# 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

For the transition period from to

Commission file number:

1-6523

Exact name of registrant as specified in its charter:

Bank of America Corporation

State or other jurisdiction of incorporation or organization:

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 of Bank of America Corporation Floating Rate Non-Cumulative Preferred Stock, Series 2	BML PrH	New York Stock Exchange
Depositary Shares, each representing a 1/1,200th interest in a share of Bank of America Corporation Floating Rate  Non-Cumulative Preferred Stock, Series 4	BML PrJ	New York Stock Exchange
Depositary Shares, each representing a 1/1,200th interest in a share of Bank of America Corporation Floating Rate Non-Cumulative Preferred Stock, Series 5	BML PrL	New York Stock Exchange
Floating Rate Preferred Hybrid Income Term Securities of BAC Capital  Trust XIII (and the guarantee related thereto)	BAC/PF	New York Stock Exchange
5.63% Fixed to Floating Rate Preferred Hybrid Income Term Securities of BAC Capital Trust XIV (and the guarantee related thereto)	BAC/PG	New York Stock Exchange
Income Capital Obligation Notes initially due December 15, 2066 of Bank of America Corporation	MER PrK	New York Stock Exchange
Senior Medium-Term Notes, Series A, Step Up Callable Notes, due  November 28, 2031 of BofA Finance LLC (and the guarantee  of the Registrant with respect thereto)	BAC/31B	New York Stock Exchange
Depositary Shares, each representing a 1/1,000th interest in a share of 5.375% Non-Cumulative Preferred Stock, Series KK	BAC PrM	New York Stock Exchange
Depositary Shares, each representing a 1/1,000th interest in a share of 5.000% Non-Cumulative Preferred Stock, Series LL	BAC PrN	New York Stock Exchange
Depositary Shares, each representing a 1/1,000th interest in a share of 4.375% Non-Cumulative Preferred Stock, Series NN	BAC PrO	New York Stock Exchange
Depositary Shares, each representing a 1/1,000th interest in a share of 4.125% Non-Cumulative Preferred Stock, Series PP	BAC PrP	New York Stock Exchange
Depositary Shares, each representing a 1/1,000th interest in a share of 4.250% Non-Cumulative Preferred Stock, Series QQ	BAC PrQ	New York Stock Exchange
Depositary Shares, each representing a 1/1,000th interest in a share of 4.750% Non-Cumulative Preferred Stock, Series SS	BAC PrS	New York Stock Exchange
Indicate by check mark whether the registrant (1) has filed all reports required to be 12 months (or for such shorter period that the registrant was required to file such reports and the registrant was required to file such reports.		
Indicate by check mark whether the registrant has submitted electronically every In 232.405 of this chapter) during the preceding 12 months (or for such shorter period the	teractive Data File required to b	
Indicate by check mark whether the registrant is a large accelerated filer, an acceler company. See the definitions of "large accelerated filer," "accelerated filer," "smaller registrant is a large accelerated filer," "accelerated filer," "smaller registrant is a large accelerated filer," "smaller registrant is		
Large accelerated filer   ✓ Accelerated filer   □	Non-accelerated filer	□ Smaller reporting company □
Emerging growth company $\square$		
If an emerging growth company, indicate by check mark if the registrant has elected accounting standards provided pursuant to Section 13(a) of the Exchange Act. $\Box$	not to use the extended transition	n period for complying with any new or revised financial
Indicate by check mark whether the registrant is a shell company (as defined in Exch	ange Act Rule 12b-2). □ No ☑	
On October 30, 2023, there were 7,913,732,014 shares of Bank of America Corporati		

# 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." Forward-looking 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 forwardlooking 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, husiness

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) fillings, 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

# Financial Highlights

Table 1	Summary Income Statement and Selected Fi	nancial Data
Table T	Summary income Statement and Selected Fi	nanciai Data

	Three Months E	nded Sep		Nine Months En	eptember 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 %	6	0.90 %	6	1.00 %	b	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		December 31 2022
Balance sheet				-	-		

	Ocptember of Et		DCCCTTDCT OT ZCZZ
Balance sheet			
Total loans and leases	\$ 1,049,1	49 3	\$ 1,045,747
Total assets	3,153,0	90	3,051,375
Total deposits	1,884,6	01	1,930,341
Total liabilities	2,866,0	26	2,778,178
Total common shareholders' equity	258,6	67	244,800
Total shareholders' equity	287,0	64	273,197

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.

<sup>(1)</sup> For definitions, see Key Metrics on page 106.
(2) Return on average tangible according 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

	Т	hree Months En	ded Se	ptember 30	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 nine-month 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 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 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.

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# **Noninterest Expense**

#### Table 3 Noninterest Expense

	Three Months En	Nine Months End	ptember 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

_	Th	ree Months E	nded Se	eptember 30		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 %		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.

Bank of America 6

# 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

			21	023 Quarters				2022 (	Quarte	•		Nine wo	mber 3	
(In millions, except per share information)	_	Third		Second		First	_	Fourth	guai te	Third		2023	111001 0	2022
Income statement				Cocona				, out an				2020		LULL
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	Ψ	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		0,010.0		0,000.7		0,102.0		0,100.7		0,100.0		0,100.4		0,170.0
Return on average assets (1)		0.99 %		0.94 %		1.07 %		0.92 %		0.90 %		1.00 %		0.86 9
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 <sup>(3)</sup>		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		1.27 %		1.24 %		1.20 %		1.22 %		1.20 %				
Allowance for loan and lease losses as a percentage of total nonperforming loans and lease§)		275		314		319		333		309				
Net charge-offs	\$	931	\$	869	\$	807	\$	689	\$	520				
Annualized net charge-offs as a percentage of average loans and leases outstanding <sup>5)</sup>		0.35 %		0.33 %		0.32 %		0.26 %		0.20 %	_			
Capital ratios at period end (6)														
Common equity tier 1 capital		11.9 %		11.6 %		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				
				6.1		5.8		5.9		5.7	_			
Tangible common equity (3)		6.1												
Total loss-absorbing capacity and long-term debt metrics														
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 and long-term debt metrics  Total loss-absorbing capacity to risk-weighted assets  Total loss-absorbing capacity to supplementary leverage exposure		29.3 % 13.3		28.8 % 13.0		13.1		13.2		13.0				
Total loss-absorbing capacity and long-term debt metrics Total loss-absorbing capacity to risk-weighted assets		29.3 %		28.8 %										

Nine Months Ended

<sup>(1)</sup> 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 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.

Table 6 Quarterly Average Balances and Interest Rates - FTE Basis

	Interest Average Income/ Balance Expense (1)		Yield/ Rate		Average Balance		Interest Income/ Expense (1)	Yield/ Rate		
(Dollars in millions)			Thir	rd Quarter 2023				Thir	rd Quarter 2022	
Earning assets										
Interest-bearing deposits with the Federal Reserve, non-U.S. central banks and other banks	\$	353,183	\$	4,613	5.18 %	6	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		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		589,409		8,679	5.84		585,269		5,317	3.61
Total loans and leases		1,046,254		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	\$	3,128,466			Ş	6	3,105,546			
Interest-bearing liabilities										
U.S. interest-bearing deposits										
Demand and money market deposits	\$	942,368	\$	4,304	1.81 %	6	981,145	\$	832	0.34 %
Time and savings deposits		271,425		2,149	3.14		164,313		193	0.47
Total U.S. interest-bearing deposits		1,213,793		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		1,310,888		7,340	2.22		1,224,841		1,235	0.40
Federal funds purchased and securities loaned or sold under agreements		1,010,000		1,010			.,== .,=		-,	
to repurchase		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		2,040,182		19,245	3.75		1,870,151		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	\$	3,128,466			,	5	3,105,546			
Net interest spread					1.15 %					1.70 %
Impact of noninterest-bearing sources					0.96					0.36
Net interest income/yield on earning assets (5)			\$	14,532	2.11 %			\$	13,871	2.06 %

<sup>(1)</sup> 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 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

		Average Balance	E	Interest Income/ Expense (1)	Yield/ Rate	Average Balance		Interest Income/ Expense (1)	Yield/ Rate
	-	Dululioo			Nine Months Ended S			жропоо	riaio
(Dollars in millions)	-			2023	Timo monaro Enada (	optombo. cc		2022	
Earning assets	-			2020				2022	
Interest-bearing deposits with the Federal Reserve, non-U.S. central banks and other banks	s	305,526	\$	10.915	4.78 % \$	202,293	\$	1,216	0.80 %
Time deposits placed and other short-term investments	•	10.153	٠	350	4.61	9.091	v	58	0.86
Federal funds sold and securities borrowed or purchased under		10,100		000	4.01	0,001		00	0.00
agreements to resell		289,823		13,555	6.25	293,971		1,835	0.83
Trading account assets		187,481		6,375	4.54	154,428		3,802	3.29
Debt securities		791,339		14,887	2.50	940,808		12,164	1.72
Loans and leases (2)									
Residential mortgage		229,010		5,133	2.99	227,010		4,712	2.77
Home equity		26,041		1,060	5.44	27,492		684	3.32
Credit card		94,775		7,658	10.80	81,505		6,081	9.97
Direct/Indirect and other consumer		104,896		3,814	4.86	107,204		2,198	2.74
Total consumer		454,722		17,665	5.19	443,211		13,675	4.12
U.S. commercial		377,873		14,318	5.07	362,669		8,079	2.98
Non-U.S. commercial		125,525		5,815	6.19	124,965		2,228	2.38
Commercial real estate (3)		72,927		3,811	6.99	64,295		1,601	3.33
Commercial lease financing		13,709		462	4.50	14,071		334	3.17
Total commercial		590,034		24,406	5.53	566,000		12,242	2.89
Total loans and leases		1,044,756		42,071	5.38	1,009,211		25,917	3.43
Other earning assets		98.857		6,902	9.33	108,968		2,813	3.45
Total earning assets		2,727,935		95,055	4.66	2,718,770		47,805	2.35
Cash and due from banks		26,544		,		28,116		,	
Other assets, less allowance for loan and lease losses		378.936				409,771			
Total assets	\$	3,133,415			\$	3,156,657			
Interest-bearing liabilities									
U.S. interest-bearing deposits									
Demand and money market deposits	\$	956,165	s	10,659	1.49 % \$	989,364	\$	1,101	0.15 %
Time and savings deposits	•	233,079	•	4,520	2.59	161,707	•	275	0.23
Total U.S. interest-bearing deposits		1,189,244		15,179	1.71	1,151,071		1,376	0.16
Non-U.S. interest-bearing deposits		95,187		2,260	3.17	80,235		343	0.57
Total interest-bearing deposits		1,284,431		17,439	1.82	1,231,306		1,719	0.19
Federal funds purchased and securities loaned or sold under agreements		.,,		,		1,==1,===		.,	
to repurchase		291,349		14,700	6.75	214,404		1,871	1.17
Short-term borrowings and other interest-bearing liabilities		153,653		7,464	6.49	132,873		834	0.84
Trading account liabilities		45,675		1,486	4.35	54,852		1,117	2.72
Long-term debt		246,357		10,559	5.72	247,357		4,168	2.25
Total interest-bearing liabilities		2,021,465		51,648	3.41	1,880,792		9,709	0.69
Noninterest-bearing sources									
Noninterest-bearing deposits		597,224				775,278			
Other liabilities (4)		233,147				231,073			
Shareholders' equity		281,579				269,514			
Total liabilities and shareholders' equity	\$	3,133,415			\$	3,156,657			
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, 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 \$57.2 billion and \$67.2 billion and \$60.0 billion and non-U.S. commercial real estate loans of \$5.8 billion and \$4.3 billion for the nine months ended September 30, 2023 and 2022.
(4) Includes \$93.5 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**

	 De	posits			Consume	r Lend	ling	Total Cons	umer l	Banking	
				1	Three Months End	ded Se	ptember 30				
(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	%	24.5 %	
Net interest yield	2.26	%	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											
				1	Three Months End	ded Se	•				
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

<sup>(1)</sup> 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

		De	posit	ts		Consum	er Le	ending		Total Cons	ume	er Banking	
						Nine Months En	ded	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 9
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/r
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	%	24.5 %	
Net interest yield		2.29	%	1.70 %		3.66 %	%	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													
						Nine Months En	ded						
Average	<del></del>	2023		2022		2023		2022		2023		2022	% Change
Total loans and leases	\$	4,113	\$	4,171	\$	302,978	\$	285,501	\$	307,091	\$	289,672	6 9
Total earning assets (2)		1,000,143		1,062,668		303,266		287,422		1,043,476		1,104,653	(6)
Total assets (2)		1,033,618		1,095,830		309,435		294,193		1,083,120		1,144,587	(5)
Total deposits		998,947		1,061,876		5,094		5,909		1,004,041		1,067,785	(6)
Allocated capital		13,700		13,000		28,300		27,000		42,000		40,000	5
Period end		September 30 2023		December 31 2022		September 30 2023		December 31 2022		September 30 2023		December 31 2022	% Change
Total loans and leases	\$	4,165	•	4.148	\$	309.051	•	300.613	\$	313,216	•	304,761	3 <sup>(</sup>
Total earning assets (2)	ą.	978,133	φ	1,043,049	φ	309,527	φ	300,787	φ	1,023,162	φ	1,085,079	(6)
Total assets (2)		1,010,771		1,077,203		315,765		308,007		1,062,038		1,126,453	(6)
I VIGI GOODIO '		1,010,771											(0)

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, downfrom 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 non-sufficient 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

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	September 30	Nine Months En	nded September 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	

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.

Includes deposits held in Consumer Lending.
 Includes client brokerage assets, deposit sweep balances, Bank of America, N.A. brokered CDs and AUM in Consumer Banking.
 Represents mobile and/or online active users over the past 90 days.
 Represents mobile active users over the past 90 days.

#### Key Statistics - Consumer Lending

	T	Three Months Er	nded Se	ptember 30	Nine Months Ended September 30					
(Dollars in millions)		2023		2022	2023		2022			
Total credit card <sup>(1)</sup>										
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			

Includes GWIM's credit card portfolio.
 Calculated as the effective annual percentage rate divided by average loans.
 Calculated as the difference between total revenue, net of interest expense, and net credit losses divided by average loans.

During the three and nine months ended September 30, 2023, the total riskadjusted 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 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)

	 Three Months En	ded S	eptember 30	Nine Months Ended September 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 <sup>(2)</sup> :								
First mortgage	\$ 5,596	\$	8,724	\$	15,473	\$	39,548	
Home equity	2,421		2,420		7,559		6,995	

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

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

First mortgage loan originations 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.

# Global Wealth & Investment Management

	 Three Months E	nded Se	ptember 30			Nine Months Er	nded S	eptember 30	
(Dollars in millions)	 2023		2022	% Change		2023		2022	% Change
Net interest income	\$ 1,755	\$	1,981	(11)%	\$	5,436	\$	5,451	— <sup>9</sup>
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									
	 Three Months E	nded Se	ptember 30			Nine Months Er	nded S	eptember 30	
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					_	September 30 2023		December 31 2022	% Change
Total loans and leases					\$	218,913	\$	223,910	(2) %
Total earning assets						320.196		355,461	(10)

*GWIM* consists of two primary businesses: Merrill Wealth Management andBank 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

Total assets Total deposits

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.

333,779

290,732

368.893

323,899

(10)

(10)

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 *GWM* 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 revenuerelated 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

		Three Months En	ded Se	eptember 30	Nine Months En	ded Se	ptember 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

<sup>(</sup>i) Includes margin receivables which are classified in customer and other receivables on the Consolidated Balance Sheet. (2) Includes advisors across all wealth management businesses in GWIM and Consumer Banking.

# **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.

Bank of America 16

# Global Banking

	Three Months E	nded Se	eptember 30		Nine Months Er	nded Sep	otember 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 %	6	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								
	 Three Months E	nded Se	eptember 30		 Nine Months E	nded Sep	otember 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)

	Tillee Molitils L	nueu oe	pteniber 30		Mille Molitile Li	iueu oepi	eniber 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
Ported and				_	September 30	D	h 04 0000	0/ Oh
Period end				_	2023	Dec	ember 31 2022	% Change
Total loans and leases				\$	373,351	\$	379,107	(2) %
Total earning assets					521,423		522,539	_
Total assets					588,578		588,466	_

n/m = not meaningful

Total deposits

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 prior-year 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.

494,938

498.661

(1)

# 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 prior-year 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 prior-year 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-vear 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 Corporate Banking   Global Commercial Banking   Business Banking   Three Months Ended September 30			king	To	otal								
						Th	rree Months Er	ded	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	<del></del>													
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 Corp	oroto	Panking	Global Comm	orois	al Pankina		Busines	. Par	ıkina	т.	otal	
		Global Corp	orate	Dalikiliy	Giobai Collin		line Months En	ded S		5 Dai	ikilig	- 10	otai	
(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 Banking Total Corporation									Global	Bank	king		Total Corporation		
			Thre	ee Months En	ded	September 30	)				Nin	e Months End	ded S	September 30		
(Dollars in millions)	20	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**

	 Three Months Er	ided Se	ptember 30		Nine Months Ended	September 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/n
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/n
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	

	Three Months Ended September 30				ember 30			
	 2023		2022	% Change	2023		2022	% Change
Average								
Trading-related assets:								
Trading account securities	\$ 307,990	\$	308,514	<b>- % \$</b>	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)
Total trading-related assets	609,744		592,391	3	618,908		598,213	3
Total loans and leases	131,298		120,435	9	128,317		114,505	12
Total earning assets	655,971		591,883	11	647,386		600,477	8
Total assets	863,653		847,899	2	870,366		857,747	1
Total deposits	31,890		38,820	(18)	33,725		41,448	(19)
Allocated capital	45,500		42,500	7	45,500		42,500	7

Period end	September 30 2023	Dec	cember 31 2022	% Change
Total trading-related assets	\$ 613,009	\$	564,769	9 %
Total loans and leases	134,386		127,735	5
Total earning assets	660,172		587,772	12
Total assets	864,792		812,489	6
Total deposits	31,041		39,077	(21)

n/m = not meaningful

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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 E	nded S	ded September 30		Nine Months Ended Se		eptember 30	
(Dollars in millions)		2023	2023		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	

- For more information on sales and trading revenue, seeNote 3 Derivativesto 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 for the same periods in 2022.

  Includes Global Banking sales and trading revenue of \$133 million and \$444 million for the three and nine months ended September 30, 2023 compared to \$287 million and \$785 million for the same periods in 2022.

  Includes Global Banking 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 \$(90) million for the same periods in 2022. Equities net DVA gains (losses) were \$(13) million and \$(90) million for the same periods in 2022. Equities net DVA gains (losses) were \$(30) 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

	TI	ree Months En	ded Se	ptember 30		Nine Months End	ded Se	ptember 30	
(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									
	TI	ree Months En	ded Se	ptember 30		Nine Months End	ded Se	ptember 30	
Average		2023		2022	% Change	2023		2022	% Change

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	December 31	
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

<sup>(1)</sup> In segments where the total of liabilities and equity exceeds assets, which are generally deposit-taking segments, we allocate assets from I/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.

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 repurchase 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

#### Table 8 Bank of America Corporation Regulatory Capital under Basel 3

	ndardized broach <sup>(1)</sup>		Advanced proaches (1)	Regulatory Minimum <sup>(2)</sup>
(Dollars in millions, except as noted)		September 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
		Dec	ember 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

10 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,

(i) Capital ratios as 0 September 30, 2023 aftird December 31, 2022 are consumed using an expension of the SCB of 3.4 percent (under the Advanced approaches) or the SCB of 3.4 percent (under the CET1 capital ratio 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.

10 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.

10 Reflects total average assets adjusted for certain Tier 1 capital deductions.

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.

#### Γable 9 **Capital Composition under Basel 3**

	September 30	
Dollars in millions)	2023	December 31 2022
Total common shareholders' equity	258,667 \$	244,800
CECL transitional amount (1)	1,254	1,881
3oodwill, 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)
Sumulative 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

- (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 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

	\$ Standardized Approach	Advanced Approaches			ranced roaches
(Dollars in billions)	 September 30, 2023			December 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.

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

	_		dardized roach <sup>(1)</sup>		Advanced pproaches <sup>(1)</sup>	Regulatory Minimum <sup>(2)</sup>	
(Dollars in millions, except as noted)				Se	otember 30, 2023		
Risk-based capital metrics:	_						_
Common equity tier 1 capital	\$	5	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 %	6
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)	\$	5	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	
							Ξ.

		Dec	cember 31, 2022	
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

# **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.

<sup>(1)</sup> 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.
(2) 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.
(4) 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

			Long-term	
	TLAC (1)	Regulatory Minimum (2)	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

- 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. 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.

# **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 guarter 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

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, liquidity 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 Mor	nths Ende	ed
	Sept	ember 30		
(Dollars in billions)	:	2023	Decen	nber 31 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 Mor	nths E	nded
(Dollars in billions)	September 30 2023	De	cember 31 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

(Dollars in millions)	Remair	nder of 2023	2024	2025	2026	2027	Thereafter	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

<sup>(1)</sup> 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 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.

(2) 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-Q for the quarter ended June 30, 2023.

For more information on additional collateral and termination payments that could be required in connection with certain over-the-counter derivative contracts and other trading agreements 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

	Mo	ody's Investors Ser	vice	Standa	rd & Poor's Global 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	anding	gs	Nonpe	erforn	ning		st Due More		
(Dollars in millions)	Se	eptember 30 2023	I	December 31 2022	September 30 2023		December 31 2022		September 30 2023		December 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 %	6	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

<sup>(1)</sup> 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

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

#### Table 18 Consumer Net Charge-offs and Related Ratios

			Net Ch	arge	-offs		Net Charge-off Ratios (1)							
	Three Mor Septer				Nine Mor Septe		Three Months Septembe		Nine Months Septembe					
(Dollars in millions)	2023	2022			2023	2022	2023	2022	2023	2022				
Residential mortgage	\$ 2	\$	(3)	\$	5	\$ 73	<b>-</b> %	(0.01)%	<b>-</b> %	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	\$ 1,324	0.70	0.41	0.64	0.40				

<sup>(9)</sup> 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 fullyinsured 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.

Nesidential mortgage loans accruing past due 90 days or more are fully-insured loans. At September 30, 2022 and December 31, 2022, residential mortgage included \$180 million and \$280 million and \$30 million and \$280 million and \$30 million and \$30 million and \$480 million and \$480

#### Table 19 Residential Mortgage - Key Credit Statistics

	Reported	s <sup>(1)</sup>	Excluding Fully-	ed Loans (1)		
(Dollars in millions)	September 30 2023		December 31 2022	September 30 2023		December 31 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

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 interestonly 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**

	_	Outstar	nding	ıs <sup>(1)</sup>	_	Nonperfo	orm	ing <sup>(1)</sup>	_			Net C	ha	rge-offs			
		September 30		December 31		September 30		December 31		Three Months E	nd	ed September 30		Nine Months En	ded	September	r <b>30</b>
(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													

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

<sup>0</sup> Outstandings, accruing past due, nonperforming loans and percentages of portfolio 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	eptember 30 2023	December 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		<b>-</b> %	— %
Refreshed CLTV greater than 100		_	_
Refreshed FICO below 620		3	2

<sup>10</sup> Outstandings, accruing past due, nonperforming loans and percentages of the portfolio exclude loans accounted for under the fair value option.
12 Includes loans that are contractually current that have not yet demonstrated a sustained period of payment performance following a modification.

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.

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

		Outstar	nding	js <sup>(1)</sup>	Nonperfo	ormin	g <sup>(1)</sup>	Net Charge-Offs										
	Ser	otember 30		December 31		September 30		December 31	т	hree Months End	ded (	September 30		Mon Septer		nded 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)		

<sup>(1)</sup> 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

	Outst	andin	gs	Accruing 90 Days			Net Cha	arge-	-offs	
	September 30		December 31	September 30	December 31	Three Mo Septe			Nine Mont 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.

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Table 24 Direct/Indirect State Concentrations

		Outsta	anding	js	Nonpe	rforn	ming	Net Charge-offs								
(Dollars in millions)	s	eptember 30 2023	[	December 31 2022	September 30 2023		December 31 2022	Т	hree Months En	ded	September 30 2022	_	Nine Mon Septer 2023			_
California	\$	15.193	\$	15,516	\$ 23	\$	12	\$	5	\$	1	\$	11	\$	LULL	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  $\frac{1}{2}$ 5 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 Mo Septe	nths E			Nine Mont Septen	
(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 foreclose properties (3)	ed	0.63		0.64			

<sup>(1)</sup> 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.

collection.

Includes reprossessed 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.

#### **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

		Commerci	al Utili	zed <sup>(1)</sup>		Commercial Un	funde	ed (2, 3, 4)	<b>Total Commercial Committed</b>					
(Dollars in millions)	September 30 2023			December 31 2022 September 30 2023		September 30 2023	December 31 2022		September 30 2023		Dec	ember 31 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		698		
Total	\$	700,905	\$	704,867	\$	515,263	\$	495,346	\$	1,216,168	\$	1,200,213		

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

  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.

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

  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.

  (S) 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 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 at September 30, 2023 and December 31, 2022, which consists primarily of other marketable securities.

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.

#### Table 27 **Commercial Credit Quality**

		Outsta	anding	5		Nonpe	rformin	g		Accruing 90 Days		
(Dollars in millions)	S	September 30 2023		December 31 2022		September 30 2023		December 31 2022		September 30 2023	Dec	ember 31 2022
Commercial and industrial:												
U.S. commercial	\$	356,330	\$	358,481	\$	561	\$	553	\$	85	\$	190
Non-U.S. commercial		123,713		124,479		102		212		4		25
Total commercial and industrial		480,043		482,960		663		765		89		215
Commercial real estate		73,193		69,766		1,343		271		6		46
Commercial lease financing		13,904		13,644		18		4		5		8
		567,140		566,370		2,024		1,040		100		269
U.S. small business commercial (1)		19,233		17,560		17		14		185		355
Commercial loans excluding loans accounted for under the fair value option	\$	586,373	\$	583,930	\$	2,041	\$	1,054	\$	285	\$	624
Loans accounted for under the fair value option (2)		3,997		5,432								
Total commercial loans and leases	\$	590,370	\$	589,362								

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 (	Charg	e-offs			ff Ratios (1)		
	Three Months Ended September 30					Nine Mor Septe		Three Months Septembe		Nine Months Septembe	
(Dollars in millions)		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

<sup>(9)</sup> 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)	September 30,	2023	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	

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.

Percentages are calculated as commercial reservable criticized utilized exposure divided by total commercial reservable utilized exposure category.

<sup>10</sup> Includes card-related products.
20 Commercial for succounted for under the fair value option includes U.S. commercial of \$2.5 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.

#### 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)	Septembe 2023	r 30	De	ecember 31 2022
By Geographic Region				
Northeast	\$ 1	5,964	\$	15,601
California	1	4,387		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	\$ 7	3,193	\$	69,766
By Property Type				
Non-residential				
Office	\$ 1	8,122	\$	18,230
Industrial / Warehouse	1	4,430		13,775
Multi-family rental	1	1,232		10,412
Shopping centers / Retail		5,806		5,830
Hotel / Motels		5,569		5,696
Multi-use		2,762		2,403
Other	1	4,115		12,241
Total non-residential	7	2,036		68,587
Residential		1,157		1,179
Total outstanding commercial real estate loans	\$ 7	3,193	\$	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 Septe	nths Er mber 30	Nine Mon Septer			
(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			

<sup>(1)</sup> Balances do not include nonperforming loans held-for-sale of \$173 million and \$222 million at September 30, 2023 and 2022.
<sup>(2)</sup> Includes U.S. small business commercial activity. Small business card loans are excluded as they are not classified as nonper of Commercial loans and leases may be returned to performing status when all principal and interest is current and full renavment.

of collection, or when a modified loan demonstrates a sustained period of payment performance.

(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.

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

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

Table 32 Commercial Credit Exposure by Industry (1)

	Commercial Utilized						Total Commercial Committed <sup>(2)</sup>				
	S	eptember 30				September 30					
(Dollars in millions)		2023		nber 31 2022	_	2023		ber 31 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			

#### **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 2	022
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 <sup>(1)</sup>	Percent of Total	No	Net otional (1)	Percent of Total					
(Dollars in millions)		Septembe	r 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 %					

<sup>(1)</sup> Represents net credit default protection purchased.

<sup>10</sup> Includes U.S. small business commercial exposure.

12 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.

December 31, 2022.

(i) 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.

Ratings are refreshed on a quarterly basis.
 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

(Dollars in millions)	ı	Funded Loans and Loan Equivalents	Unfunded Loan Commitments	Net Counterparty Exposure	Securities/ Other Investments	C	Country Exposure at September 30 2023	H	Hedges and Credit Default Protection	Net Country Exposure at September 30 2023	ease (Decrease) m December 31 2022
United Kingdom	\$	26,274	\$ 18,599	\$ 7,991	\$ 4,606	\$	57,470	\$	(3,037)	\$ 54,433	\$ (912)
Germany		21,785	9,912	1,325	2,563		35,585		(2,224)	33,361	(12,365)
Canada		12,090	9,625	1,085	3,501		26,301		(416)	25,885	312
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

	,	Amount	Percent of Total	Percent of Loans and Leases Outstanding (1)		Amount	Percent of Total	Percent of Loans and Leases Outstanding (1)
(Dollars in millions)			September 30, 2023				December 31, 2022	
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/ı	n	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		

Net charge-offs for the three and nine months ended September 30, 2023 were \$931 million and \$2.6 billion 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.

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.

<sup>(</sup>f) 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.
(a) Includes allowance for loan and lease losses for U.S. small business commercial loans of \$983 million and \$844 million at September 30, 2023 and December 31, 2022.
(n/m = not meaningful

#### Table 37 **Allowance for Credit Losses**

		Three Months En	ded Se	otember 30		Nine Months End	led Se	otember 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)				(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 Control of the		(1)		1 545				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	s	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 %	Ψ.	1.20 %	•	1.27 %	٧	1.20 %
Consumer allowance for loan and lease losses as a percentage of total roans and leases outstanding at		1.27 /0		1.20 /0		1.27 /0		1.20 /
September 30		1.78		1.53		1.78		1.53
Commercial allowance for loan and lease losses as a percentage of total commercial loans and leases outstanding at								
September 30		0.87		0.94		0.87		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		40- **		445.00		40		
30 (4)		165 %		140 %		165 %		140 %

<sup>(</sup>i) 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.
(ii) 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 \$41 million and \$40 million for the same periods in 2022.
(iii) 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.
(iii) Primarily includes amounts related to credit card and unsecured consumer lending portfolios in Consumer Banking.
(iii) Includes U.S. small business commercial charge-offs of \$94 million and \$254 million for the same periods in 2022.
(iii) Includes U.S. small business commercial charge-offs of \$94 million and \$254 million for the same periods in 2022.
(iii) Includes U.S. small business commercial recoveries of \$12 million and \$40 million for the same periods in 2022.
(iii) Includes U.S. small business commercial recoveries of \$12 million and \$254 million and \$40 million for the same periods in 2022.
(iii) Includes U.S. small business commercial recoveries of \$12 million and \$40 million for the same periods in 2022.
(iii) Includes U.S. small business commercial recoveries of \$12 million and \$40 million for the same periods in 2022.
(iii) Includes U.S. small business commercial recoveries of \$12 million for the three and nine months ended September 30, 2023 compared to \$41 million and \$40 million for the same periods in 2022.
(iii) Includes U.S. small business commercial recoveries of \$12 million for the three and nine months ended September 30, 2023 compared to \$41 million and \$40 million for the three and nine months ended September 30, 2023 compared to \$41 million and \$40 million for the same periods in 2022.
(iii) Includes U.S. small business commercial recoveries of \$12 million for the three and nine months ended S

#### **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 Mo	onths	Ended							Nine	Month	ns Ende	ed
		Se	eptemb	er 30, 2023				June	30, 2	2023				Septemb	er 30, 2022			eptemb		
(Dollars in millions)	eriod End	Ave	rage	High (1	)	Low <sup>(1)</sup>	eriod End	Average		High (1)	Low (1)		Period End	Average	High (1)	Low (1)	2023 Avera		202 Avera	
Foreign exchange	\$ 25	\$	25	\$ 3	3	\$ 12	\$ 22	\$ 29	\$	42	\$ 16	\$	24	\$ 19	\$ 32	\$ 12	\$	29	\$	18
Interest rate	46		51	8	6	35	42	50		74	36		35	34	55	25		48		36
Credit	62		49	6	2	43	50	50		54	47		90	68	95	54		61		68
Equity	13		15	2	3	11	24	24		56	13		22	16	23	12		19		20
Commodities	10		8	1	0	6	8	9		12	7		12	13	18	9		9		13
Portfolio diversification	(90)		(92)		n/a	n/a	(85)	(98	)	n/a	n/a	a	(102)	(85)	n/a	a n/a	(1	04)		(88)
Total covered positions portfolio	66		56	7	4	41	61	64		85	53		81	65	95	42		62		67
Impact from less liquid exposures (2)	21		13		n/a	n/a	8	12		n/a	n/a	a	82	52	n/a	a n/a		22		38
Total covered positions and less liquid trading positions portfolio	87		69	9	11	52	69	76		105	63	_	163	117	173	84		84		105
Fair value option loans	16		19	2	1	16	19	20	1	26	15		59	50	60	37		27		52
Fair value option hedges	10		11	1	3	9	12	16		20	12		17	16	18	13		14		17
Fair value option portfolio diversification	(14)		(17)		n/a	n/a	(19)	(24	)	n/a	n/a	a	(39)	(36)	n/a	a n/a		(24)		(35)
Total fair value option portfolio	12		13	1	4	12	12	12		14	11		37	30	37	23		17		34
Portfolio diversification	(2)		(5)		n/a	n/a	(6)	(7	)	n/a	n/a	a	(5)	(4)	n/a	a n/a		(7)		(13)
Total market-based portfolio	\$ 97	\$	77	10	13	58	\$ 75	\$ 81		113	66	\$	195	\$ 143	203	103	\$	94	\$	126

<sup>10</sup> 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

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.



portfolio and the sum of the individual components, is not relevant.

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										
		September 30	, 2023	June 3	30, 2023	September :	30, 2022				
(Dollars in millions)	99	percent	95 percent	99 percent	95 percent	99 percent	95 percent				
Foreign exchange	\$	25 \$	16	\$ 29	\$ 19	\$ 19 9	5 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.

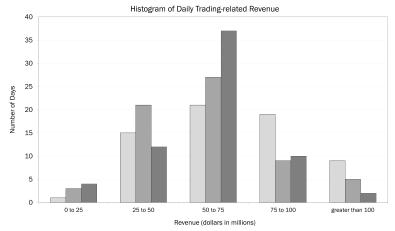
During the three and nine months ended September 30, 2023, there were no days where this subset of trading revenue had losses that exceeded our total covered portfolio VaR, utilizing a one-day holding period.

#### **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.



■Three Months Ended Mar 31, 2023 ■Three Months Ended Jun 30, 2023 ■Three Months Ended Sep 30, 2023

#### **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 Funds	SOFR (1)	10-Year SOFR <sup>(1)</sup>							
Spot rates	5.50 %	5.31 %	4.27 %							
12-month forward rates	5.14	5.01	4.13							
		December 31, 2022								
	Federal Funds	Three-month LIBOR	10-Year Swap							
Spot rates	4.50 %	4.77 %	3.84 %							
12-month forward rates	4.75	4.78	3.62							

<sup>(1)</sup> 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 non-linear 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 long-end 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 lowcarbon 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 from our climate-related practices, disclosures and 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-Q.

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

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#### **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 (	Quarte	ers	Nine Mon Septer	
(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		390	895		899	914		920	895	925
Tangible shareholders' equity	\$ 214,	315 \$	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,	118 \$	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		386	890	l	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	1	895	899		915		
Tangible assets	\$ 3,082,	939 \$	3,053,031	\$	3,124,475	\$ 2,981,177	\$	3,002,752		

<sup>(1)</sup> 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.

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

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.

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# Part I. Financial Information Item 1. Financial Statements

# **Bank of America Corporation and Subsidiaries**

## **Consolidated Statement of Income**

	Th	ree Months En	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	i	37,781	
Noninterest income							
Fees and commissions		8,135	8,001	23,990	1	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	1,451	
Noninterest expense							
Compensation and benefits		9,551	8,887	28,870	1	27,286	
Occupancy and equipment		1,795	1,777	5,370	1	5,285	
Information processing and communications		1,676	1,546	5,017		4,621	
Product delivery and transaction related		880	892	2,726	i	2,749	
Professional fees		545	525	1,609	1	1,493	
Marketing		501	505	1,472	!	1,365	
Other general operating		890	1,171	3,050	1	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**

	Three Months En	ded Se	eptember 30	Nine Months End	ed Sep	tember 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

## **Consolidated Balance Sheet**

(Dollars in millions)	Sep	tember 30 2023		December 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  Cosh and each equivalents		326,471 351,726		199,869
Cash and cash equivalents Time deposits placed and other short-term investments		7,995		230,203 7,259
Federal funds sold and securities borrowed or purchased under agreements to resell		7,555		7,239
(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)		306,409		296,108
Derivative assets		47,464		48,642
Debt securities:				
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 74,347		6,871
Customer and other receivables  Other assets (includes \$9,058 and \$9,594 measured at fair value)		152,732		67,543 150,759
Total assets	\$	3,153,090	\$	3,051,375
- Vali doced	<u> </u>	0,100,000	Ψ	0,001,070
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		91,953		86,526
Total deposits		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		.0,.00		20,002
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  Deferred took \$0.01 per value; authorized 40,000,000 chares; issued and autotaching 40,000 and 4,000,401 chares.		28,397		28,397
Preferred stock, \$0.01 par value; authorized – 100,000,000 shares; issued and outstanding – 4,088,099 and 4,088,101 shares  Common stock and additional paid-in capital, \$0.01 par value; authorized – 12,800,000,000 shares;		20,391		20,391
issued and outstanding - 7,923,337,339 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
A set of considered orders before a settle between the best of the set of the settle between the settle betw				
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
Trauling account assets  Loans and leases	•	16,902	Ÿ	16,738
Allowance for loan and lease losses		(809)		(797)
Loans and leases, net of allowance		16,093		15,941
All other assets		222		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)  All other liabilities (includes \$12 and \$13 of non-recourse liabilities)		6,566		4,581
All other liabilities (includes \$172 and \$13 or non-recourse liabilities)  Total liabilities of consolidated variable interest entities	\$	12 8,637	\$	4,635
The state of the s	*	0,007	Ψ	4,000

See accompanying Notes to Consolidated Financial Statements.

# Consolidated Statement of Changes in Shareholders' Equity

		Preferred	Common S Additional Pa		Capital		Retained		Accumulated Other Comprehensive	Sh	Total nareholders'
(In millions)		Stock	Shares	•	Amount	•	Earnings	•	Income (Loss)	•	Equity
Balance, June 30, 2023 Net income	\$	28,397	7,953.6	\$	57,267	\$	218,397 7,802	\$	(20,742)	\$	283,319 7,802
Net change in debt securities							7,002		(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											
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:							(5.450)				(5.450)
Common							(5,459)				(5,459)
Preferred			45.4		4 500		(1,343)				(1,343)
Common stock issued under employee plans, net, and other			45.1		1,522		(7)				1,515
Common stock repurchased	\$	28,397	(118.5) 7,923.4	\$	(3,765) 56,710	•	223,749	•	(21,792)	\$	(3,765) 287,064
Balance, September 30, 2023 Balance, June 30, 2022	<b></b>	29,134	8,035.2	\$	59,499	<b>\$</b> \$	197,159	<b>\$</b> \$	(16,674)	\$	269,118
Net income	φ	29,134	0,033.2	φ	35,455	φ	7,082	φ	(10,074)	φ	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:									()		()
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)		( )				(450)
Balance, September 30, 2022	\$	29,134	8,024.5	\$	59,460	\$	201,957	\$	(21,027)	\$	269,524
Balance, December 31, 2021	\$	24,708	8,077.8	\$	62,398	\$	188,064	\$	(5,104)	\$	270,066
Net income							20,396				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:									, ,		, ,
Common							(5,188)				(5,188)
Preferred							(1,285)				(1,285)
Issuance of preferred stock		4,426					•				4,426
		7,720									
Common stock issued under employee plans, net, and other		4,420	44.5		1,137		(30)				1,107
Common stock issued under employee plans, net, and other Common stock repurchased		7,720	44.5 (97.8)		1,137 (4,075)		(30)				1,107 (4,075)

See accompanying Notes to Consolidated Financial Statements.

# **Consolidated Statement of Cash Flows**

	Nine Months Ended	
(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		•
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:		, , ,
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:	(50,555)	(114,021
Proceeds from paydowns and maturities	28,517	53,340
Purchases	(98)	(24,059
Loans and leases:	(90)	(24,038
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	(9,973) (4,271)	(3,039
Net cash provided by (used in) investing activities	28,796	(16,909
	20,790	(10,908
Financing activities		
Net change in:	(45.540)	(100.101
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

See accompanying Notes to Consolidated Financial Statements.

#### **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 En	ded Se	•	 Nine Months En	ded Se	•
(Dollars in millions)	 2023		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

<sup>(9)</sup> 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 \$4.4 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 \$3.5 billion for the nine months ended September 30, 2023 and 2022 and are presented net of \$0.0 billion and \$3.4 billion of expenses for rewards and partner payments as well as certain other card costs for the same periods.

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#### **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	er 30	0, 2023				
			G	ross	Derivative Asse	ts			Gre	ss Derivative	Liabili	ties	
(Dollars in billions)	Contract/ Notional (1)	Risk M	g and Other lanagement rivatives		Qualifying Accounting Hedges		Total		rading and Other isk Management Derivatives	Qualifyi Account Hedge	ting		Total
Interest rate contracts													
Swaps	\$ 20,628.1	\$	149.2	\$	9.0	\$	158.2	\$	125.0	\$	29.7	\$	154.7
Futures and forwards	3,903.6		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		3.7		_		3.7		2.4		0.7		3.1
Written options (2)	61.1		_		_		_		3.5		_		3.5
Purchased options (3)	67.0		3.2		_		3.2		_		_		_
Credit derivatives (4)													
Purchased credit derivatives:													
Credit default swaps	412.6		2.3		_		2.3		1.9		_		1.9
Total return swaps/options	66.0		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	\$	31.5	\$	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

Represents the total contract/notional amount of derivative assets and liabilities outstanding.
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.
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.
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 \$\mathbb{Q}(0)\$ million and \$\mathbb{S}66.1\$ billion at September 30, 2023.

								Decembe	er 31	1, 2022				
				(	Gross	s Derivative Asset	ts			Gr	oss	Derivative Liabilit	ies	
(Dollars in billions)	_	Contract/ Notional (1)	Risk M	g and Other Management erivatives		Qualifying Accounting Hedges		Total		rading and Other tisk Management Derivatives		Qualifying Accounting Hedges		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		0.8		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

#### 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.

Progresents the total contract/notional amount of derivative assets and liabilities outstanding.

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.

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.

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 \$(2) billion and \$276.9 billion at December 31, 2022.

#### Offsetting of Derivatives (1)

	D	erivative Assets	Derivative Liabilities	Derivative Assets	Derivative Liabilities
(Dollars in billions)		September	r 30, 2023	Decembe	r 31, 2022
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

<sup>(1)</sup> 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.

(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.

#### **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 cross-currency basis swaps, and by issuing foreign currency- denominated debt (net investment hedges).

#### 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

	Three M	onths Ended	d Septe	ember 30, 2023	Three Months Ended	Septe	mber 30, 2022
(Dollars in millions)	Derivati	ive		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)

	Nine Months Ended	Septe	mber 30, 2023	Nine Months Ended September 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			

Amounts are recorded in interest expense in the Consolidated Statement of Income.

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 \$1 million in interest income, \$2 million and \$3 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 \$3 and \$(1) million in accumulated OCI. Line item totals are in the Consolidated Statement of Income and on the Consolidated Balance Sheet.

Amounts are recorded in interest income in the Consolidated Statement of Income.
 Amounts are recorded in market making and similar activities 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

	s	eptemb	er 30,	2023	Decembe	r 31,	2022
				Cumulative Fair Value			Cumulative Fair Value
(Dollars in millions)	Carrying Valu	е		Adjustments (1)	Carrying Value		Adjustments (1)
Long-term debt (2)	\$ 1	94,138	\$	(14,154)	\$ 187,402	\$	(21,372)
Available-for-sale debt securities (2, 3, 4)		36,730		(6,262)	167,518		(18,190)
Trading account assets (5)		7,452		205	16,119		146

(1) Increase (decrease) to carrying value.

Increases (decrease) to carrying value.

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 \$0.7 billion and an increase of \$137 million in the related liability and a decrease in the related asset set of \$5.5 billion and \$3.9 billion and \$3.9 billion and an increase of \$137 million in the related liability and a decrease in the related asset set of \$5.5 billion and \$3.9 billion are being amontized over the remaining contractual life of the de-designethed hedged items.

These amounts include the amontized cost of the financial assets in closed portfolios used to designe relationships in which the hedged term is a stated layer that is expected to be remaining at the end of the hedging relationship. At September 30, 2023 and December 31, 2022, the amontized cost of the decided with these hedging relationships was a decrease in the related asset in closed portfolion used in the second provided provided in the second provided provided in the second provided provided in the second provided in the second provided in the second provided provided in the second provided provided provided in the second provided provide

Carrying value represents amortized cost. (4) Carrying value represents amortized cost. (5) Represents hedging activities related to certain commodities inventory.

#### 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 aftertax (\$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.

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

	 Gains (Losses) Recognized in Accumulated OCI on Derivatives		Gains (Losses) in Income Reclassified from Accumulated OCI	Gains (Losses) Recognized in Accumulated OCI on Derivatives		Gains (Losses) in Income Reclassified from Accumulated OCI
(Dollars in millions, amounts pretax)	Three Months Ende	d Se	ptember 30, 2023	Nine Months Ended	d Sep	otember 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	d Sep	otember 30, 2022	Nine Months Ended	d Sep	otember 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

10 Amounts reclassified from accumulated OCI are recorded in interest income in the Consolidated Statement of Income.
20 Amounts reclassified from accumulated OCI are recorded in compensation and benefits expense in the Consolidated Statement of Income.
30 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 \$8 million and losses of \$109 million.

#### 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

	Th	ree Months End	ded September 30	Nine Months End	ded 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)

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.
 Gains (losses) on these derivatives are recorded in other income.
 Gains (losses) on these derivatives are recorded in market making and similar activities.
 Gains (losses) on these derivatives are recorded in compensation and benefits expense.

#### 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. governmentguaranteed 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 nonderivative 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.

## Sales and Trading Revenue

	N	larket making and similar activities		Net Interest Income Other <sup>(1)</sup>						Other (1) Total			Other (1)			Market making and similar Net Interest activities Income				Other <sup>(1)</sup>	Total
(Dollars in millions)			Thre	e Months Ended	l Sep	otember 30, 202	3				Nir	ne Months Ended	Sept	tember 30, 2023							
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						
			Thre	e Months Ended	Sep	tember 30, 2022	2				Ni	ine Months Ended	Sept	tember 30, 2022							
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						

<sup>(9)</sup> 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 \$74 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.

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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		One to Three Years		Three to Five Years		Over Five Years		Total
					Sep	tember 30, 2023				
(Dollars in millions)					C	arrying Value				
Credit default swaps:										
Investment grade	\$	_			\$	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:										
Investment grade	\$	_	\$	-	\$	1	\$	745	\$	746
Non-investment grade		_		4		6		1,128		1,138
Total credit-related notes	\$	_	s		\$	7	\$	1,873	\$	1,884
	<u> </u>					um Payout/Notio	_	1,010	•	.,
Credit default swaps:										·
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
	_					cember 31, 2022 Carrying 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	\$	_	\$	7	\$	25	\$	2,052	\$	2,084
				N	Лахіп	num Payout/Notion	nal			
Credit default swaps:										
Investment grade	\$	34,670	\$	66,170	\$		\$	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:										
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

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 and 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)	One Incremental 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

<sup>(1)</sup> 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)

	Thre	e Months End	led Se	eptember	30
(Dollars in millions)	:	2023		2022	
Derivative assets (CVA)	\$	30	\$		(44)
Derivative assets/liabilities (FVA)		21			67
Derivative liabilities (DVA)		18			103
(Dellers to suffice a)		e Months End	ed Se	•	30
(Dollars in millions)	<del></del>	2023	_	2022	
Derivative assets (CVA)	\$	151	\$		(217)
Derivative assets/liabilities (FVA)		4			147
Derivative liabilities (DVA)		(66)			444

<sup>(1)</sup> At September 30, 2023 and December 31, 2022, cumulative CVA reduced the derivative assets balance by \$67 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 Cost	Gross Unrealized Gains		Gross Jnrealized Losses	Fair Value	 Amortized Cost	Gross Unrealized Gains		Gross Jnrealized Losses	Fair Value
(Dollars in millions)		Septembe	r 30, i	2023			Decemb	er 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 Principlesto 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

	Т	hree Mo Septe	 	Nine Mon Septer	 
(Dollars in millions)		2023	2022	2023	2022
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)	\$ 9

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<sup>29</sup> 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, seelote 14 – Fair Value Measurements.

Includes securities pledged as collateral of \$141.0 billion and \$104.5 billion and \$104

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

	Less than T	welv	e Months	Twelve Mon	ths o	r Longer	To	otal	
	Fair Value		Gross Unrealized Losses	Fair Value		Gross Unrealized Losses	Fair Value		Gross Unrealized Losses
(Dollars in millions)				Septemb	er 30,	, 2023			
Continuously unrealized loss-positioned AFS debt securities									
Mortgage-backed securities:									
Agency	\$ 469	\$	(17)	\$ .,	\$	(1,914)	\$ 20,471	\$	(1,931)
Agency-collateralized mortgage obligations	2		_	1,696		(266)	1,698		(266)
Commercial	1,527		(34)	4,467		(548)	5,994		(582)
Non-agency residential	_		_	376		(68)	376		(68)
Total mortgage-backed securities	1,998		(51)	26,541		(2,796)	28,539		(2,847)
U.S. Treasury and government agencies	151		(5)	66,979		(1,193)	67,130		(1,198)
Non-U.S. securities	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 unrealized loss position	\$ 14,158	\$	(136)	\$ 99,354	\$	(4,421)	\$ 113,512	\$	(4,557)
				Decembe	er 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 in Year o			Due after through F		Due after F through Te		Due a Ten Y		Tot	al
(Dollars in millions)	 Amount	Yield (1)	-	Amount	Yield (1)	 Amount	Yield (1)	Amount	Yield (1)	Amount	Yield (1)
Amortized cost of debt securities carried at fair value											
Mortgage-backed securities:											
Agency	\$ _	— %	\$	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	37,773	5.23		45,637	3.05	22,437	2.33	39	3.89	105,886	3.67
Non-U.S. securities	17,748	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	\$ 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	117,075	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	\$ 117,359	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	37,776			44,973		21,910		35		104,694	
Non-U.S. securities	17,737			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	\$ 57,150		\$	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	

<sup>(1)</sup> 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.

	0-59 Days ast Due <sup>(1)</sup>		0-89 Days ast Due <sup>(1)</sup>		90 Days or More Past Due <sup>(1)</sup>		Total Past Due 30 Days or More		Total Current or Less Than 30 Days Past Due <sup>(1)</sup>	Loans Accounted for Under the Fair Value Option		Total Outstandings
(Dollars in millions)						S	eptember 30, 2	023				
Consumer real estate												
Residential mortgage	\$ 1,143	\$	278	\$	874	\$	2,295	\$	226,871		\$	229,166
Home equity	88		42		171		301		25,191			25,492
Credit card and other consumer												
Credit card	626		455		1,016		2,097		97,590			99,687
Direct/Indirect consumer (2)	267		85		75		427		103,632			104,059
Other consumer	_		_		_		_		122			122
Total consumer	2,124		860		2,136		5,120		453,406			458,526
Consumer loans accounted for under the fair value option (3)										\$ 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 %	6	100.00 %

<sup>10</sup> Consumer real estate loans 30-59 days past due includes fully-insured loans of \$87 million and nonperforming loans of \$167 million. Consumer real estate loans surrent or less than 30 days past due includes fully-insured loans of \$266 million and nonperforming loans of \$779 million. Consumer real estate loans surrent or less than 30 days past due includes \$3.7 million of nonperforming loans.

20 Total outstandings primarily includes suito and specialty lending loans and leases of \$4.0 billion, and direct/indirect consumer loans accounted for under the fair value option includes residential mortgage loans of \$779 million. Consumer loans accounted for under the fair value option includes residential mortgage loans of \$770 million and home equity loans of \$165 million. Commercial loans accounted for under the fair value option includes U.S. commercial loans of \$1.5 billion. For more information, see Note 14 – Fair Value Measurements and Note 15 – Fair Value Option.

30 Total outstandings includes U.S. commercial real estate loans of \$7.7 billion and non-U.S. consumer loans accounted for under the fair value option includes U.S. commercial real estate loans of \$7.7 billion.

31 Includes Paycheck Protection Program loans.

32 Total outstandings includes U.S. commercial real estate loans of \$7.7 billion and non-U.S. consumer loans accounted for under the fair value option includes U.S. commercial real estate loans of \$7.7 billion.

33 Includes Paycheck Protection Program loans.

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	30-59 Days Past Due <sup>(1)</sup>	60-89 Days Past Due (1)		90 Days or More Past Due (1)		Total Past Due 30 Days or More		Total Current or Less Than 30 Days Past Due (1)	Loans Accounted for Under the Fair Value Option	Tota	al Outstandings
(Dollars in millions)					- 1	December 31, 20	22				
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 (3)									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 %	5	0.72 %		98.73 %	 0.55 %		100.00 %

<sup>10</sup> Consumer real estate loans 30-59 days past due includes fully-insured loans of \$84 million and nonperforming loans of \$85 million. Consumer real estate loans 60-89 days past due includes fully-insured loans of \$56 million and nonperforming loans of \$38 million. Consumer real estate loans 90 days or more past due includes \$1,6 billion, and direct/indirect consumer includes \$27 million on fonoperforming loans.
20 Total outstandings primarily includes auto and specialty lending loans and leases of \$1.8 billion, U.S. securities-based lending loans of \$50.4 billion and non-U.S. consumer loans of \$3.0 billion.
30 Consumer loans accounted for under the fair value option includes residential morty loans of \$1 million and home equity loans of \$60 million. Commercial loans accounted for under the fair value option includes U.S. commercial loans of \$2.5 billion. For more information, see Note 14 - Fair Value Measuremand Note 15 - Fair Value Option.
40 Total outstandings includes U.S. commercial real estate loans of \$3.4 billion and non-U.S. commercial real estate loans of \$4.8 billion.

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 Principlesto the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

Total outstandings includes 0.5. Commercial real estate loans of \$4.5 billion and non-0.5. Commercial real estate loans of \$5.5 billion of loans with no related outstanding borrowings to secure potential borrowing capacity with the Federal Reserve Bank and Federal Home Loan Bank.

#### **Credit Quality**

	Nonperfor and	rming L Leases			Accruing 90 Days	
(Dollars in millions)	September 30 2023		December 31 2022		September 30 2023	December 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 %	, 0	0.37 %	6	0.15 %	0.16 %

<sup>(1)</sup> 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 \$80 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.

2 Note: The 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.

#### **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 loan-to-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 chargeoffs 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.

## Residential Mortgage - Credit Quality Indicators By Vintage

		Term Loans by Origination 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

		Total		Home Equity Loans and Reverse Mortgages (1)	Revolving Loans	volving Loans verted to Term Loans
(Dollars in millions)	-			Septemb	er 30, 2023	
Home Equity						
Refreshed LTV						
Less than or equal to 90 percent	:	\$ 25,33	\$	1,102	\$ 19,944	\$ 4,290
Greater than 90 percent but less than or equal to 100 percent		6	3	17	36	13
Greater than 100 percent		9	)	34	36	20
Total Home Equity		\$ 25,49	2 \$	1,153	\$ 20,016	\$ 4,323
Home Equity						
Refreshed FICO score						
Less than 620	:	\$ 66	2 \$	134	\$ 228	\$ 300
Greater than or equal to 620 and less than 680		1,12	)	125	568	436
Greater than or equal to 680 and less than 740		4,23	,	253	2,961	1,023
Greater than or equal to 740		19,46	ı	641	16,259	2,564
Total Home Equity		\$ 25,49	2 \$	1,153	\$ 20,016	\$ 4,323
Gross charge-offs for the nine months ended September 30, 2023		\$ 1	3 \$	2	\$ 8	\$ 8

<sup>(1)</sup> 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/Ind	irect										
							Teri	m Loans by	Origi	nation Year				Cred	lit Card		
(Dollars in millions)			Revolving Loans	2023	2022		2021		2020	2019	Prior	otal Credit Card is of September 30, 2023	R	evolving Loans	Cor	evolving Loans nverted to m Loans <sup>(1)</sup>	
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	13,418	12,831		8,602		3,303	1,739	1,753	49,071		49,021		50
Other internal credit metrics (2,3)		49,963		49,285	72	175		145		54	55	177	_		_		_
Total credit card and other consumer	\$	104,059	\$	49,430	\$ 17,272	\$ 17,111	\$	11,494	\$	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 delinquercy status, geography or other factors.

Direct/findirect 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)

	_							Term	Loa	ns						
			-			А	morti	zed Cost Bas	is by	Origination Y	ear					
(Dollars in millions)		Total as of ptember 30, 2023		2023		2022		2021	,	2020		2019		Prior	ı	Revolving Loans
U.S. Commercial		2023		2023		2022		2021		2020		2019		FIIOI		LUaiis
Risk ratings																
Pass rated	•	344,382	\$	28,937	e	46 242	e.	20.465	e	14,786	\$	12.015	\$	24 022	\$	101 025
	\$		Ф		\$	46,312	\$	28,465	\$		Ф	13,015	Ф	31,832	Ф	181,035
Reservable criticized		11,948	•	157	Φ.	1,203	•	817	•	419	Φ.	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

<sup>(</sup>i) Excludes \$4.0 billion of loans accounted for under the fair value option at September 30, 2023.
(ii) 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 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 680; \$2.7 billion for greater than or equal to 640 and less than 640; \$2.7 billion for greater than or equal to 640 and less than 640; \$2.7 billion for greater than or equal to 640 and less than 640; \$2.7 billion for greater than or equal to 640 and less than 640; \$2.7 billion for greater than 640; \$2.7 bi

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 Orig	ination Year		
Dollars in millions)		Total as of December 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
Fross charge-offs for the year ended December 31, 2022	\$	161 \$	-\$	6\$	5\$	6\$	1\$	143

# **Home Equity - Credit Quality Indicators**

		Н	ome Equity Loans and Reverse		Revolving Loans Converted to Term
		Total	Mortgages (1)	Revolving Loans	Loans
Dollars in millions)	_		December	31, 2022	
Iome 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
Iome 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

<sup>(1)</sup> 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/Ind	rect										
					Ter	m Loans by	Origi	nation Year				Crec	lit Card		
(Dollars in millions)	cal Direct/Indirect of December 31, 2022	Revolving Loans	2022	2021		2020		2019	2018	Prior	otal Credit Card as of December 31, 2022	F	Revolving Loans	Cor	evolving Loans overted to n Loans (1)
Refreshed FICO score															
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	2,521	12	1,108	816		269		150	69	97	10,994		10,805		189
Greater than or equal to 680 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

<sup>(1)</sup> Represents TDRs that were modified into term loans.
(2) Other internal credit metrics may include delinquency status, geography or other factors.
(3) 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	<b>(</b> ')											
						Term	_						
	Total	as of December		A	mortiz	zed Cost Bas	is by	Origination Y	ear				
(Dollars in millions)	Total	31, 2022	2022	2021		2020		2019		2018	Prior	Rev	volving 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

<sup>(1)</sup> 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 \$97 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 \$72 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. The weightedaverage 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)

	Current	Past Due		Past Due	Total
(Dollars in millions)		Se	ptember 30,	2023	
Residential mortgage	\$ 295	\$	114 \$	156	\$ 565
Home equity	51		11	28	90
Total	\$ 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.

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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

	1	Term Extension	Forbearances	Interes	t Rate Reduction	Total
(Dollars in millions)			Three Months Ende	d 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 Months Ended	l Septembe	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)			September 30, 2023	3		
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

	d Principal alance	Carrying Value	Pre-Modification Interest Rate		Post-Modification Interest Rate (1)		Un	paid Principal Balance	Carrying Value	Pre-Modification Interest Rate		Post-Modification Interest Rate (1)
(Dollars in millions)		Three Months E	nded September 30, 20	22					Nine Months E	nded September 30, 20	)22	
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

<sup>10</sup> 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 Entered into During the	TDI	Rs Entered into During the
	Three Months Ended		Nine Months Ended
(Dollars in millions)	September 30, 2022		September 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

<sup>(1)</sup> 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)		ember 30, 2022
Modifications under proprietary programs	\$ 63 \$	135
Loans discharged in Chapter 7 bankruptcy (1)	1	2
Trial modifications (2)	8	19
Total modifications	\$ 72 \$	156

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

#### 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

	Principal lance		Carrying Value <sup>(1)</sup>	Pre-Modification Interest Rate	Post-Modification Interest Rate	1	id Principal Balance	Carrying Value <sup>(1)</sup>	Pre-Modification Interest Rate	Post-Modification Interest Rate
(Dollars in millions)		Т	hree Months End	ded September 30, 2022				Nine Months En	ded September 30, 2022	
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)

(Dollars in millions)	Three Mo	I into During the onths Ended er 30, 2022	Nine Months	red into During the s Ended September 30, 2022
Internal programs	\$	77	\$	174
External programs		13		32
Other		2		4
Total	\$	92	\$	210

(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 noncash 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.

# **Accrued Interest Receivable**

Accrued interest receivable for loans and leases and loans held-for-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

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 Principlesto the Consolidated Financial Statements of the Corporation's 2022 Annual Report on Form 10-K.

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.

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# 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

		Residential Mortgage - Agency								Commercial Mortgage								
	Thre	e Months En	Months Ended September 30 N				Nine Months Ended September 30				ded S	eptember 30	Nine Months Ended September 30			ptember 30		
(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		_		_		_		_		

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.

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.

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\$\foxtar{\text{million}}\$ million net of hedges, during the three and nine months ended September 30, 2023 compared to \$\foxtar{\text{million}}\$ million for the same periods in 2022, are not included in the table above.

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

	Residential Mortgage															
									Non-age	ncy				-		
		Agenc	у		Pı	rime			Subprir	ne		Alt-A		-	Commercial Mo	ortgage
(Dollars in millions)		Sep 30 2023	Dec 31 2022		Sep 30 2023	Dec 202			Sep 30 2023	Dec 31 2022		Sep 30 2023	Dec 31 2022		Sep 30 2023	Dec 31 2022
Unconsolidated VIEs	_	2020	LULL			20.			2020	2022		2020	2022			
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	\$	_	\$	_	\$	<b>-</b> \$	78	\$	<b>-</b> \$	_	\$	<b>-</b> \$	_
On-balance sheet assets																
Trading account assets	\$	1,914 \$	1,735	\$	_	\$	_	\$	— \$	78	\$	<b>-</b> \$	_	\$	<b>-</b> \$	_
Loans and leases, net		_	_		_		_		_	_		_	_		_	_
Total assets	\$	1,914 \$	1,735	\$		\$	_	\$	<b>-</b> \$	78	\$	<b>-</b> \$	_	\$	<b>-</b> \$	_
Total liabilities	\$	— \$	_	\$	_	\$	_	\$	<b>-</b> \$	_	\$	<b>-</b> \$	_	\$	<b>-</b> \$	_

<sup>(1)</sup> 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.

# 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 Equ	itv (1)		Credit Card and A	utomobile (2)		Resecuritization	on Trusts		Municipal Bond Trusts		
(Dollars in millions)	<del>=</del>	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	\$	<b>-</b> \$	119	\$	<b>-</b> \$		\$	4,683 \$	4,243	\$	2,030 \$	2,537	
On-balance sheet assets													
Securities (3):													
Trading account assets	\$	<b>-</b> \$	_	\$	<b>-</b> \$	_	\$	1,465 \$	456	\$	<b>-</b> \$	_	
Debt securities carried at fair value		_	1		_	_		916	1,259		_	_	
Held-to-maturity securities		_	_		_	_		2,302	2,528		_	_	
Total retained positions	\$	<b>—</b> \$	1	\$	<b>-</b> \$	_	\$	4,683 \$	4,243	\$	<b>-</b> \$	_	
Total assets of VIEs	\$	264 \$	326	\$	<b>-</b> \$	_	\$	18,187 \$	12,255	\$	2,486 \$	3,016	
Consolidated VIEs													
Maximum loss exposure	s	13 \$	32	\$	8,361 \$	9,555	\$	119 \$	551	\$	2,121 \$	_	
On-balance sheet assets	<b>~</b>	,		Ť	0,00. 0	0,000	Ť	,	001	Ť	2,121 \$		
Trading account assets	s	<b>—</b> \$	_	\$	<b>—</b> \$	_	\$	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 \$	_	

<sup>(</sup>i) 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*(a) At September 30, 2023 and December 31, 2022, loans and leases in the consolidated credit card trust included \$6\$ billion of seller's interest.
(b) 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.

# 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

	C	onsolidated	Und	consolidated	Total	Consolidated	Unconsolidated (1)	Total (1)
(Dollars in millions)			Septe	mber 30, 2023			December 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

<sup>(1)</sup> 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 energy 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	December 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.

Not	Investment	(1

(Dollars in millions)	Sep	December 31 202			
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	

<sup>(</sup>ii) 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

	Three Mo Septe		Nine Months Ended September 30					
(Dollars in millions)	 2023	2022		2023		2022		
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

(Dollars in millions)	Sep	otember 30 2023	Dece	mber 31 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

	Asse	Gross Assets/Liabilities <sup>(1)</sup>		Amounts Offset	Net Balance Sheet Amount		Financial Instruments		Net As:	sets/Liabilities
(Dollars in millions)					Sep	tember 30, 2023				
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
					De	cember 31, 2022				
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

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

  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.

  Excludes repurchase activity of \$3.6 billion reported in loans and leases on the Consolidated Balance Sheet at September 30, 2023 and December 31, 2022.
- 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

# 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		30 Days or Less	fter 30 Days Through 90 Days	Greater than 90 Days <sup>(1)</sup>			Total	
(Dollars in millions)					September 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
					December 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

<sup>(1)</sup> No agreements have maturities greater than four years

#### Class of Collateral Pledged

	s	ecurities Sold Under Agreements to Repurchase	Securities Loaned		Other	Total
(Dollars in millions)			Septembe	er 30, 202		
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
			Decembe	r 31, 202	22	
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, Short-term 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	Expire After One Year Through Three Years	E	xpire After Three Years Through Five Years	Expire After Five Years	Total
(Dollars in millions)				September 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
				December 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

# 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.

<sup>10</sup> At September 30, 2023 and December 31, 2022, \$3.7 billion and \$2.6 bill

#### 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 the 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 litigation-related 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) 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 settletwo 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	 dend Per 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)	Debt Securities	Debit Valuation Adjustments	Derivatives	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.

		Pretax		Tax		ter-	Pretax		Tax effect	After- tax
	-	TTOWA					ded Septembe	er 30	CIICOL	tux
(Dollars in millions)	<del>-</del>			2023					2022	
Debt securities:	-									
Net increase (decrease) in fair value		\$ (306)	s	84	\$	(222)	\$ (8,417	7) \$	2.064	\$ (6,353)
Net realized (gains) losses reclassified into earnings (1)		404	•	(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		(560)		136		(424)	1,698	3	(411)	1,287
Net realized (gains) losses reclassified into earnings (1)		` 7		(2)		` 5 <sup>°</sup>	14	1	(3)	11
Net change		(553)		134		(419)	1,712	2	(414)	1,298
Derivatives:										
Net increase (decrease) in fair value		(1,027)		261		(766)	(14,681	1)	3,673	(11,008)
Reclassifications into earnings:										
Net interest income		616		(153)		463	182	2	(46)	136
Compensation and benefits expense		(18)		4		(14)	(24	1)	6	(18)
Net realized (gains) losses reclassified into earnings		598		(149)		449	158	3	(40)	118
Net change		(429)		112		(317)	(14,523	3)	3,633	(10,890)
Employee benefit plans:										
Net actuarial losses and other reclassified into earnings (2)		36		(11)		25	135	j	(38)	97
Net change		36		(11)		25	135	j	(38)	97
Foreign currency:										
Net increase (decrease) in fair value		80		(75)		5	726	ò	(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)	:	\$ (812)	\$	176	\$	(636)	\$ (20,404	1) \$	4,481	\$ (15,923)

# **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 2022s 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 Septer		Nine Mon Septe		
(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

<sup>(1)</sup> 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.

					;	September 30, 2023			
	-		Fair	Value Measurements	s	•			
								Ass	ets/Liabilities at Fair
(Dollars in millions)		Level 1		Level 2		Level 3	Netting Adjustments (1)		Value
Assets									
Time deposits placed and other short-term investments	\$	1,129	\$	_	\$	_	\$ <u> </u>	\$	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:		.5,530		555,554		.,525	(555,510)		,
U.S. Treasury and government agencies		102,738		898		_	_		103,636
Mortgage-backed securities:		102,700		000					100,000
Agency		_		20.504		_	_		20.504
Agency-collateralized mortgage obligations				1.698					1,698
Non-agency residential		_		109		278	_		387
Commercial		_		6,741			_		6,741
		67		18,699		106	_		•
Non-U.S. securities		07		3.179		100	_		18,872
Other taxable securities				3,179 10,542		 51	_		3,179 10,593
Tax-exempt securities  Total AFS debt securities		102,805		62,370		435			165,610
Other debt securities carried at fair value:		102,805		62,370		435	_		165,610
		4.050							4.050
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									
Interest-bearing deposits in U.S. offices	\$	_	\$	404	\$	_	\$ <u> </u>	\$	404
Federal funds purchased and securities loaned or sold under agreements to repurchase		_		453,940		_	(244,103)		209,837
Trading account liabilities:									
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		· <u> </u>		38,803		640	_		39,443
Total liabilities (4)	\$	103,875	\$	877,307	\$	9,820	\$ (583,586)	\$	407,416

<sup>(1)</sup> Amounts represent the impact of legally enforceable master netting agreements and also cash collateral held or placed with the same counterparties.
(2) Includes securities with a fair value of \$\subseteq\$5.3 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.
(3) Includes MSRs, which as Level 3 assets, of \$3.0 billion.
(4) Total recurring Level 3 assets were0.35 percent of total consolidated assets, and total recurring Level 3 liabilities were0.34 percent of total consolidated liabilities.

			_	- \/		ecember 31, 2022			
			Fair	r Value Measurements				As	sets/Liabilities at Fair
(Dollars in millions)		Level 1		Level 2		Level 3	Netting Adjustments (1)	,	Value
Assets									
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		14,775		380,380		3,213	(349,726)		48,642
AFS debt securities:		•		,			(, -,		-,-
U.S. Treasury and government agencies		158,102		920		_	_		159,022
Mortgage-backed securities:									
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:		100,102		02,102		004			220,700
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		0,000		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	Ψ	320,303	Ψ	149,113	Ψ	10,713	ψ (343,720)	Ψ	7 55,051
Interest-bearing deposits in U.S. offices	\$		\$	311	\$		\$ _	\$	311
Federal funds purchased and securities loaned or sold under agreements to repurchase (2)			Ψ	151,708	Ψ		Ψ —	Ψ	151,708
	,	_		151,706		_	_		151,706
Trading account liabilities: U.S. Treasury and government agencies		13,906		181					14,087
						_	_		
Equity securities		36,937 9.636		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	(050 700)		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

<sup>10</sup> Amounts represent the impact of legally enforceable derivative master netting agreements and also cash collateral held or placed with the same counterparties.
20 Amounts have been netted by \$221.7 billion to reflect the application of legally enforceable master netting agreements.
30 Includes securities with a fair value of \$16.6 billion that were segregated in compliance with securities greements.
30 Includes securities with a fair value of \$16.6 billion that were segregated in compliance with securities greated in compliance with securities 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.
40 Includes MSRs, which are classified as Level 3 assets (\$9.0 billion.
41 Total recurring Level 3 assets were0.35 percent of total consolidated assets, and total recurring Level 3 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)

		Total Realized/Unrealized Gains	Gains			Gross		Gross Transfers	Gross Transfers		Change in Unrealized Gains (Losses) in Net Income Related to Financial
(Dollars in millions)	Balance July 1	(Losses) in Net Income (2)	(Losses) in OCI (3)	Purchases	Sales	Issuances	Settlements	into Level 3	out of Level 3	Balance September 30	Instruments Still Held (2)
Three Months Ended September 30, 2023		ilicollie (-)	III OCI (+)	Fulcilases	Jaies	issuarices	Settlements	Level 3	Level 3	September 30	rieiu (-)
Federal funds sold and securities borrowed or purchased under agreements to resell	\$ 7	s — s	<b>.</b>	s —	s —	s –	s — s	s — s	5 (7) \$	· –	<b>s</b> –
Trading account assets:											
Corporate securities, trading loans and other	2,100	53	(1)	112	(17)	_	(149)	137	(79)	2,156	16
Equity securities	159	45		4	(3)	_	(47)	51	(31)	178	(3)
Non-U.S. sovereign debt	568	16	(14)	2	(3)	_	(203)	_	_	366	16
Mortgage trading loans, MBS and ABS	1.233	(10)		40	(101)	_	(8)	90	(35)	1.209	(12)
Total trading account assets	4,060	104	(15)	158	(124)		(407)	278	(145)	3,909	17
Net derivative assets (liabilities) (4)	(4,997)	1,445	(235)	613	(395)	_	(577)	(315)	1	(4,460)	
AFS debt securities:	(4,551)	1,445	(233)	013	(333)		(377)	(313)	•	(4,400)	1,503
Non-agency residential MBS	288	(2)	(6)	_	_	_	(2)	_	_	278	(2)
Non-U.S. and other taxable securities	184	(2) 4	(6)	_	_	_	(86)	4	_	106	(2)
Tax-exempt securities	51	_	_	_		_	(00)	_	_	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)	_	_	171	(4)
Other assets (6,7)	1,809	115	(8)	168	(303)	27	(82)	_	_	1,726	83
Trading account liabilities – Equity securities	_	_	_	_	_	_	_	(12)	_	(12)	_
Trading account liabilities – Corporate securities and other	(49)	5	_	(1)	_	_	_	(27)	_	(72)	(1)
Short-term borrowings (5)	(11)	(1)	_	_	_	(6)	7	_	_	(11)	(1)
Accrued expenses and other liabilities (5)	(14)	8	_	_	_		_	_	1	(5)	8
Long-term debt (5)	(664)	3	1	_	(4)	_	24	_	_	(640)	
Three Months Ended September 30, 2022 Trading account assets:											
Corporate securities, trading loans and other	\$ 2,367	. , ,	(1)			\$ —	\$ (300) \$		. , ,		. , ,
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) AFS debt securities:	(1,682)	(266)	_	97	(238)	_	49	(62)	(115)	(2,217)	(293)
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)	_	(o) —	197	(2)
Loans held-for-sale (5)	345	(27)	(2)	_	_	_	(44)	_	_	272	(27)
Other assets (6,7)	1,750	70	(20)	_	(2)	— 78	(68)	_	(3)	1,805	61
Trading account liabilities – Corporate securities		1	(20)	_	(2)	70	(00)	_	(5)		
and other	(14)		_			_	_		_	(13)	
Short-term borrowings (5)		1	_	— (7)	(4)	_	_	(3)	_	(6)	
Accrued expenses and other liabilities (5)	(63)	7	- (40)	(7)	_	_	_	- (40)	_	(63)	
Long-term debt (5)	(812)	26	(12)				18	(13)		(793)	26

<sup>10</sup> Assets (liabilities). For assets, increase (decrease) to Level 3 and for liabilities, (increase) decrease to Level 3.
22 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; Coher income; Other debt securities carried at fair value - other income; Loans held-for-sale - other income; Coher assets - market making and similar activities and other income; Loans held-for-sale - other income; Coher assets - market making and similar activities and other income; Loans held-for-sale - other income; Coher assets - market making and similar activities and other income; Loans held-for-sale - other income; Coher assets - market making and similar activities and other income; Loans held-for-sale - other income; Coher assets - market making and similar activities and other income; Loans held-for-sale - other income; Coher assets - market making and similar activities and other income; Loans held-for-sale - other income; Coher assets - market making and similar activities and other income; Loans held-for-sale - other income; Coher assets - market making and similar activities and other income; Loans held-for-sale - other income; Coher assets - market making and similar activities and other income; Loans held-for-sale - other income; Coher and selection in the market making and similar activities and other income; Loans held-for-sale - other inco

# Level 3 – Fair Value Measurements (1)

		Total			G	ross		Gross	Gross		Change in Unrealized Gains (Losses) in Net Income Related
(Dollars in millions)	Balance January 1	Realized/Unrealized Gains (Losses) in Net Income (2)	Gains (Losses) in OCI (3)	Purchases	Sales	Issuances	Settlements	Transfers into Level 3	Transfers out of Level 3	Balance September 30	to Financial Instruments Still Held (2)
Nine Months Ended September 30, 2023											
Federal funds sold and securities borrowed or purchased under agreements to resell	\$ —	\$ _ :	\$ —	\$ - \$	_ \$	_ \$	_ ;	\$ 7	\$ (7) \$	_	\$ _
Trading account assets:											
Corporate securities, trading loans and other	2,384	114	1	336	(172)	14	(601)	331	(251)	2,156	38
Equity securities	145	39	_	20	(47)	_	(59)	134	(54)	178	(10)
Non-U.S. sovereign debt	518	54	22	38	(9)	_	(257)	_		366	56
Mortgage trading loans, MBS and ABS	1,552	(38)	_	144	(303)	_	(229)	332	(249)	1,209	(50)
Total trading account assets	4,599	169	23	538	(531)	14	(1,146)	797	(554)	3,909	34
Net derivative assets (liabilities) (4)	(2,893)	(116)	(375)	1,142	(994)	_	(1,372)	(154)	302	(4,460)	(1,794)
AFS debt securities:		, ,	. ,		` '		, , ,	` '			
Non-agency residential MBS	258	1	26	_	_	_	(7)	_	_	278	1
Non-U.S. and other taxable securities	195	8	7	_	_	_	(101)	4	(7)	106	_
Tax-exempt securities	51	_	_	_	_	_	· _ ·	_		51	_
Total AFS debt securities	504	9	33	_	_	_	(108)	4	(7)	435	1
Other debt securities carried at fair value – Non-agency residential MBS	119	(4)	_	_	(19)	_	(5)	_	(21)	70	(3)
Loans and leases (5,6)	253		_	9	(50)	_	(99)	16	(22)	107	(5)
Loans held-for-sale (5,6)	232	20	2	_	(25)	_	(58)	_	`	171	10
Other assets (6,7)	1,799	223	(1)	174	(302)	71	(240)	2	_	1,726	119
Trading account liabilities – Equity securities	_	_		_		_	` _ '	(12)	_	(12)	_
Trading account liabilities – Corporate securities								, ,		` ,	
and other	(58)	1	_	(2)	(2)	(1)	2	(33)	21	(72)	(2)
Short-term borrowings (5)	(14)	2	_	_	(13)	(8)	22	_	_	(11)	_
Accrued expenses and other liabilities (5)	(32)	38	_	(12)	_	_	_	_	1	(5)	21
Long-term debt (5)	(862)	154	(20)	(9)	49		41	_	7	(640)	158
Nine Months Ended September 30, 2022											
Trading account assets:											
Corporate securities, trading loans and other	\$ 2,110	\$ (97)	\$ (2)	\$ 943 \$	(342) \$	_ \$	(417) \$	\$ 849	\$ (695) \$	2,349	\$ (141)
Equity securities	190	2	_	41	(22)	_	(4)	29	(65)	171	(20)
Non-U.S. sovereign debt	396	58	8	18	(4)	_	(33)	52	(10)	485	55
Mortgage trading loans, MBS and ABS	1,527	(235)	_	373	(389)	_	(100)	429	(142)	1,463	(124)
Total trading account assets	4,223	(272)	6	1,375	(757)	_	(554)	1,359	(912)	4,468	(230)
Net derivative assets (liabilities) (4)	(2,662)	1,076	_	222	(589)	_	393	(241)	(416)	(2,217)	701
AFS debt securities:											
Non-agency residential MBS	316	1	(33)	_	(8)	_	(71)	74	(13)	266	1
Non-U.S. and other taxable securities	71	5	(12)	126	_	_	(14)	311	(70)	417	1
Tax-exempt securities	52	_		_						52	(1)
Total AFS debt securities	439	6	(45)	126	(8)	_	(85)	385	(83)	735	1
Other debt securities carried at fair value – Non-agency residential MBS	242	(42)	_	_	_	_	(77)	_	(23)	100	(7)
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	(11)
Other assets (6,7)	1,572	296	(25)	_	(1)	163	(201)	4	(3)	1,805	152
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)	
Long-term debt (5)	(1,075)		67	_	14	(1)	35	(19)	282	(793)	(102)

<sup>19</sup> Assets (liabilities). For assets, increase (decrease) to Level 3 and for liabilities, (increase) decrease to Level 3.
20 Includes gains (lossee) 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; Net derivative assets (liabilities) - market making and similar activities and other income; Net derivative assets (liabilities) - 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 and other income; Loans held-for-sale - other income; Other assets - market making and similar activities and other income; Loans held-for-sale - other income; Character making and similar activities and other income; Character making and similar activities and other income; Loans held-for-sale - other income; Character making and similar activities and other income; Loans held-for-sale - other income; Character making and similar activities and other income; Loans held-for-sale - other income; Character making and similar activities and other income; Loans held-for-sale - other income; Character market making and similar activities and other income; Loans held-for-sale - other income; Character market making and similar activities and other income; Loans held-for-sale - other income; Character market making and similar activities and other income; Loans held-for-sale - other income; Character market making and similar activities and other income; Loans held-for-sale - other income; Character market making and similar activities and other income; Loans held-for-sale - other income; Character market making and similar activities and other income; Loans and other income; Loans and other income; Loans and other income; Loans and other income; Loans

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						
Financial Instrument		Fair Value	Valuation Technique	Significant Unobservable Inputs	Ranges of Inputs	Weighted Average				
Loans and Securities (2)										
Instruments backed by residential real estate assets	\$	579		Yield	0% to 20%	9 %				
Trading account assets - Mortgage trading loans, MBS and ABS		129	Discounted cash flow, Market	Prepayment speed	0% to 41% CPR	10% CPR				
Loans and leases		102	comparables	Default rate	0% to 3% CDR	1% CDR				
AFS debt securities – Non-agency residential		278	comparables	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 %				
Trading account assets - Corporate securities, trading loans and other		294	Discounted cash flow	Price	\$0 to \$100	\$75				
Trading account assets - Mortgage trading loans, MBS and ABS		83	llow							
Commercial loans, debt securities and other	\$	3,558		Yield	5% to 51%	13 %				
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 %				
Trading account assets - Mortgage trading loans, MBS and ABS		997	Discounted cash flow. Market	Loss severity	35% to 40%	37 %				
AFS debt securities – Tax-exempt securities		51	comparables	Price	\$0 to \$157	\$73				
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							
			comparables	Discount rate	11 %	n/a				
MSRs	\$	1,046		Weighted-average life, fixed rate (5)	0 to 14 years	6 years				
			Discounted cash	Weighted-average life, variable rate (5)	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				apara						
Long-term debt	\$	(640)		Yield	51%	n/a				
			Discounted cash flow, Market	Equity correlation	1% to 97%	89 %				
			comparables, Industry standard derivative pricing (3)	Price	\$0 to \$100	\$90				
			derivative pricing (-)	Natural gas forward price	\$2/MMBtu to \$8/MMBtu	\$4 /MMBtu				
Net derivative assets (liabilities)				·						
Credit derivatives	\$	9		Credit spreads	3 to 81 bps	64 bps				
				Prepayment speed	15% CPR	n/a				
			Discounted cash flow, Stochastic	Default rate	2% CDR	n/a				
			recovery correlation model	Credit correlation	21% to 59%	52 %				
				Price	\$0 to \$92	\$85				
Equity derivatives	\$	(635)	Industry standard derivative	Equity correlation	0% to 99%	67 %				
		. ,	pricing (3)	Long-dated equity volatilities	2% to 94%	36 %				
Commodity derivatives	s	(545)		Natural gas forward price	\$2/MMBtu to \$8/MMBtu	\$4 /MMBtu				
	ľ	()	Discounted cash flow, Industry standard derivative pricing (3)	Power forward price	\$20 to \$92	\$42				
Interest rate derivatives	\$	(3,289)		Correlation (IR/IR)	(35)% to 89%	66 %				
				Correlation (FX/IR)	11% to 58%	37 %				
			Industry standard derivative	Long-dated inflation rates	(1)% to 12%	0 %				
			pricing (4)	Long-dated inflation volatilities	0% to 5%	1%				
				Interest rate volatilities	0% to 2%	1%				
Total net derivative assets (liabilities)	s	(4,460)								
		( ., . 50)	l .	I .						

<sup>(1)</sup> 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.

(2) The categories are aggregated based upon product type, which differs from financial statement classification. The following is a reconciliation to the line items in the table on page 92: Trading account assets – Corporate securities, trading loans and other of \$2.2 billion, Trading account assets – Nort-U.S. sovereign debt of \$366 million, Trading account, MBS and ABS of \$2.0 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.

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

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

(CPR = Constant Default Rate MMBtu = Million British thermal units IR = Interest Rate FX = Foreign Exchange n/a = not applicable

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

(Dollars in millions)	Inputs									
Financial Instrument	Fair Value	Valuation Technique	Significant Unobservable Inputs	Ranges of Inputs	Weighted Average					
Loans and Securities (2)										
Instruments backed by residential real estate assets	\$ 852		Yield	0% to 25%	10 %					
Trading account assets – Mortgage trading loans, MBS and ABS	338	Discounted cash	Prepayment speed	0% to 29% CPR	12% CPF					
Loans and leases	137	flow, Market comparables	Default rate	0% to 3% CDR						
AFS debt securities - Non-agency residential	258	, , , , , , , , , , , , , , , , , , , ,	Price	\$0 to \$111	\$2					
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%						
Trading account assets – Corporate securities, trading loans and other	292	Discounted cash	Price	\$0 to \$100	\$7					
Trading account assets – Mortgage trading loans, MBS and ABS	66	flow								
Loans held-for-sale	4									
Commercial loans, debt securities and other	\$ 4,348		Yield	5% to 43%						
Trading account assets – Corporate securities, trading loans and other	2,092		Prepayment speed	10% to 20%	15 %					
Trading account assets – Non-U.S. sovereign debt	518		Default rate	3% to 4%	4 %					
Trading account assets – Mortgage trading loans, MBS and ABS	1,148	Discounted cash flow, Market	Loss severity	35% to 40%	38 %					
AFS debt securities – Tax-exempt securities	51	comparables	Price	\$0 to \$157	\$75					
AFS debt securities – Non-U.S. and other taxable securities	195									
Loans and leases	116									
Loans held-for-sale	228									
Other assets, primarily auction rate securities	\$ 779		Price	\$10 to \$97	\$94					
		Discounted cash flow, Market comparables	Discount rate	11%	n/a					
MSRs	\$ 1,020		Weighted-average life, fixed rate (5)	0 to 14 years						
		Discounted cash	Weighted-average life, variable rate (5)	0 to 12 years						
		flow	Option-adjusted spread, fixed rate	7% to 14%						
			Option-adjusted spread, variable rate	9% to 15%	12 %					
Structured liabilities				T	T					
Long-term debt	\$ (862)	Discounted cash flow, Market	Yield	22% to 43%						
		comparables, Industry standard	Equity correlation	0% to 95%						
		derivative pricing (3)	Price	\$0 to \$119						
			Natural gas forward price	\$3/MMBtu to \$13/MMBtu	\$9/MMBtu					
Net derivative assets (liabilities)				T						
Credit derivatives	\$ (44)		Credit spreads	3 to 63 bps						
			Upfront points	0 to 100 points						
		Discounted cash flow, Stochastic		15% CPR						
		recovery correlation model	Default rate	2% CDR						
			Credit correlation	18% to 53%	44 %					
			Price	\$0 to \$151	\$60					
Equity derivatives	\$ (1,534)	Industry standard derivative	Equity correlation	0% to 100%	73 %					
		pricing (3)	Long-dated equity volatilities	4% to 101%	44 %					
Commodity derivatives	\$ (291)		Natural gas forward price	\$3/MMBtu to \$13/MMBtu	\$8/MMBtu					
·		Discounted cash flow, Industry standard derivative pricing (3)	Power forward price	\$9 to \$123	\$43					
Interest rate derivatives	\$ (1,024)		Correlation (IR/IR)	(35)% to 89%	67 %					
			Correlation (FX/IR)	11% to 58%	43 %					
		Industry standard derivative	Long-dated inflation rates	0% to 39%	1%					
		pricing (4)	Long-dated inflation volatilities	0% to 5%	2%					
			Interest rates volatilities	0% to 2%						
Total net derivative assets (liabilities)	\$ (2,893)									

# 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.

<sup>(1)</sup> 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.

(2) The categories are aggregated based upon product type, which differs from financial statement classification. The following is a reconciliation to the line items in the table on page 93: Trading account assets – Corporate securities, trading loans and other of \$2.4 billion, Trading account assets – Nort-U.S. sovereign debt of \$5.18 million, Trading account, MBS and ABS of \$.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.

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

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

(CPR = Constant Default Rate MMBtu = Million British thermal units IR = Interest Rate FX = Foreign Exchange n/a = not applicable

# **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

		Septemb	er 30,	Three Months Ended September 30, 2023		Nine Months Ended September 30, 2023	
(Dollars in millions)		Level 2	Level 3		Gains	(Loss	ses)
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)
	_	September 30, 2022			Three Months Ended September 30, 2022	Nir	ne Months Ended September 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)

10 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.

22 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.

23 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.

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

				Inp	Inputs							
Financial Instrument		ir 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 Pric	ng model	Implied yield	12% to 26%	n/a						
Loans and leases (2)		<b>129</b> Mar	ket comparables	OREO discount	10% to 66%	26 %						
				Costs to sell	8% to 24%	9 %						
Other assets (3)		905 Disc	ounted cash flow	Discount rate	7 %	n/a						
				Year Ended December 31, 2022								
Loans held-for-sale	\$	3,079 Pric	ng model	Implied yield	9% to 24%	n/a						
Loans and leases (2)		<b>166</b> Mar	ket comparables	OREO discount	10% to 66%	26 %						
				Costs to sell	8% to 24%	9 %						
Other assets (3)		165 Disc	ounted cash flow	Discount rate	7 %	n/a						

The weighted average is calculated based upon the fair value of the loans.
Represents residential mortgages where the loan has been written down to the fair value of the underlying collateral.
Represents the fair value of certain impaired renewable energy investments.

## 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.

# Fair Value Option Elections

		September 30, 2023		December 31, 2022									
(Dollars in millions)	Fair Value Carrying Amount	Fair Value Contractual Carrying Principal Amount Less Outstanding Unpaid Principal					Fair Value Carrying Amount		Contractual Principal Outstanding		Fair Value Carrying Amount Less Unpaid 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 loan 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)		

<sup>(</sup>i) 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

	Three Months Ended September 30												
		2023	2022										
Dollars in millions)	Market making and similar activities	Other Income	Total	Market making and similar activities	Other Income	Total							
.oans reported as trading account assets	\$ 58 \$	- \$	58 \$	(62)\$	<b>-</b> \$	(62)							
Frading inventory – other (1)	(900)	_	(900)	(2,141)	_	(2,141)							
Consumer and commercial loans	(50)	15	(35)	(16)	25	9							
.oans held-for-sale (2)	_	(38)	(38)	_	(86)	(86)							
Short-term borrowings	(1)	_	(1)	81	_	81							
Jnfunded loan commitments	(1)	7	6	_	27	27							
Accrued expenses and other liabilities	197	_	197	_	_	_							
.ong-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)							

	Nine Months Ended September 30											
		2023		2022								
.oans reported as trading account assets	\$ 208 \$	<b>–</b> \$	208\$	(211)\$	<b>-</b> \$	(211)						
Frading inventory – other (1)	2,065	_	2,065	(4,269)	_	(4,269)						
Consumer and commercial loans	(189)	56	(133)	(86)	(53)	(139)						
.oans held-for-sale (2)	_	(22)	(22)	_	(308)	(308)						
Short-term borrowings	10	_	10	643	_	643						
Jnfunded loan commitments	(1)	27	26	_	(61)	(61)						
Accrued expenses and other liabilities	246	_	246	_	_	_						
.ong-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						

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 Oct, see Note 12 – Accumulated Other Comprehensive Income (Loss) For more information on how the Corporation's own credit spread is determined, seeNote 20 – Fair Value Measurements to the Corporation's 2022 Annual Report on Form 10-K

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

	I hree Mon	Nine Months Ended Se	ptember 30		
Dollars in millions)	2023		2022	2023	2022
.oans reported as trading account assets	5	19 \$	(123)\$	55 \$	(434)
Consumer and commercial loans		5	19	41	(72)
.oans held-for-sale		(17)	(3)	(17)	(14)
Jnfunded loan commitments		7	27	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

	Carrying Value	Level 2	Level 3	Total
Dollars in millions)		September 30	, 2023	
inancial assets				
Loans	\$ 1,016,900 \$	49,012 \$	937,250 \$	986,262
Loans held-for-sale	7,591	4,096	3,496	7,592
inancial 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	2022	
inancial assets				
Loans	\$ 1,014,593 \$	50,194 \$	935,282 \$	985,476
Loans held-for-sale	6,871	3,417	3,455	6,872
inancial 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

# **NOTE 17 Business Segment Information**

The Corporation reports its results of operations through the following four 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.

Includes demand deposits of \$887.7 billion and \$918.9 billion with no stated maturities at September 30, 2023 and December 31, 2022.

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 Cor	rpora	tion <sup>(1)</sup>	Consumer Banking					Global Wealth & Investment Management			
(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 Banking				Global	ets					
	 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

 $<sup>\</sup>ensuremath{^{(1)}}$  There were no material intersegment revenues.

# Results of Business Segments and All Other

At and for the nine months ended September 30	Total Corporation (1)						ıking	Global Wealth & Investment Management			
(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 Banking			Global Markets				All Other			
	 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

<sup>(1)</sup> 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

		Total Co	Total Corporation Consumer Banking  Three Months Ended September 30						Global Wealth & Investment Management		
(Dollars in millions)		2023	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 Banking Global Markets						All Other (1)			
				Thr	ee Months En	ded S	eptember 30			
	 2023		2022		2023		2022	2023		2022
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)

 $<sup>\,^{(1)}\,</sup>$  All Other includes eliminations of intercompany transactions.

# Noninterest Income by Business Segment and All Other

	Total Corporation					Consumer Banking					& ement
				Ni	ine Months End	led S	eptember 30				
(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

		Globa	Global Banking Global Markets						All Other (1)		
	_				Nine	Months En	ded S	eptember 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)	

 $<sup>\</sup>ensuremath{^{(1)}}$  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		

<sup>(1)</sup> 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.

 $\begin{tabular}{lll} \textbf{Dividend Payout Ratio}- & Common dividends declared divided by net income applicable to common shareholders. \end{tabular}$ 

**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

**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**

Actonym	3		
ABS	Asset-backed securities	GWIM	Global Wealth & Investment Management
AFS	Available-for-sale	HELOC	Home equity line of credit
ALM	Asset and liability management	HQLA	High Quality Liquid Assets
AUM	Assets under management	HTM	Held-to-maturity
BANA	Bank of America, National Association	IRLC	Interest rate lock commitment
внс	Bank holding company	ISDA	International Swaps and Derivatives Association, Inc.
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 CET1	Current expected credit losses Common equity tier 1	MD&A	Management's Discussion and Analysis of 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 United States	SOFR	Secured Overnight Financing Rate
	of America	TDR	Troubled debt restructuring
GLS	Global Liquidity Sources	TLAC	Total loss-absorbing capacity
GNMA	Government National Mortgage Association	VaR	Value-at-Risk

VIE

Variable interest entity

Global systemically important bank

G-SIB

# 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 <sup>(1,2)</sup>	Weighted-Average Per Share Price	Total Shares Purchased as Part of Publicly Announced Programs (2)	Remaining Buyback Authority Amounts <sup>(3)</sup>
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	

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.

<sup>10</sup> 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.

20 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 Plansing in the MD&A on page 22 and Note 11 - Shareholders' Equityto the Coopsidated Financial Statements.

30 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

			Incorporated		ted by Reference	
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)					

# **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

/s/ Rudolf A. Bless Date: October 31, 2023

Rudolf A. Bless Chief Accounting Officer

<sup>(</sup>i) Filed herewith.
(ii) 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.
(ii) 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;
- 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):
  - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: October 31, 2023

<u>/s/ Brian T. Moynihan</u> 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):
  - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: 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.

Date: October 31, 2023

/s/ Brian T. Moynihan Brian T. Moynihan Chief Executive Officer

# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

# I, 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