative assets (liabilities) (4) (2,662) 1,076 — 222 (589) — 393 (241) (416) (2,217) 70 (416) Non-U.S. and other taxable securities 71 5 (12) 126 — (171) 74 (13) 266 Non-U.S. and other taxable securities 52 — — — — — — — — — — — — 52 (43) 735 (757) — (554) 1,359 (912) 4,468 (22) (231				· (2)			_					(20)
Mortgage trading loans, MBS and ABS				8			_					55
Total trading account assets	S						_	. ,		, ,		(124)
Net derivative assets (liabilities) (4) (2,662) 1,076 — 222 (589) — 393 (241) (416) (2,217) 70 AFS debt securities: Non-agency residential MBS 316 1 (33) — (8) — (71) 74 (13) 266 Non-U.S. and other taxable securities 71 5 (12) 126 — — (14) 311 (70) 417 Tax-exempt securities 52 — — — — — — — — — — — 52 Total AFS debt securities 439 6 (45) 126 (8) — (85) 385 (83) 735 Other debt securities carried at fair value – Non-agency residential MBS 242 (42) — — — — — — — (77) — (23) 100 Loans and leases (5,6) 748 (42) — — — (154) — (106) — (249) 197 (20) Loans held-for-sale (5,6) 317 (3) 3 170 (6) — (217) 8 — 272 (20) Other assets (6,7) 1,572 296 (25) — (1) 163 (201) 4 (3) 1,805 11 Trading account liabilities – Corporate securities and other (11) — — — — — — — — — (2) — — (13) Short-term borrowings (5) — 1 — — — (4) — — — (3) — (6) Accrued expenses and other liabilities (5)		,	. ,	6		. ,		. ,		. ,	,	(230)
AFS debt securities: Non-agency residential MBS 316 1 (33) - (8) - (71) 74 (13) 266 Non-U.S. and other taxable securities 71 5 (12) 126 (14) 311 (70) 417 Tax-exempt securities 52 52 Total AFS debt securities 3439 6 (45) 126 (8) - (85) 385 (83) 735 Other debt securitied at fair value – Nonagency residential MBS 242 (42) (77) - (23) 100 Loans and leases (5,6) 748 (42) (154) - (106) - (249) 197 Loans held-for-sale (5,6) 317 Cother assets (6,7) 317 (3) 3 170 (6) - (217) 8 - 272 (7) Trading account liabilities – Corporate securities and other (11) (12) (13) Short-term borrowings (5) (11) (12) (13) Accrued expenses and other liabilities (6) - (56) - (7) (13) (63)	-	,	. ,			. ,	_	, ,		. ,		701
Non-agency residential MBS 316 1 (33) — (8) — (71) 74 (13) 266 Non-U.S. and other taxable securities 71 5 (12) 126 — — (14) 311 (70) 417 Tax-exempt securities 52 — — — — — — — — — — — 52 Total AFS debt securities 439 6 (45) 126 (8) — (85) 385 (83) 735 Other debt securities carried at fair value – Non-agency residential MBS 242 (42) — — — — — — (77) — (23) 100 Loans and leases (5,6) 748 (42) — — (154) — (106) — (249) 197 (249) Loans held-for-sale (5,6) 317 (3) 3 170 (6) — (217) 8 — 272 (5) Other assets (6,7) 1,572 296 (25) — (1) 163 (201) 4 (3) 1,805 15 Trading account liabilities – Corporate securities and other (11) — — — — — — — — — (2) — — — (13) Short-term borrowings (5) — 1 — — — (4) — — — (3) — (6) Accrued expenses and other liabilities (6)		(=,,	_,			()			(- :-/	(/	(=,==: /	
Non-U.S. and other taxable securities 71 5 (12) 126 — — (14) 311 (70) 417 Tax-exempt securities 52 — — — — — — — — — — — — 52 Total AFS debt securities 439 6 (45) 126 (8) — (85) 385 (83) 735 Other debt securities carried at fair value – Non-agency residential MBS 242 (42) — — — — — — (77) — (23) 100 Loans and leases (5,6) 748 (42) — — (154) — (106) — (249) 197 (249) Loans held-for-sale (5,6) 317 (3) 3 170 (6) — (217) 8 — 272 (277) Other assets (6,7) 1,572 296 (25) — (1) 163 (201) 4 (3) 1,805 197 Trading account liabilities – Corporate securities and other (11) — — — — — — — — — — — — — — — (13) Short-term borrowings (5) — — (156) — (7) — — — — — — — — — — — — — (63)		316	1	(33)	_	(8)	_	(71)	74	(13)	266	1
Tax-exempt securities 52 — — — — — — — 52 — — 52 — — 52 — — 52 — — 52 — — 52 — — — 52 — — 52 — — 52 — — 52 — 126 (8) — (85) 385 (83) 735 — 735 — 100 </td <td></td> <td></td> <td></td> <td>, ,</td> <td></td> <td>_</td> <td>_</td> <td></td> <td></td> <td>, ,</td> <td></td> <td>1</td>				, ,		_	_			, ,		1
Total AFS debt securities			_	`_	_	_	_	`	_			(1)
agency residential MBS 242 (42) — — — — (77) — (23) 100 Loans and leases (5,6) 748 (42) — — (154) — (106) — (249) 197 (2 Loans held-for-sale (5,6) 317 (3) 3 170 (6) — (217) 8 — 272 (2 Other assets (6,7) 1,572 296 (25) — (1) 163 (201) 4 (3) 1,805 15 Trading account liabilities – Corporate securities and other (11) — — — — — (2) — — — (13) Short-term borrowings (5) — 1 — — (4) — — — — (63) (6 Accrued expenses and other liabilities (5) — (56) — (7) —			6	(45)	126	(8)	_	(85)	385	(83)		1
agency residential MBS 242 (42) — — — — (77) — (23) 100 Loans and leases (5,6) 748 (42) — — (154) — (106) — (249) 197 (2 Loans held-for-sale (5,6) 317 (3) 3 170 (6) — (217) 8 — 272 (2 Other assets (6,7) 1,572 296 (25) — (1) 163 (201) 4 (3) 1,805 15 Trading account liabilities – Corporate securities and other (11) — — — — — (2) — — — (13) Short-term borrowings (5) — 1 — — (4) — — — — (63) (6 Accrued expenses and other liabilities (5) — (56) — (7) —	Other debt securities carried at fair value - Non-			, ,		. ,		` ′		, ,		
Loans held-for-sale (5.6) 317 (3) 3 170 (6) — (217) 8 — 272 (1) Other assets (6.7) 1,572 296 (25) — (1) 163 (201) 4 (3) 1,805 15 Trading account liabilities – Corporate securities and other (11) — — — — (2) — — (13) Short-term borrowings (5) — 1 — — (4) — — (3) — (6) Accrued expenses and other liabilities (5) — (56) — (7) — — — — — (63) (63)		242	(42)	_	_	_	_	(77)	_	(23)	100	(7)
Other assets (6,7) 1,572 296 (25) — (1) 163 (201) 4 (3) 1,805 13 Trading account liabilities – Corporate securities and other (11) — — — — — — — — (2) — — (13) — (13) Short-term borrowings (5) — — 1 — — (4) — — — (3) — (6) Accrued expenses and other liabilities (5) — (56) — (7) — — — — — — — — (63) (3)	Loans and leases (5,6)	748	(42)	_	_	(154)	_	(106)	_	(249)	197	(20)
Other assets (6,7)		317	(3)	3	170	(6)	_	(217)	8		272	(11)
Trading account liabilities – Corporate securities and other (11) — — — — — — (2) — — (13) Short-term borrowings (5) — 1 — — (4) — — (3) — (6) Accrued expenses and other liabilities (5) — (56) — (7) — — — — (63) (3)	Other assets (6,7)	1,572		(25)	_		163	(201)	4	(3)	1,805	152
Short-term borrowings $^{(5)}$ — 1 — — $^{(4)}$ — — $^{(3)}$ — $^{(6)}$ Accrued expenses and other liabilities $^{(5)}$ — $^{(56)}$ — $^{(7)}$ — — — — $^{(63)}$ $^{(56)}$	Trading account liabilities – Corporate securities											
Accrued expenses and other liabilities $^{(5)}$ — (56) — (7) — — — — (63)	and other	(11)	_	_	_	_	_	(2)	_	_	(13)	_
		_	1	_	_	(4)	_	_	(3)	_	(6)	1
Landterm dobt (5) (4.075) (96) 67 14 (4) 25 (40) 282 (702) (41)		_	(56)	_	(7)	_	_	_	_	_	(63)	(33)
Ling-term debt (1,075) (90) 07 — 14 (1) 35 (19) 262 (795) (19)	Long-term debt ⁽⁵⁾	(1,075)	(96)	67		14	(1)	35	(19)	282	(793)	(102)

Change in

 $^{^{(1)}}$ 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 - market making and similar activities and other income; Net derivative assets (liabilities) - market making and similar activities and other income; AFS debt securities - other income; Other debt securities carried at fair value - other income; Loans and leases - market making and similar activities and other income; Loans held-for-sale - other income; Other assets - market making and similar activities and other income primarily related to MSRs; Short-term borrowings - market making and similar activities; Accrued expenses and other liabilities - market making and similar activities and other income; Long-term debt - market making and similar activities

⁽³⁾ Includes unrealized gains (losses) in OCI on AFS debt securities, foreign currency translation adjustments, derivatives designated in cash flow hedges and the impact of changes in the Corporation's credit spreads on long-term debt accounted for under the fair value option. Amounts include net unrealized gains (losses) of \$(332) million and \$2 million related to financial instruments still held at September 30, 2023 and 2022.

⁽⁴⁾ Net derivative assets (liabilities) include derivative assets of \$4.6 billion and \$3.3 billion and derivative liabilities of \$9.1 billion and \$5.5 billion at September 30, 2023 and 2022.

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

Amounts represent institutions that are accounted for under the fair value option.

Issuances represent MSRs recognized following securitizations or whole-loan sales.

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

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, 2023 and December 31, 2022.

Quantitative Information about Level 3 Fair Value Measurements at September 30, 2023

(Dollars in millions) Inputs Fair Valuation Significant Unobservable Ranges of Weighted **Financial Instrument** Value Technique Inputs Inputs Average Loans and Securities (2) Instruments backed by residential real estate assets 579 Yield 0% to 20% 9% 129 0% to 41% CPR 10% CPR Trading account assets - Mortgage trading loans, MBS and ABS Prepayment speed Discounted cash Loans and leases 102 flow, Market Default rate 0% to 3% CDR 1% CDR comparables AFS debt securities - Non-agency residential 278 Price \$0 to \$115 \$72 Other debt securities carried at fair value - Non-agency residential 70 Loss severity 0% to 100% 29% Instruments backed by commercial real estate assets 377 Yield 0% to 25% 12% Discounted cash 294 \$0 to \$100 \$75 Trading account assets - Corporate securities, trading loans and other Trading account assets - Mortgage trading loans, MBS and ABS 83 3,558 Yield 5% to 51% 13% Commercial loans, debt securities and other Trading account assets - Corporate securities, trading loans and other 1,862 Prepayment speed 10% to 20% 16% Trading account assets - Non-U.S. sovereign debt 366 Default rate 3% to 4% 4% Discounted cash Trading account assets - Mortgage trading loans, MBS and ABS 997 35% to 40% 37% Loss severity flow, Market AFS debt securities - Tax-exempt securities 51 \$0 to \$157 \$73 comparables AFS debt securities - Non-U.S. and other taxable securities 106 Loans and leases 5 Loans held-for-sale 171 Other assets, primarily auction rate securities \$ 680 Price \$10 to \$95 \$85 Discounted cash flow. Market Discount rate 11% n/a comparables MSRs 1,046 Weighted-average life, fixed rate (5) 0 to 14 years 6 years Weighted-average life, variable rate (5) Discounted cash 0 to 12 years 3 years flow Option-adjusted spread, fixed rate 7% to 14% 9% Option-adjusted spread, variable rate 9% to 15% 12% Structured liabilities Long-term debt (640)Discounted cash Yield 51% n/a flow, Market Equity correlation 1% to 97% 89% comparables, \$0 to \$100 \$90 Industry standard derivative pricing (3) \$2/MMBtu to \$8/MMBtu Natural gas forward price \$4 /MMBtu Net derivative assets (liabilities) Credit derivatives \$ 9 Credit spreads 3 to 81 bps 64 bps Discounted cash Prepayment speed 15% CPR n/a flow, Stochastic Default rate 2% CDR n/a recovery correlation Credit correlation 21% to 59% 52% mode Price \$0 to \$92 \$85 (635) 67% Equity derivatives Equity correlation 0% to 99% Industry standard derivative pricing (3) Long-dated equity volatilities 2% to 94% 36% Discounted cash Natural gas forward price Commodity derivatives (545)\$2/MMBtu to \$8/MMBtu \$4 /MMBtu flow, Industry Power forward price \$20 to \$92 \$42 standard derivative pricing (3) Interest rate derivatives \$ (3,289) Correlation (IR/IR) (35)% to 89% 66% Correlation (FX/IR) 11% to 58% 37% Industry standard Long-dated inflation rates (1)% to 12% 0% derivative pricing Long-dated inflation volatilities 0% to 5% 1% Interest rate volatilities 0% to 2% 1% Total net derivative assets (liabilities) \$ (4,460)

For loans and securities, structured liabilities and net derivative assets (liabilities), the weighted average is calculated based upon the absolute fair value of the instruments.

3) Includes models such as Monte Carlo simulation and Black-Scholes.

CPR = Constant Prepayment Rate

CDR = Constant Default Rate

MMBtu = Million British thermal units

IR = Interest Rate

FX = Foreign Exchange n/a = not applicable

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 92: Trading account assets – Corporate securities, trading loans and other of \$2.2 billion, Trading account assets – Non-U.S. sovereign debt of \$366 million, Trading account assets – Mortgage trading loans, MBS and ABS of \$1.2 billion, AFS debt securities of \$435 million, Other debt securities carried at fair value - Non-agency residential of \$70 million, Other assets, including MSRs, of \$1.7 billion, Loans and leases of \$107 million and LHFS of \$171 million.

⁽⁴⁾ Includes models such as Monte Carlo simulation, Black-Scholes and other methods that model the joint dynamics of interest, inflation and foreign exchange rates.
(5) The weighted-average life is a product of changes in market rates of interest, prepayment rates and other model and cash flow assumptions.

Quantitative Information about Level 3 Fair Value Measurements at December 31, 2022

(Dollars in millions) Inputs Weighted Valuation Significant Unobservable Ranges of Financial Instrument Value Technique Average Loans and Securities (2) Instruments backed by residential real estate assets 852 0% to 25% 10% 12% CPR 338 Prepayment speed 0% to 29% CPR Trading account assets - Mortgage trading loans, MBS and ABS Discounted cash Loans and leases 137 flow, Market Default rate 0% to 3% CDR 1% CDR comparables 258 AFS debt securities - Non-agency residential Price \$0 to \$111 \$26 Other debt securities carried at fair value - Non-agency residential 119 Loss severity 0% to 100% 24% Instruments backed by commercial real estate assets 362 Yield 0% to 25% 10% 292 \$0 to \$100 \$75 Trading account assets - Corporate securities, trading loans and other Discounted cash Price flow Trading account assets - Mortgage trading loans, MBS and ABS 66 Loans held-for-sale 4.348 Yield 5% to 43% 15% Commercial loans, debt securities and other Trading account assets - Corporate securities, trading loans and other 2,092 Prepayment speed 10% to 20% 15% 518 Default rate 3% to 4% 4% Trading account assets - Non-U.S. sovereign debt Discounted cash 35% to 40% 38% Trading account assets - Mortgage trading loans, MBS and ABS 1.148 Loss severity flow. Market AFS debt securities - Tax-exempt securities Price \$0 to \$157 \$75 51 comparables 195 AFS debt securities - Non-U.S. and other taxable securities Loans and leases 116 228 Loans held-for-sale \$ Price \$10 to \$97 \$94 Other assets, primarily auction rate securities 779 Discounted cash flow, Market Discount rate 11% n/a comparables MSRs 1,020 Weighted-average life, fixed rate (5) 0 to 14 years 6 years 4 years Weighted-average life, variable rate (5) 0 to 12 years Discounted cash Option-adjusted spread, fixed rate 7% to 14% 9% Option-adjusted spread, variable rate 9% to 15% 12% Structured liabilities (862) Discounted cash 22% to 43% Long-term debt Yield 23% flow, Market Equity correlation 0% to 95% 69% comparables, \$0 to \$119 \$90 Price Industry standard derivative pricing Natural gas forward price \$3/MMBtu to \$13/MMBtu \$9/MMBtu Net derivative assets (liabilities) Credit derivatives (44)Credit spreads 3 to 63 bps Upfront points 0 to 100 points 83 points Discounted cash flow, Stochastic Prepayment speed 15% CPR n/a recovery correlation Default rate 2% CDR n/a model Credit correlation 18% to 53% 44% \$0 to \$151 \$63 Price Equity correlation **Equity derivatives** (1,534)0% to 100% 73% Industry standard derivative pricing (3) 4% to 101% 44% Long-dated equity volatilities Discounted cash Commodity derivatives (291)Natural gas forward price \$3/MMBtu to \$13/MMBtu \$8/MMBtu flow, Industry Power forward price \$9 to \$123 \$43 standard derivative pricing (3) Interest rate derivatives \$ (1,024) Correlation (IR/IR) (35)% to 89% 67% 43% Correlation (FX/IR) 11% to 58% Industry standard Long-dated inflation rates 0% to 39% 1% derivative pricing Long-dated inflation volatilities 0% to 5% 2% 0% to 2% Interest rates volatilities 1% Total net derivative assets (liabilities) \$ (2,893)

CDR = Constant Default Rate

MMBtu = Million British thermal units

IR = Interest Rate

FX = Foreign Exchange

Uncertainty of Fair Value Measurements from Unobservable Inputs

For information on the types of instruments, valuation approaches and the impact of changes in unobservable inputs used in Level 3 measurements, see Note 20 - Fair Value Measurements to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

⁽¹⁾ For loans and securities, structured liabilities and net derivative assets (liabilities), the weighted average is calculated based upon the absolute fair value of the instruments.

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 93: Trading account assets - Corporate securities, trading loans and other of \$2.4 billion, Trading account assets - Non-U.S. sovereign debt of \$518 million, Trading account assets - Mortgage trading loans, MBS and ABS of \$1.6 billion, AFS debt securities of \$504 million, Other debt securities carried at fair value - Non-agency residential of \$119 million, Other assets, including MSRs, of \$1.8 billion, Loans and leases of \$253 million and LHFS of \$232 million

Includes models such as Monte Carlo simulation and Black-Scholes.

Includes models such as Monte Carlo simulation, Black-Scholes and other methods that model the joint dynamics of interest, inflation and foreign exchange rates.

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

CPR = Constant Prepayment Rate

Nonrecurring Fair Value

The Corporation holds certain assets that are measured at fair value only in certain situations (e.g., the impairment of an asset), 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, 2023 and 2022.

Assets Measured at Fair Value on a Nonrecurring Basis

	September 30, 2023					Months Ended ember 30, 2023		ne Months Ended otember 30, 2023
(Dollars in millions)	Le	vel 2	L	evel 3		Gains (Losse	s)
Assets								
Loans held-for-sale	\$	276	\$	3,066	\$	(28)	\$	(95)
Loans and leases (1)		_		129		(15)		(36)
Foreclosed properties (2, 3)		_		44		1		(2)
Other assets		31		905		(182)		(189)

	Septembe	r 30, 2	022	September		lonths Ended ber 30, 2022
Assets						
Loans held-for-sale	\$ 1,752	\$	398	\$	119	\$ 87
Loans and leases (1)	_		152		(13)	(44)
Foreclosed properties (2, 3)	_		6		(2)	(3)
Other assets	80		48		_	(40)

¹⁾ Includes \$4 million and \$8 million of losses on loans that were written down to a collateral value of zero during the three and nine months ended September 30, 2023 compared to losses of \$6 million and \$17 million for the same periods in 2022.

The table below presents information about significant unobservable inputs utilized in the Corporation's nonrecurring Level 3 fair value measurements during the nine months ended September 30, 2023 and the year ended December 31, 2022.

Quantitative Information about Nonrecurring Level 3 Fair Value Measurements

				nputs	
Financial Instrument	Fair Value	Valuation Technique	Significant Unobservable Inputs	Ranges of Inputs	Weighted Average ⁽¹⁾
(Dollars in millions)		Nine	Months Ended September 30,	2023	
Loans held-for-sale	\$ 3,066	Pricing model	Implied yield	12% to 26%	n/a
Loans and leases (2)	129	Market comparables	OREO discount	10% to 66%	26%
			Costs to sell	8% to 24%	9%
Other assets (3)	905	Discounted cash flow	Discount rate	7%	n/a
		Υ	ear Ended December 31, 202	2	
Loans held-for-sale	\$ 3,079	Pricing model	Implied yield	9% to 24%	n/a
Loans and leases (2)	166	Market comparables	OREO discount	10% to 66%	26%
			Costs to sell	8% to 24%	9%
Other assets (3)	165	Discounted cash flow	Discount rate	7 %	n/a

⁽¹⁾ The weighted average is calculated based upon the fair value of the loans.

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 2022 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, 2023 and December 31, 2022, 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, 2023 and 2022.

⁽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 \$33 million and \$75 million of properties acquired upon foreclosure of certain government guaranteed loans (principally FHA-insured loans) at September 30, 2023 and 2022.

Represents residential mortgages where the loan has been written down to the fair value of the underlying collateral.

⁽³⁾ Represents the fair value of certain impaired renewable energy investments.

Fair Value Option Elections

		Sept	tember 30, 2023	3			Dec	ember 31, 2022		
(Dollars in millions)	Fair Value Carrying Amount		Contractual Principal Outstanding	А	Fair Value Carrying mount Less paid Principal	Fair Value Carrying Amount		Contractual Principal Outstanding	A	Fair Value Carrying mount Less paid Principal
Federal funds sold and securities borrowed or purchased under agreements to resell	\$ 170,332	\$	170,323	\$	9	\$ 146,999	\$	147,158	\$	(159)
Loans reported as trading account assets (1)	8,562		15,975		(7,413)	10,143		17,682		(7,539)
Trading inventory – other	22,967		n/a		n/a	20,770		n/a		n/a
Consumer and commercial loans	4,250		4,317		(67)	5,771		5,897		(126)
Loans held-for-sale (1)	1,607		2,365		(758)	1,115		1,873		(758)
Other assets	1,271		n/a		n/a	620		n/a		n/a
Long-term deposits	404		488		(84)	311		381		(70)
Federal funds purchased and securities loaned or sold under agreements to repurchase	209.837		209.914		(77)	151,708		151,885		(177)
Short-term borrowings	4,046		4,065		(19)	832		833		(1)
Unfunded Ioan commitments	62		n/a		n/a	110		n/a		n/a
Accrued expenses and other liabilities	1,645		1,894		(249)	1,217		1,161		56
Long-term debt	39,443		45,504		(6,061)	33,070		36,830		(3,760)

⁽¹⁾ A significant portion of the loans reported as trading account assets and LHFS are distressed loans that were purchased at a deep discount to par, and the remainder are loans with a fair value near contractual principal outstanding. n/a = not applicable

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

				T	Three Months End	led :	September 30		
			2023					2022	
(Dollars in millions)	N	larket making and similar activities	Other Income		Total	N	Aarket making and similar activities	Other Income	Total
Loans reported as trading account assets	\$	58	\$ _	\$	58	\$	(62)	\$ _	\$ (62)
Trading inventory – other ⁽¹⁾		(900)	_		(900)		(2,141)	_	(2,141)
Consumer and commercial loans		(50)	15		(35)		(16)	25	9
Loans held-for-sale (2)		_	(38)		(38)		_	(86)	(86)
Short-term borrowings		(1)	_		(1)		81	_	81
Unfunded loan commitments		(1)	7		6		_	27	27
Accrued expenses and other liabilities		197	_		197		_	_	_
Long-term debt ⁽³⁾		863	(4)		859		1,562	(16)	1,546
Other (4)		38	(1)		37		12	(1)	11
Total	\$	204	\$ (21)	\$	183	\$	(564)	\$ (51)	\$ (615)

			Ni	ne Months End	ed S	eptember 30		
		2023					2022	
Loans reported as trading account assets	\$ 208	\$ <u> </u>	\$	208	\$	(211)	\$ _	\$ (211)
Trading inventory – other (1)	2,065	_		2,065		(4,269)	_	(4,269)
Consumer and commercial loans	(189)	56		(133)		(86)	(53)	(139)
Loans held-for-sale (2)	_	(22)		(22)		_	(308)	(308)
Short-term borrowings	10	_		10		643	_	643
Unfunded loan commitments	(1)	27		26		_	(61)	(61)
Accrued expenses and other liabilities	246	_		246		_	_	_
Long-term debt ⁽³⁾	361	(27)		334		5,049	(36)	5,013
Other (4)	73	(12)		61		6	23	29
Total	\$ 2,773	\$ 22	\$	2,795	\$	1,132	\$ (435)	\$ 697

⁽¹⁾ The gains (losses) in market making and similar activities are primarily offset by (losses) gains on trading liabilities that hedge these assets.

Includes the value of IRLCs on funded loans, including those sold during the period.

The net gains (losses) in market making and similar activities relate to the embedded derivatives in structured liabilities and are typically offset by (losses) gains on derivatives and securities that hedge these liabilities. For the cumulative impact of changes in the Corporation's own credit spreads and the amount recognized in accumulated OCI, see Note 12 - Accumulated Other Comprehensive Income (Loss). For more information on how the Corporation's own credit spread is determined, see Note 20 – Fair Value Measurements to the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

(4) Includes gains (losses) on federal funds sold and securities borrowed or purchased under agreements to resell, other assets, long-term deposits, and federal funds purchased and securities

loaned or sold under agreements to repurchase.

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

	Three Mor	iths End	led S	eptember 30	Nine Months I	Ended	September 30
(Dollars in millions)	2023			2022	2023		2022
Loans reported as trading account assets	\$	19	\$	(123)	\$ 5	5 \$	(434)
Consumer and commercial loans		5		19	4	1	(72)
Loans held-for-sale		(17)		(3)	(1	.7)	(14)
Unfunded loan commitments		7		27	2	27	(61)

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 is carried at fair value on the Consolidated Balance Sheet. Certain loans, deposits, long-term debt, unfunded lending commitments and other financial instruments are accounted for under the fair value option. For more information, see *Note 21 – Fair Value Option* to the Consolidated Financial Statements of the Corporation's 2022 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, 2023 and December 31, 2022 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	r 30, :	2023	
Financial assets						
Loans	\$	1,016,900	\$ 49,012	\$	937,250	\$ 986,262
Loans held-for-sale		7,591	4,096		3,496	7,592
Financial liabilities						
Deposits (1)		1,884,601	1,885,172		_	1,885,172
Long-term debt		290,359	287,949		948	288,897
Commercial unfunded lending commitments (2)		1,416	57		3,852	3,909
			December	31, 2	2022	
Financial assets						
Loans	\$	1,014,593	\$ 50,194	\$	935,282	\$ 985,476
Loans held-for-sale		6,871	3,417		3,455	6,872
Financial liabilities						
Deposits (1)		1,930,341	1,930,165		_	1,930,165
Long-term debt		275,982	271,993		1,136	273,129
Commercial unfunded lending commitments (2)		1,650	77		6,596	6,673

¹⁾ Includes demand deposits of \$887.7 billion and \$918.9 billion with no stated maturities at September 30, 2023 and December 31, 2022.

NOTE 17 Business Segment Information

The Corporation reports its results of operations through the following four business segments: Consumer Banking, Global Wealth & Investment Management, Global Banking and Global Markets, with the remaining operations recorded in All Other. For more information, see Note 23 – Business Segment Information to the Consolidated Financial Statements of the Corporation's

2022 Annual Report on Form 10-K. The following tables present net income and the components thereto (with net interest income on an FTE basis for the business segments, *All Other* and the total Corporation) for the three and nine months ended September 30, 2023 and 2022, and total assets at September 30, 2023 and 2022 for each business segment, as well as *All Other*.

⁽²⁾ The carrying value of commercial unfunded lending commitments is included in accrued expenses and other liabilities on the Consolidated Balance Sheet. The Corporation does not estimate the fair value of consumer unfunded lending commitments because, in many instances, the Corporation can reduce or cancel these commitments by providing notice to the borrower. For more information on commitments, see Note 10 - Commitments and Contingencies.

Results of Business Segments and All Other

At and for the three months ended September 30	Total Corp	pora	tion ⁽¹⁾	Consume	r Ba	anking	C	Global Wealth Manag	
(Dollars in millions)	 2023		2022	2023		2022		2023	2022
Net interest income	\$ 14,532	\$	13,871	\$ 8,391	\$	7,784	\$	1,755	\$ 1,981
Noninterest income	10,788		10,737	2,081		2,120		3,566	3,448
Total revenue, net of interest expense	25,320		24,608	10,472		9,904		5,321	5,429
Provision for credit losses	1,234		898	1,397		738		(6)	37
Noninterest expense	15,838		15,303	5,256		5,097		3,950	3,816
Income before income taxes	8,248		8,407	3,819		4,069		1,377	1,576
Income tax expense	446		1,325	955		997		344	386
Net income	\$ 7,802	\$	7,082	\$ 2,864	\$	3,072	\$	1,033	\$ 1,190
Period-end total assets	\$ 3,153,090	\$	3,072,953	\$ 1,062,038	\$	1,149,918	\$	333,779	\$ 370,790

	Global	Bank	ing	Global	Mark	cets	All C	ther	
	 2023		2022	2023		2022	2023		2022
Net interest income	\$ 3,613	\$	3,326	\$ 674	\$	743	\$ 99	\$	37
Noninterest income	2,590		2,265	4,268		3,740	(1,717)		(836)
Total revenue, net of interest expense	6,203		5,591	4,942		4,483	(1,618)		(799)
Provision for credit losses	(119)		170	(14)		11	(24)		(58)
Noninterest expense	2,804		2,651	3,235		3,023	593		716
Income before income taxes	3,518		2,770	1,721		1,449	(2,187)		(1,457)
Income tax expense	950		734	473		384	(2,276)		(1,176)
Net income	\$ 2,568	\$	2,036	\$ 1,248	\$	1,065	\$ 89	\$	(281)
Period-end total assets	\$ 588,578	\$	575,442	\$ 864,792	\$	848,752	\$ 303,903	\$	128,051

⁽¹⁾ There were no material intersegment revenues.

Results of Business Segments and All Other

At and for the nine months ended September 30	Total Cor	pora	tion ⁽¹⁾	Consume	r Ba	nking	G	Global Wealth Manag	
(Dollars in millions)	 2023		2022	2023		2022		2023	2022
Net interest income	\$ 43,407	\$	38,096	\$ 25,421	\$	21,551	\$	5,436	\$ 5,451
Noninterest income	33,637		32,637	6,281		6,302		10,442	10,887
Total revenue, net of interest expense	77,044		70,733	31,702		27,853		15,878	16,338
Provision for credit losses	3,290		1,451	3,753		1,036		32	29
Noninterest expense	48,114		45,895	16,182		14,977		11,942	11,706
Income before income taxes	25,640		23,387	11,767		11,840		3,904	4,603
Income tax expense	2,269		2,991	2,942		2,901		976	1,128
Net income	\$ 23,371	\$	20,396	\$ 8,825	\$	8,939	\$	2,928	\$ 3,475
Period-end total assets	\$ 3,153,090	\$	3,072,953	\$ 1,062,038	\$	1,149,918	\$	333,779	\$ 370,790

	Global	Bank	ing	Global I	Mark	cets	All C	ther	•
	 2023		2022	2023		2022	2023		2022
Net interest income	\$ 11,210	\$	8,304	\$ 1,080	\$	2,717	\$ 260	\$	73
Noninterest income	7,658		7,487	14,359		11,560	(5,103)		(3,599)
Total revenue, net of interest expense	18,868		15,791	15,439		14,277	(4,843)		(3,526)
Provision for credit losses	(347)		492	(71)		24	(77)		(130)
Noninterest expense	8,563		8,133	9,935		9,249	1,492		1,830
Income before income taxes	10,652		7,166	5,575		5,004	(6,258)		(5,226)
Income tax expense	2,876		1,899	1,533		1,326	(6,058)		(4,263)
Net income	\$ 7,776	\$	5,267	\$ 4,042	\$	3,678	\$ (200)	\$	(963)
Period-end total assets	\$ 588,578	\$	575,442	\$ 864,792	\$	848,752	\$ 303,903	\$	128,051

⁽¹⁾ There were no material intersegment revenues.

The table below presents noninterest income and the associated components for the three and nine months ended September 30, 2023 and 2022 for each business segment, *All Other* and the total Corporation. For more information, see *Note 2 – Net Interest Income and Noninterest Income*.

Noninterest Income by Business Segment and All Other

										Global V		
		Total Co	rpora			Consume			_	nvestment N	Mana	gement
					hree	Months End	led S		30			
(Dollars in millions)	2	023		2022		2023		2022		2023		2022
Fees and commissions:												
Card income												
Interchange fees	\$	994	\$	1,060	\$	789	\$	834	\$	(5)	\$	4
Other card income		526		513		536		497		14		12
Total card income		1,520		1,573		1,325		1,331		9		16
Service charges												
Deposit-related fees		1,124		1,162		605		597		10		18
Lending-related fees		340		304		_		_		10		_
Total service charges		1,464		1,466		605		597		20		18
Investment and brokerage services												
Asset management fees		3,103		2,920		51		47		3,054		2,874
Brokerage fees		860		875		29		26		342		381
Total investment and brokerage services		3,963		3,795		80		73		3,396		3,255
Investment banking fees												
Underwriting income		531		452		_		_		45		47
Syndication fees		209		283		_		_		_		_
Financial advisory services		448		432		_		_		_		_
Total investment banking fees		1,188		1,167		_		_		45		47
Total fees and commissions		8,135		8,001		2,010		2,001		3,470		3,336
Market making and similar activities		3,325		3,068		5		3		34		30
Other income (loss)		(672)		(332)		66		116		62		82
Total noninterest income	\$	10,788	\$	10,737	\$	2,081	\$	2,120	\$	3,566	\$	3,448

	Global	Banki	ng	G	lobal l	Marke	ets	All Other (1)				
	 Three Months Ended September 30											
	 2023	2023 2022		2023		2022		2023	202	22		
Fees and commissions:												
Card income												
Interchange fees	\$ 194	\$	204	\$	16	\$	18	\$ —	\$	_		
Other card income	3		2		_		_	(27)		2		
Total card income	197		206		16		18	(27)		2		
Service charges												
Deposit-related fees	490		524		19		24	_		(1)		
Lending-related fees	264		247		66		57	_		_		
Total service charges	754		771		85		81	_		(1)		
Investment and brokerage services												
Asset management fees	_		_		_		_	(2)		(1)		
Brokerage fees	14		11		475		457	_		_		
Total investment and brokerage services	14		11		475		457	(2)		(1)		
Investment banking fees												
Underwriting income	230		181		318		260	(62)		(36)		
Syndication fees	117		148		92		135	_		_		
Financial advisory services	396		397		53		35	(1)		_		
Total investment banking fees	743		726		463		430	(63)		(36)		
Total fees and commissions	1,708		1,714	1	,039		986	(92)		(36)		
Market making and similar activities	21		52	3	195		2,874	70		109		
Other income (loss)	861		499		34		(120)	(1,695)		(909		
Total noninterest income	\$ 2,590	\$	2,265	\$ 4	268	\$	3,740	\$ (1,717)	\$	(836)		

 $^{^{\}left(1\right)}$ $\,$ All Other includes eliminations of intercompany transactions.

Noninterest Income by Business Segment and All Other

	Total Corporation Consumer Banking							Global Wealth & Investment Management				
			ı	Nine I	Months End	ed S	eptember 3	0				
(Dollars in millions)	2023		2022		2023		2022	2023			2022	
Fees and commissions:												
Card income												
Interchange fees	\$ 2,973	\$	3,067	\$	2,350	\$	2,430	\$	(8)	\$	15	
Other card income	1,562		1,464		1,590		1,406		41		36	
Total card income	4,535		4,531		3,940		3,836		33		51	
Service charges												
Deposit-related fees	3,266		4,109		1,729		2,120		31		56	
Lending-related fees	972		907		_		_		26		_	
Total service charges	4,238		5,016		1,729		2,120		57		56	
Investment and brokerage services												
Asset management fees	8,990		9,308		147		149		8,848		9,164	
Brokerage fees	2,664		2,870		83		83		1,037		1,231	
Total investment and brokerage services	11,654		12,178		230		232		9,885		10,395	
Investment banking fees												
Underwriting income	1,757		1,559		_		_		124		154	
Syndication fees	620		896		_		_		_		_	
Financial advisory services	1,186		1,297		_		_		_		_	
Total investment banking fees	3,563		3,752		_		_		124		154	
Total fees and commissions	23,990		25,477		5,899		6,188		10,099		10,656	
Market making and similar activities	11,734		9,023		15		5		100		66	
Other income (loss)	(2,087)		(1,863)		367		109		243		165	
Total noninterest income	\$ 33,637	\$	32,637	\$	6,281	\$	6,302	\$	10,442	\$	10,887	

		Global	Banki	ing		Global Markets				L)		
	Nine Months Ended September 30											
		2023		2022		2023 2022		2023		2022		
Fees and commissions:												
Card income												
Interchange fees	\$	580	\$	573	\$	51	\$	49	\$	_	\$	_
Other card income		7		5		_		_		(76)		17
Total card income		587		578		51		49		(76)		17
Service charges												
Deposit-related fees		1,446		1,849		59		80		1		4
Lending-related fees		757		741		189		166		_		_
Total service charges		2,203		2,590		248		246		1		4
Investment and brokerage services												
Asset management fees		_		_		_		_		(5)		(5)
Brokerage fees		37		36		1,507		1,520		_		_
Total investment and brokerage services		37		36		1,507		1,520		(5)		(5)
Investment banking fees												
Underwriting income		742		635		1,016		944		(125)		(174)
Syndication fees		345		466		275		430		_		_
Financial advisory services		1,042		1,197		144		99		_		1
Total investment banking fees		2,129		2,298		1,435		1,473		(125)		(173)
Total fees and commissions		4,956		5,502		3,241		3,288		(205)		(157)
Market making and similar activities		135		181		11,002		8,721		482		50
Other income (loss)		2,567		1,804		116		(449)		(5,380)		(3,492)
Total noninterest income	\$	7,658	\$	7,487	\$	14,359	\$	11,560	\$	(5,103)	\$	(3,599)

⁽¹⁾ All Other includes eliminations of intercompany transactions.

Business Segment Reconciliations

	Three Months Ended September 30					Nine Months Ended September 30					
(Dollars in millions)	2023	2022			2023		2022				
Segments' total revenue, net of interest expense	26,938	\$	25,407	\$	81,887	\$	74,259				
Adjustments (1):											
Asset and liability management activities	28		(13)		(404)		(146)				
Liquidating businesses, eliminations and other	(1,646)		(786)		(4,439)		(3,380)				
FTE basis adjustment	(153)		(106)		(422)		(315)				
Consolidated revenue, net of interest expense	25,167	\$	24,502	\$	76,622	\$	70,418				
Segments' total net income	7,713		7,363		23,571		21,359				
Adjustments, net-of-tax (1):											
Asset and liability management activities	16		(24)		(309)		(106)				
Liquidating businesses, eliminations and other	73		(257)		109		(857)				
Consolidated net income	7,802	\$	7,082	\$	23,371	\$	20,396				

	September 30					
		2023	2022			
Segments' total assets	\$	2,849,187 \$	2,944,902			
Adjustments ⁽¹⁾ :						
Asset and liability management activities, including securities portfolio		1,185,910	1,129,824			
Elimination of segment asset allocations to match liabilities		(945,715)	(1,065,057)			
Other		63,708	63,284			
Consolidated total assets	\$	3,153,090 \$	3,072,953			

⁽¹⁾ Adjustments include consolidated income, expense and asset amounts not specifically allocated to individual business segments.

Glossary

Alt-A Mortgage – A type of U.S. mortgage that is considered riskier than A-paper, or "prime," and less risky than "subprime," the riskiest category. Typically, Alt-A mortgages are characterized by borrowers with less than full documentation, lower credit scores and higher LTVs.

Assets Under Management (AUM) – The total market value of assets under the investment advisory and/or discretion of GWIM which generate asset management fees based on a percentage of the assets' market values. AUM reflects assets that are generally managed for institutional, high net worth and retail clients, and are distributed through various investment products including mutual funds, other commingled vehicles and separate accounts.

Banking Book – All on- and off-balance sheet financial instruments of the Corporation except for those positions that are held for trading purposes.

Brokerage and Other Assets – Non-discretionary client assets which are held in brokerage accounts or held for safekeeping.

Committed Credit Exposure – Any funded portion of a facility plus the unfunded portion of a facility on which the lender is legally bound to advance funds during a specified period under prescribed conditions.

Credit Derivatives – Contractual agreements that provide protection against a specified credit event on one or more referenced obligations.

Credit Valuation Adjustment (CVA) – A portfolio adjustment required to properly reflect the counterparty credit risk exposure as part of the fair value of derivative instruments.

Debit Valuation Adjustment (DVA) – A portfolio adjustment required to properly reflect the Corporation's own credit risk exposure as part of the fair value of derivative instruments and/or structured liabilities.

Funding Valuation Adjustment (FVA) – A portfolio adjustment required to include funding costs on uncollateralized derivatives and derivatives where the Corporation is not permitted to use the collateral it receives.

Interest Rate Lock Commitment (IRLC) – Commitment with a loan applicant in which the loan terms are guaranteed for a designated period of time subject to credit approval.

Letter of Credit – A document issued on behalf of a customer to a third party promising to pay the third party upon presentation of specified documents. A letter of credit effectively substitutes the issuer's credit for that of the customer.

Loan-to-value (LTV) – A commonly used credit quality metric. LTV is calculated as the outstanding carrying value of the loan divided by the estimated value of the property securing the loan.

Macro Products – Include currencies, interest rates and commodities products.

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 Right (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.

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.

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.

Key Metrics

Active Digital Banking Users – Mobile and/or online active users over the past 90 days.

Active Mobile Banking Users – Mobile active users over the past 90 days.

Book Value – Ending common shareholders' equity divided by ending common shares outstanding.

Common Equity Ratio - Ending common shareholders' equity divided by ending total assets.

Deposit Spread – Annualized net interest income divided by average deposits.

Dividend Payout Ratio – Common dividends declared divided by net income applicable to common shareholders.

Efficiency Ratio – Noninterest expense divided by total revenue, net of interest expense.

Gross Interest Yield – Effective annual percentage rate divided by average loans.

Net Interest Yield – Net interest income divided by average total interest-earning assets.

Operating Margin – Income before income taxes divided by total revenue, net of interest expense.

Return on Average Allocated Capital – Adjusted net income divided by allocated capital.

Return on Average Assets – Net income divided by total average assets.

Return on Average Common Shareholders' Equity – Net income applicable to common shareholders divided by average common shareholders' equity.

Return on Average Shareholders' Equity – Net income divided by average shareholders' equity.

Risk-adjusted Margin – Difference between total revenue, net of interest expense, and net credit losses divided by average loans.

Acronyms

GWIM Global Wealth & Investment Management ABS Asset-backed securities **HELOC** Home equity line of credit **AFS** Available-for-sale **HQLA** High Quality Liquid Assets Asset and liability management ALM HTM Held-to-maturity AUM Assets under management **IRLC** Interest rate lock commitment **BANA** Bank of America, National Association **ISDA** International Swaps and Derivatives Association, **BHC** Bank holding company **BofAS** BofA Securities, Inc. LCR Liquidity Coverage Ratio **BofASE** BofA Securities Europe SA **LHFS** Loans held-for-sale bps Basis points **LIBOR** London Interbank Offered Rate **CCAR** Comprehensive Capital Analysis and Review LTV Loan-to-value CDO Collateralized debt obligation **MBS** Mortgage-backed securities **CECL** Current expected credit losses MD&A Management's Discussion and Analysis of CET1 Common equity tier 1 Financial Condition and Results of Operations **CFTC Commodity Futures Trading Commission** MLI Merrill Lynch International CLO Collateralized loan obligation MLPCC Merrill Lynch Professional Clearing Corp **CLTV** Combined loan-to-value MLPF&S Merrill Lynch, Pierce, Fenner & Smith Incorporated **CVA** Credit valuation adjustment MSA Metropolitan Statistical Area DVA Debit valuation adjustment **MSR** Mortgage servicing right **ECL** Expected credit losses **NSFR** Net Stable Funding Ratio **EPS** Earnings per common share OCI Other comprehensive income **ESG** Environmental, social and governance **OREO** Other real estate owned **FDIC** Federal Deposit Insurance Corporation **PCA Prompt Corrective Action FHA** Federal Housing Administration PPP Paycheck Protection Program **FHLB** Federal Home Loan Bank **RMBS** Residential mortgage-backed securities **FHLMC** Freddie Mac **RWA** Risk-weighted assets FICC Fixed income, currencies and commodities SBA **Small Business Administration FICO** Fair Isaac Corporation (credit score) **SBLC** Standby letter of credit **FNMA** Fannie Mae SCB Stress capital buffer FTE Fully taxable-equivalent SEC Securities and Exchange Commission **FVA** Funding valuation adjustment SLR Supplementary leverage ratio **GAAP** Accounting principles generally accepted in the **SOFR** Secured Overnight Financing Rate United States of America **TDR** Troubled debt restructuring GLS Global Liquidity Sources TLAC Total loss-absorbing capacity **GNMA** Government National Mortgage Association VaR G-SIB Global systemically important bank Value-at-Risk VIE Variable interest entity

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 2022 Annual Report on Form 10-K.

Item 1A. Risk Factors

There are no material changes from the risk factors set forth under Part 1, Item 1A. Risk Factors of the Corporation's 2022 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, 2023. 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 ^(1,2)	Α	Weighted- verage Per share Price	Total Shares Purchased as Part of Publicly Announced Programs ⁽²⁾	lemaining Buyback Authority mounts ⁽³⁾
July 1 - 31, 2023	7,805	\$	31.96	7,804	\$ 13,960
August 1 - 31, 2023	20,364		30.81	18,648	13,643
September 1 - 30, 2023	6,081		28.73	6,075	13,553
Three months ended September 30, 2023	34,250		30.70	32,527	

⁽¹⁾ Includes 1.7 million 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 re-issuance to certain employees under equity incentive plans.

The Corporation did not have any unregistered sales of equity securities during the three months ended September 30, 2023.

Item 5. Other Information

Trading Arrangements

During the fiscal quarter ended September 30, 2023, none of the Corporation's directors or officers (as defined in Rule 16a-1(f) of the Securities Exchange Act of 1934, as amended) adopted or terminated a Rule 10b5-1 trading arrangement or non-Rule 10b5-1 trading arrangement (in each case, as defined in Item 408(a) of Regulation S-K) for the purchase or sale of the Corporation's securities.

^[2] In October 2021, the Corporation's Board of Directors (Board) authorized the repurchase of up to \$25 billion of common stock over time (October 2021 Authorization). Additionally, the Board authorized repurchases to offset shares awarded under equity-based compensation plans. During the three months ended September 30, 2023, pursuant to the Board's authorizations, the Corporation repurchased 33 million shares, or \$1.0 billion, of its common stock, including repurchases to offset shares awarded under equity-based compensation plans. For more information, see Capital Management - CCAR and Capital Planning in the MD&A on page 22 and Note 11 - Shareholders' Equity to the Consolidated Financial Statements.

Remaining Buyback Authority Amounts represents the remaining buyback authority of the October 2021 Authorization. Excludes repurchases to offset shares awarded under equity-based compensation plans

Item 6. Exhibits

		,	ı	ncorporat	ed by Referer	nce
Exhibit No.	Description	Notes	Form	Exhibit	Filing Date	File No.
3.1	Restated Certificate of Incorporation, as amended and in effect on the date hereof		10-Q	3.1	4/29/22	1-6523
3.2	Amended and Restated Bylaws of the Corporation as in effect on the date hereof		10-K	3.2	2/22/23	1-6523
22	Subsidiary Issuers of Guaranteed Securities		10-K	22	2/22/23	1-6523
31.1	Certification of the Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002	1				
31.2	Certification of the Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002	1				
32.1	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	2				
32.2	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	2				
101.INS	Inline XBRL Instance Document	3				
101.SCH	Inline XBRL Taxonomy Extension Schema Document	1				
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document	1				
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document	1				
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document	1				
101.DEF	Inline XBRL Taxonomy Extension Definitions Linkbase Document	1				
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101)					

⁽¹⁾ Filed herewith.

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 31, 2023 /s/ Rudolf A. Bless

Rudolf A. Bless Chief Accounting Officer

⁽²⁾ Furnished herewith. This exhibit shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, or otherwise subject to the liability of that Section. Such exhibit shall not be deemed incorporated into any filing under the Securities Act of 1933 or the Securities Exchange Act of 1934.

shall not be deemed incorporated into any filing under the Securities Act of 1933 or the Securities Exchange Act of 1934.

(3) The instance document does not appear in the interactive data file because its XBRL tags are embedded within the inline XBRL document.

CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002 FOR THE CHIEF EXECUTIVE OFFICER

I, Brian T. Moynihan, certify that:

- 1. I have reviewed this Quarterly Report on Form 10-Q of Bank of America Corporation;
- Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: October 31, 2023

/s/ Brian T. Moynihan
Brian T. Moynihan
Chief Executive Officer

CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002 FOR THE CHIEF FINANCIAL OFFICER

I, Alastair M. Borthwick, certify that:

- 1. I have reviewed this Quarterly Report on Form 10-Q of Bank of America Corporation;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: October 31, 2023

/s/ Alastair M. Borthwick
Alastair M. Borthwick
Chief Financial Officer

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

- I, Brian T. Moynihan, state and attest that:
 - 1. I am the Chief Executive Officer of Bank of America Corporation (the registrant).
 - 2. I hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:
 - the Quarterly Report on Form 10-Q of the registrant for the quarter ended September 30, 2023 (the periodic report) containing financial statements fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)); and
 - the information contained in the periodic report fairly presents, in all material respects, the financial condition and results of operations of the registrant.

/s/ Brian T. Moynihan Date: October 31, 2023 Brian T. Moynihan Chief Executive Officer

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

- I, Alastair M. Borthwick, state and attest that:
 - 1. I am the Chief Financial Officer of Bank of America Corporation (the registrant).
 - 2. I hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:
 - the Quarterly Report on Form 10-Q of the registrant for the quarter ended September 30, 2023 (the periodic report) containing financial statements fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)); and
 - the information contained in the periodic report fairly presents, in all material respects, the financial condition and results of operations of the registrant.

Date: October 31, 2023

/s/ Alastair M. Borthwick Alastair M. Borthwick Chief Financial Officer