# 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 June 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 1-9924** 

# **Citigroup Inc.**

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

52-1568099

(I.R.S. Employer Identification No.) 10013

(Zip code)

**388 Greenwich Street, New York** NY (Address of principal executive offices)

(212) 559-1000

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Securities Exchange Act of 1934 formatted in Inline XBRL: See Exhibit 99.01

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  $\boxtimes$  No  $\square$ 

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes 🗷 No 🗆

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

Large accelerated filer 🗵 Accelerated filer 🗆 Non-accelerated filer 🗆 Smaller reporting company 🗆

Emerging growth company □

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

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes 🗆 No 🗷

Number of shares of Citigroup Inc. common stock outstanding on June 30, 2023: 1,925,702,484

Available on the web at www.citigroup.com

# CITIGROUP'S SECOND QUARTER 2023—FORM 10-Q

OVERVIEW	<u>1</u>
MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS	<u>3</u>
Executive Summary	<u>3</u>
Summary of Selected Financial Data	<u>8</u>
Segment Revenues and Income (Loss)	<u>10</u>
Segment Balance Sheet	<u>11</u>
Institutional Clients Group	<u>12</u>
Personal Banking and Wealth Management	<u>16</u>
Legacy Franchises	<u>18</u>
Corporate/Other	<u>21</u>
CAPITAL RESOURCES	<u>22</u>
MANAGING GLOBAL RISK TABLE OF CONTENTS	<u>35</u>
MANAGING GLOBAL RISK	<u>36</u>
SIGNIFICANT ACCOUNTING POLICIES AND SIGNIFICANT ESTIMATES	<u>77</u>
DISCLOSURE CONTROLS AND PROCEDURES	<u>82</u>
DISCLOSURE PURSUANT TO SECTION 219 OF THE IRAN THREAT REDUCTION AND SYRIA HUMAN RIGHTS ACT	<u>82</u>
FORWARD-LOOKING STATEMENTS	<u>83</u>
FINANCIAL STATEMENTS AND NOTES TABLE OF CONTENTS	<u>87</u>
CONSOLIDATED FINANCIAL STATEMENTS	<u>88</u>
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (UNAUDITED)	<u>95</u>
UNREGISTERED SALES OF EQUITY SECURITIES, REPURCHASES OF EQUITY SECURITIES AND DIVIDENDS	210
OTHER INFORMATION	210
GLOSSARY OF TERMS AND ACRONYMS	210
ULUSSANI UL TENNS AND ACNUTINS	<u> 212</u>

### **OVERVIEW**

This Quarterly Report on Form 10-Q should be read in conjunction with Citigroup's Annual Report on Form 10-K for the year ended December 31, 2022 (referred to as the 2022 Form 10-K) and Citigroup's Quarterly Report on Form 10-Q for the quarter ended March 31, 2023 (First Quarter of 2023 Form 10-Q).

Throughout this report, "Citigroup," "Citi" and "the Company" refer to Citigroup Inc. and its consolidated subsidiaries. All "Note" references correspond to the Notes to the Consolidated Financial Statements herein, unless otherwise indicated.

For a list of certain terms and acronyms used in this Quarterly Report on Form 10-Q and other Citigroup presentations, see "Glossary of Terms and Acronyms" at the end of this report.

Additional information about Citigroup is available on Citi's website at www.citigroup.com. Citigroup's recent annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and proxy statements, as well as other filings with the U.S. Securities and Exchange Commission (SEC) are available free of charge through Citi's website by clicking on "SEC Filings" under the "Investors" tab. The SEC's website also contains these filings and other information regarding Citi at www.sec.gov.

Please see "Risk Factors" in Citi's 2022 Form 10-K for a discussion of material risks and uncertainties that could impact Citigroup's businesses, results of operations and financial condition.

#### **Non-GAAP Financial Measures**

Citi prepares its financial statements in accordance with U.S. generally accepted accounting principles (GAAP) and also presents certain non-GAAP financial measures (non-GAAP measures) that exclude certain items or otherwise include components that differ from the most directly comparable measures calculated in accordance with U.S. GAAP. Non-GAAP measures are provided as additional useful information to assess Citi's financial condition and results of operations, including providing an additional meaningful depiction of underlying fundamentals of period-to-period operating results. These non-GAAP measures are not intended as a substitute for GAAP financial measures and may not be defined or calculated the same way as non-GAAP measures with similar names used by other companies.

Citi's non-GAAP financial measures in this Form 10-Q include:

- Results excluding divestiture-related impacts
- Tangible common equity (TCE), return on tangible common equity (RoTCE) and tangible book value per share (TBVPS)
- Banking and Corporate lending revenues excluding gains (losses) on loan hedges
- Non-*ICG* Markets net interest income

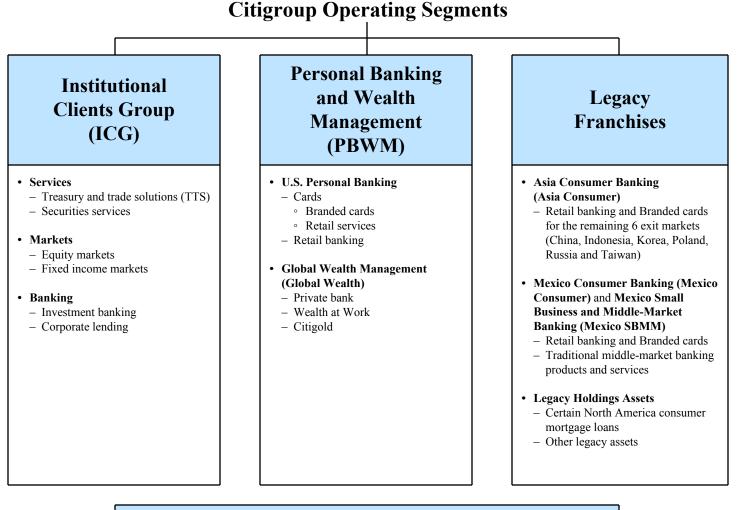
Citi's results excluding divestiture-related impacts represent as reported, or GAAP, financial results adjusted for items that are incurred and recognized, which are wholly and necessarily a consequence of actions taken to sell (including through a public offering), dispose of or wind down business activities associated with Citi's announced 14 exit markets. For additional information on results excluding divestiturerelated impacts, see "Executive Summary" and "*Legacy Franchises*" below.

For more information on TCE, RoTCE and TBVPS, see "Capital Resources—Tangible Common Equity, Book Value Per Share, Tangible Book Value Per Share and Return on Equity" below.

For more information on Banking and Corporate lending revenues excluding gains (losses) on loan hedges, see "Executive Summary" and "Institutional Clients Group" below.

For more information on non-*ICG* Markets net interest income, see "Market Risk—Non-*ICG* Markets Net Interest Income" below.

Citigroup is managed pursuant to three operating segments: Institutional Clients Group, Personal Banking and Wealth Management and Legacy Franchises. Activities not assigned to the operating segments are included in Corporate/Other.

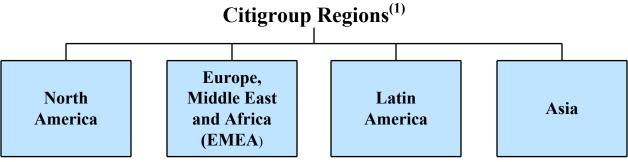


# Corporate/Other

- Corporate Treasury managed activities
- Operations and technology
- Global staff functions and other corporate expenses
- Discontinued operations

For additional information on *ICG*, *PBWM* and *Legacy Franchises*, including their businesses and products and services, see each operating segment's discussion and analysis of its results of operations below.

The following are the four regions in which Citigroup operates. The regional results are fully reflected in the operating segments and *Corporate/Other* above.



(1) North America includes the U.S., Canada and Puerto Rico, Latin America includes Mexico and Asia includes Japan.

# MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

#### EXECUTIVE SUMMARY

Second Quarter of 2023—Results Continued to Benefit from Diversified Business Model and Strong Balance Sheet As described further throughout this Executive Summary, during the second quarter of 2023:

- Citi's revenues decreased 1% versus the prior-year period, both on a reported basis and excluding divestiture-related impacts (see "*Legacy Franchises*" below). The decrease in revenues was primarily driven by lower non-interest revenues, mainly offset by higher net interest income.
- Citi's expenses increased 9% versus the prior-year period, both on a reported basis and excluding divestiture-related impacts (see "*Legacy Franchises*" below), largely driven by continued investments in risk and controls, businessled and enterprise-led investments, volume growth and macroeconomic factors, including inflation, as well as severance costs. The expense increase was partially offset by productivity savings and an expense reduction from the exited markets and continued wind-downs (see "Expenses" below).
- Citi's cost of credit was \$1.8 billion versus \$1.3 billion in the prior-year period. The increase was primarily driven by higher net credit losses, reflecting the continued normalization in net credit losses in Branded cards and Retail services.
- Citi returned \$2.0 billion to common shareholders in the form of dividends and share repurchases. As previously disclosed, in July 2023 Citi's Board of Directors declared a quarterly common stock dividend of \$0.53 per share for the third quarter of 2023, up from \$0.51 in the previous quarter. Citi intends to maintain a quarterly common dividend of at least \$0.53 per share, subject to financial and macroeconomic conditions, as well as Board of Directors approval.
- Citi's Common Equity Tier 1 (CET1) Capital ratio under the Basel III Standardized Approach increased to 13.4% as of June 30, 2023, compared to 12.0% as of June 30, 2022 (see "Capital Resources" below). This compares to Citi's required regulatory CET1 Capital ratio of 12.0% as of January 1, 2023 under the Basel III Standardized Approach. As previously disclosed, on October 1, 2023, Citi's required regulatory CET1 Capital ratio will increase to 12.3% from 12.0% under the Standardized Approach reflecting the increase in the Stress Capital Buffer (SCB) requirement to 4.3% from 4.0% (see "Capital Resources —Stress Capital Buffer" below).

In May 2023, Citi announced that it intends to pursue an initial public offering (IPO) of its consumer, small business and middle-market banking operations in Mexico, following the planned separation from Citi's *Institutional Clients Group (ICG)* and Private bank businesses in Mexico, both of which will remain part of Citi.

• Citi continued to make progress on its other consumer banking business divestitures in the second quarter of 2023, including working toward the closing of its Taiwan and Indonesia sale transactions in the second half of 2023, as well as progressing with the continued wind-downs of the Korea and China consumer banking businesses and the Russia consumer, local commercial and institutional businesses. In addition, Citi intends to restart the exit process for the consumer banking business in Poland later in 2023, subject to market conditions.

#### Second Quarter of 2023 Results Summary

#### Citigroup

Citigroup reported net income of \$2.9 billion, or \$1.33 per share, compared to net income of \$4.5 billion, or \$2.19 per share in the prior-year period. The decrease in net income was primarily driven by the higher expenses and the higher cost of credit, as well as the lower revenues. Citigroup's effective tax rate was approximately 27% in the current quarter versus 20% in the prior-year period, largely driven by the geographic mix of earnings (see "Income Taxes" below). Earnings per share (EPS) decreased 39% from the prior-year period, reflecting the lower net income and an approximate 1% increase in average diluted shares outstanding.

Results for the second quarter of 2023 included divestiture-related impacts of \$(73) million in earnings before taxes (\$(92) million after-tax). See "*Legacy Franchises*" and "*Corporate/Other*" below for details about the divestiturerelated impacts.

These divestiture-related impacts, collectively, had a \$(0.04) negative impact on EPS in the current quarter. Excluding these divestiture-related impacts, EPS was \$1.37. (As used throughout this Form 10-Q, Citi's results of operations and financial condition excluding the impact of divestiture-related impacts are non-GAAP financial measures.)

Results for the second quarter of 2022 included divestiture-related impacts of \$48 million in earnings before taxes (\$35 million after-tax). See "*Legacy Franchises*" below for details about the divestiture-related impacts.

These divestiture-related impacts, collectively, had a \$0.02 beneficial impact on EPS in the prior-year period. Excluding these divestiture-related impacts, EPS was \$2.17.

Citigroup revenues of \$19.4 billion in the second quarter of 2023 decreased 1% from the prior-year period, both on a reported basis and excluding divestiture-related impacts. The lower revenues reflected a decline in revenues across Markets and Investment banking in *ICG* and Global Wealth Management (Global Wealth) in *Personal Banking and Wealth Management (PBWM)*, as well as a revenue reduction from the exited markets and continued wind-downs in *Legacy Franchises*. The decline in revenues was largely offset by strength across Services in *ICG*, U.S. Personal Banking revenues in *PBWM* and higher revenues from the investment portfolio in *Corporate/Other*. Citigroup's end-of-period loans were \$661 billion, up 1% versus the prior-year period, driven by growth in *PBWM*, primarily driven by U.S. Personal Banking, largely offset by declines in *ICG* and *Legacy Franchises*.

Citigroup's end-of-period deposits were approximately \$1.3 trillion, largely unchanged versus the prior-year period, as a decrease in *ICG*, primarily driven by Securities services, was offset by an increase in institutional certificates of deposit in *Corporate/Other*. For additional information about Citi's deposits by business, including drivers and deposit trends, see each respective business's results of operations and "Liquidity Risk—Deposits" below.

#### Expenses

Citigroup's operating expenses of \$13.6 billion increased 9% from the prior-year period, both on a reported basis and excluding divestiture-related impacts. The higher expenses largely reflected continued investments in risk and controls, business-led and enterprise-led investments, volume growth and macroeconomic factors, including inflation, as well as severance costs. The higher expenses were partially offset by productivity savings and expense reductions from the exited markets and wind-downs in *Legacy Franchises*.

As previously disclosed, Citi expects a sequential increase in expenses for the third quarter of 2023, primarily reflecting continued investments in Citi's transformation and other risk and controls.

#### Cost of Credit

Citi's total provisions for credit losses and for benefits and claims was a cost of \$1.8 billion, compared to \$1.3 billion in the prior-year period. This increase was driven by higher net credit losses (see below), partially offset by a lower net build of \$320 million in the ACL for loans and unfunded commitments and other provisions. The net ACL build and other provisions in the current quarter were primarily driven by growth in card balances in Branded cards and Retail services. This compared to a net ACL build and other provisions of \$424 million in the prior-year period. For additional information on Citi's ACL, see "Significant Accounting Policies and Significant Estimates—Citi's Allowance for Credit Losses (ACL)" below.

Net credit losses of \$1.5 billion increased 77% from the prior year. Consumer net credit losses of \$1.4 billion increased 73%, reflecting ongoing normalization, particularly in Branded cards and Retail services. Corporate net credit losses increased to \$75 million from \$23 million.

Citi also expects to incur higher year-over-year net credit losses for the third quarter of 2023, primarily driven by continued normalization, particularly in the cards business in *PBWM*.

For additional information on Citi's consumer and corporate credit costs, see each respective business's results of operations and "Credit Risk" below.

#### Capital

Citigroup's CET1 Capital ratio was 13.4% as of June 30, 2023, compared to 12.0% as of June 30, 2022, based on the Basel III Standardized Approach for determining risk-weighted assets (RWA). The increase was primarily driven by

net income, the impacts from the closing of the Asia consumer banking business sales and business actions, including a reduction in RWA, partially offset by the payment of common dividends and share repurchases.

As previously announced, during the second quarter of 2023, Citi resumed common share repurchases, and repurchased \$1.0 billion of common shares (see "Unregistered Sales of Equity Securities, Repurchases of Equity Securities and Dividends" below). Citi will continue to assess common share repurchases on a quarter-by-quarter basis given uncertainty regarding regulatory capital requirements. For additional information, see "Capital Resources—Regulatory Capital Standards and Developments" below.

Citigroup's Supplementary Leverage ratio as of June 30, 2023 was 6.0%, compared to 5.7% as of June 30, 2022. The increase was driven by higher Tier 1 Capital, partially offset by an increase in Total Leverage Exposure. For additional information on Citi's capital ratios and related components, see "Capital Resources" below.

#### Institutional Clients Group

*ICG* net income of \$2.2 billion decreased 45%, primarily driven by lower revenues, higher expenses and higher cost of credit. *ICG* operating expenses of \$7.3 billion increased 13%, primarily driven by continued investments in Treasury and trade solutions (TTS), continued risk and controls investments and severance costs in Markets and Investment banking, partially offset by productivity savings.

*ICG* revenues of \$10.4 billion decreased 9% (including gain (loss) on loan hedges), primarily driven by a decline in Markets and Banking, partially offset by growth in Services. Results included a loss on loan hedges of \$66 million in the second quarter of 2023, compared with a gain on loan hedges of \$494 million in the prior-year period.

Services revenues of \$4.7 billion increased 15%. TTS revenues of \$3.5 billion increased 15%, driven by 18% growth in net interest income and 8% growth in non-interest revenue. Strong performance in TTS was primarily driven by higher interest rates and non-interest revenue benefits from continued growth of underlying drivers, primarily an 11% increase in cross-border transaction value and a 15% increase in commercial card spend volume. Securities services revenues of \$1.1 billion increased 15%, as net interest income increased 62%, largely driven by higher interest rates across currencies.

Markets revenues of \$4.6 billion decreased 13%, driven by lower revenues in both Fixed income markets and Equity markets relative to strong performance in the prior-year period, as well as low volatility in the second quarter of 2023. Fixed income markets revenues of \$3.5 billion decreased 13%, driven by declines in currencies and commodities, partially offset by modest growth in rates. Equity markets revenues of \$1.1 billion decreased 10%, primarily reflecting a decline in equity derivatives revenues.

Banking revenues of \$1.2 billion decreased 44%, including the gain (loss) on loan hedges in the current quarter and the prior-year period. Excluding the gain (loss) on loan hedges, Banking revenues of \$1.2 billion decreased 22%, driven by lower revenues in Investment banking and Corporate lending. Investment banking revenues of \$612 million decreased 24%, reflecting a decline in the overall market wallet, as continued macroeconomic and geopolitical uncertainty continued to adversely impact client activity. Corporate lending revenues decreased 56%, including the impact of the gain (loss) on loan hedges. Excluding the impact of the gain (loss) on loan hedges, Corporate lending revenues decreased 20% versus the prior-year period, primarily driven by the impacts of foreign currency translation and lower lending volumes. (As used throughout this Form 10-Q, Citi's results of operations and financial condition excluding the impact of the gain (loss) on loan hedges are non-GAAP financial measures.)

For additional information on the results of operations of *ICG* for the second quarter of 2023, see "*Institutional Clients Group*" below.

#### Personal Banking and Wealth Management

*PBWM* net income of \$494 million decreased 11%, driven by higher cost of credit and higher expenses, partially offset by higher revenues. *PBWM* operating expenses of \$4.2 billion increased 5%, primarily driven by continued risk and controls investments.

*PBWM* revenues of \$6.4 billion increased 6%, as net interest income growth, driven by strong loan growth across U.S. Personal Banking, was partially offset by a decline in non-interest revenue, driven by lower investment product revenues in Global Wealth.

U.S. Personal Banking revenues of \$4.6 billion increased 11%, primarily driven by higher revenues in cards, partially offset by lower Retail banking revenues. Branded cards revenues of \$2.4 billion increased 8%, primarily driven by the higher net interest income, as average loans increased 14%. Retail services revenues of \$1.6 billion increased 27%, primarily driven by the higher net interest income, as well as lower partner payments. Retail banking revenues of \$594 million decreased 9%, primarily reflecting the transfer of certain relationships and the associated deposit balances to Global Wealth.

Global Wealth revenues of \$1.8 billion decreased 5%, largely driven by continued investment product revenue headwinds and higher interest rates paid on deposits, partially offset by the benefits from the continued transfer of Retail banking relationships.

For additional information on the results of operations of *PBWM* for the second quarter of 2023, see "*Personal Banking and Wealth Management*" below.

#### Legacy Franchises

*Legacy Franchises* recorded a net loss of \$125 million, compared to a net loss of \$17 million in the prior-year period, primarily driven by higher cost of credit, partially offset by lower expenses. *Legacy Franchises* expenses of \$1.8 billion decreased 2%, primarily driven by the impact of exited markets and continued wind-downs.

*Legacy Franchises* revenues of \$1.9 billion decreased 1%, driven by the reductions from exited markets and continued wind-downs, partially offset by the benefit of higher rates and lending volumes in Mexico Consumer/SBMM, as well as higher revenues in Legacy Holdings Assets.

For additional information on the results of operations of *Legacy Franchises* for the second quarter of 2023, see *"Legacy Franchises"* below.

#### Corporate/Other

*Corporate/Other* net income was \$356 million, compared to \$50 million in the prior-year period, largely driven by higher net interest income from *Deposits with banks* and the investment portfolio, a reserve release related to the repayment of the previously disclosed First Republic Bank deposit and the prior-year release of a CTA loss (net of hedges) from *AOCI* (for additional information, see Note 2). The increase in net income was partially offset by lower income tax benefits and higher expenses. *Corporate/Other* operating expenses of \$302 million increased from \$160 million in the prior-year period, primarily driven by the impact of inflation and severance costs and the absence of certain settlements that occurred in the prior-year period, partially offset by lower consulting expenses.

*Corporate/Other* revenues of \$677 million increased from \$255 million in the prior-year period, primarily driven by higher net interest income from *Deposits with banks* and the investment portfolio, largely due to higher interest rates.

For additional information on the results of operations of *Corporate/Other* for the second quarter of 2023, see *"Corporate/Other"* below.

#### Macroeconomic and Other Risks and Uncertainties

Various geopolitical, macroeconomic and regulatory challenges and uncertainties continue to adversely impact economic conditions in the U.S. and globally, including central banks continuing to increase interest rates, continued elevated levels of inflation and economic and geopolitical challenges related to both China and the Russia–Ukraine war. These and other factors have adversely affected financial markets, negatively impacted global economic growth rates and raised fears of recession in the U.S., Europe and other regions and countries. In addition, these and other factors could adversely affect Citi's customers, clients, businesses, funding costs, expenses and overall results of operations and financial condition during the remainder of 2023.

In May 2023, the Federal Deposit Insurance Corporation (FDIC) issued a proposal that would implement a special assessment to recover its uninsured deposit losses from recent bank failures. The FDIC estimated that the preliminary cost of the failures is approximately \$15.8 billion, an estimate that would be periodically adjusted. If finalized as proposed, the FDIC is proposing to collect the special assessment at an annual rate of approximately 12.5 basis points of uninsured deposits, over eight quarterly assessment periods beginning in 2024. Citi is likely to incur a significant increase in its operating expenses if the final rule for the FDIC special assessment is enacted as proposed, which is expected before the end of 2023. For additional information on the expected impact, see Note 26.

In July 2023, the U.S. banking agencies issued a notice of proposed rulemaking, known as the Basel III Endgame, related to regulatory capital requirements. The rule as proposed would have a material impact on Citi's current capital position; however, its finalization and implementation will be a multiyear process, including phase-in periods to meet the new capital requirements. Citi plans to comment on the proposal and adapt business activities to address associated impacts, if necessary, and will be in compliance with the final rule, once it is in effect and implemented. For additional information, see "Capital Resources—Regulatory Capital Standards and Developments" below.

For a further discussion of trends, uncertainties and risks that will or could impact Citi's businesses, results of operations, capital and other financial condition during the remainder of 2023, see "Second Quarter of 2023 Results Summary" above and each respective business's results of operations, "Managing Global Risk," including "Managing Global Risk—Other Risks—Country Risk—Russia" and "— Argentina," and "Forward-Looking Statements" below and "Risk Factors" in Citi's 2022 Form 10-K. This page intentionally left blank.

# **RESULTS OF OPERATIONS**

# SUMMARY OF SELECTED FINANCIAL DATA

Citigroup Inc. and Consolidated Subsidiaries

	Second Qua	arter		Six M		
In millions of dollars, except per share amounts	2023	2022	% Change	2023	2022	% Change
Net interest income	\$ 13,900 \$	11,964	16 %	\$ 27,248	\$ 22,835	19 %
Non-interest revenue	5,536	7,674	(28)	13,635	15,989	(15)
Revenues, net of interest expense	\$ 19,436 \$	19,638	(1)%	\$ 40,883	\$ 38,824	5 %
Operating expenses	13,570	12,393	9	26,859	25,558	5
Provisions for credit losses and for benefits and claims	1,824	1,274	43	3,799	2,029	87
Income from continuing operations before income taxes	\$ 4,042 \$	5,971	(32)%	\$ 10,225	\$ 11,237	(9)%
Income taxes	1,090	1,182	(8)	2,621	2,123	23
Income from continuing operations	\$ 2,952 \$	4,789	(38)%	\$ 7,604	\$ 9,114	(17)%
Income (loss) from discontinued operations, net of taxes	(1)	(221)	100	(2)	(223)	99
Net income before attribution of noncontrolling interests	\$ 2,951 \$	4,568	(35)%	\$ 7,602	\$ 8,891	(14)%
Net income attributable to noncontrolling interests	36	21	71	81	38	NM
Citigroup's net income	\$ 2,915 \$	4,547	(36)%	\$ 7,521	\$ 8,853	(15)%
Earnings per share						
Basic						
Income from continuing operations	\$ 1.34 \$	2.32	(42)%	\$ 3.55	\$ 4.34	(18)%
Net income	1.34	2.20	(39)	3.54	4.23	(16)
Diluted						
Income from continuing operations	\$ 1.33 \$	2.30	(42)%	\$ 3.52	\$ 4.32	(19)%
Net income	1.33	2.19	(39)	3.52	4.20	(16)
Dividends declared per common share	0.51	0.51	_	1.02	1.02	_
Common dividends	\$ 1,004 \$	1,010	(1)%	\$ 2,004	\$ 2,024	(1)%
Preferred dividends <sup>(1)</sup>	288	238	21	565	517	9
Common share repurchases	1,000	250	NM	1,000	3,250	(69)

Table continues on the next page, including footnotes.

# SUMMARY OF SELECTED FINANCIAL DATA (Continued)

Citigroup Inc. and Consolidated Subsidiaries

		Second	Qua	arter		Six N	_	
In millions of dollars, except per share amounts, ratios and direct staff		2023		2022	% Change	2023	2022	% Change
At June 30:								
Total assets	\$2,4	23,675	\$2,	380,904	2 %			
Total deposits	1,3	19,867	1,	321,848	_			
Long-term debt	2	74,510		257,425	7			
Citigroup common stockholders' equity	1	88,474		180,019	5			
Total Citigroup stockholders' equity	2	08,719		199,014	5			
Average assets	2,4	65,614	2,	380,053	4	\$2,463,929	\$2,377,047	4 %
Direct staff (in thousands)		240		231	4 %			
Performance metrics								
Return on average assets		0.47 %	ó	0.77 %	<i>′</i> 0	0.62 %	0.75 %	
Return on average common stockholders' equity <sup>(2)</sup>		5.6		9.7		7.5	9.3	
Return on average total stockholders' equity <sup>(2)</sup>		5.6		9.2		7.4	9.0	
Return on tangible common equity (RoTCE) <sup>(3)</sup>		6.4		11.2		8.7	10.8	
Efficiency ratio (total operating expenses/total revenues, net)		69.8		63.1		65.7	65.8	
Basel III ratios								
CET1 Capital <sup>(4)(5)</sup>		13.37 %	, 0	11.95 %	<b>0</b>			
Tier 1 Capital <sup>(4)(5)</sup>		15.24		13.62				
Total Capital <sup>(4)(5)</sup>		16.04		15.20				
Supplementary Leverage ratio <sup>(5)</sup>		5.97		5.66				
Citigroup common stockholders' equity to assets		7.78 %	, 0	7.56 %	⁄0			
Total Citigroup stockholders' equity to assets		8.61		8.36				
Dividend payout ratio <sup>(6)</sup>		38		23		29 %	24 %	
Total payout ratio <sup>(7)</sup>		76		29		43	63	
Book value per common share	\$	97.87	\$	92.95	5 %			
Tangible book value per share (TBVPS) <sup>(3)</sup>		85.34		80.25	6			

(1) Certain series of preferred stock have semiannual payment dates. See Note 21 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

(2) The return on average common stockholders' equity is calculated using net income less preferred stock dividends divided by average common stockholders' equity. The return on average total Citigroup stockholders' equity is calculated using net income divided by average Citigroup stockholders' equity.

(3) RoTCE and TBVPS are non-GAAP financial measures. For information on RoTCE and TBVPS, see "Capital Resources—Tangible Common Equity, Book Value Per Share, Tangible Book Value Per Share and Return on Equity" below.

(4) Citi's binding CET1 Capital and Tier 1 Capital ratios were derived under the Basel III Standardized Approach, whereas Citi's binding Total Capital ratio was derived under the Basel III Advanced Approaches framework for both periods presented.

(5) Certain of the above prior-period amounts have been revised to conform with enhancements made in the current period.

(6) Dividends declared per common share as a percentage of net income per diluted share.

(7) Total common dividends declared plus common share repurchases as a percentage of net income available to common shareholders (*Net income* less preferred dividends). See "Consolidated Statement of Changes in Stockholders' Equity," Note 9 and "Equity Security Repurchases" below for the component details. NM Not meaningful

# SEGMENT REVENUES AND INCOME (LOSS)

## REVENUES

	 Second Qu	larter		Six Mo			
In millions of dollars	2023	2022	% Change	2023	2022	% Change	
Institutional Clients Group	\$ 10,441 \$	11,419	(9)%	\$ 21,674 \$	22,579	(4)%	
Personal Banking and Wealth Management	6,395	6,029	6	12,843	11,934	8	
Legacy Franchises	1,923	1,935	(1)	4,775	3,866	24	
Corporate/Other	677	255	NM	1,591	445	NM	
Total Citigroup net revenues	\$ 19,436 \$	19,638	(1)%	\$ 40,883 \$	38,824	5 %	

NM Not meaningful

## INCOME

	Second Qu	arter		Six Mo		
In millions of dollars	2023	2022	% Change	2023	2022	% Change
Income (loss) from continuing operations						
Institutional Clients Group	\$ 2,219 \$	3,978	(44)%	\$ 5,517	\$ 6,636	(17)%
Personal Banking and Wealth Management	494	553	(11)	983	2,413	(59)
Legacy Franchises	(122)	(15)	NM	484	(400)	NM
Corporate/Other	361	273	32	620	465	33
Income from continuing operations	\$ 2,952 \$	4,789	(38)%	\$ 7,604	\$ 9,114	(17)%
Discontinued operations	\$ (1) \$	(221)	100 %	\$ (2)	\$ (223)	99 %
Less: Net income attributable to noncontrolling interests	36	21	71	81	38	NM
Citigroup's net income	\$ 2,915 \$	4,547	(36)%	\$ 7,521	\$ 8,853	(15)%

NM Not meaningful

# SEGMENT BALANCE SHEET<sup>(1)</sup>—JUNE 30, 2023

In millions of dollars	Ir	stitutional Clients Group	ar	Personal Banking 1d Wealth anagement	Legacy ranchises	orporate/Other and consolidating eliminations <sup>(2)</sup>	îs	Citigroup arent company- sued long-term debt and stockholders' equity <sup>(3)</sup>	Total Citigroup onsolidated_
Assets									
Cash and deposits with banks, net of allowance	\$	98,975	\$	5,764	\$ 3,393	\$ 188,776	\$	_	\$ 296,908
Securities borrowed and purchased under agreements to resell, net of allowance		336,768		30	305	_		_	337,103
Trading account assets		409,408		1,307	705	11,769		_	423,189
Investments, net of allowance		141,868		13	1,618	363,646		_	507,145
Loans, net of unearned income and allowance for credit losses on loans		275,323		331,717	36,076	_		_	643,116
Other assets, net of allowance		119,689		25,912	25,284	45,329		_	216,214
Net intersegment liquid assets <sup>(4)</sup>		382,785		108,050	25,031	(515,866)		—	_
Total assets	\$	1,764,816	\$	472,793	\$ 92,412	\$ 93,654	\$	_	\$ 2,423,675
Liabilities and equity									
Total deposits	\$	818,244	\$	426,791	\$ 52,981	\$ 21,851	\$	—	\$ 1,319,867
Securities loaned and sold under agreements to repurchase		257,262		45	2,728	_		_	260,035
Trading account liabilities		169,183		476	254	751		_	170,664
Short-term borrowings		29,765		1		10,664		_	40,430
Long-term debt <sup>(3)</sup>		101,111		189	84	10,083		163,043	274,510
Other liabilities		98,710		11,417	23,679	14,941		_	148,747
Net intersegment funding (lending) <sup>(3)</sup>		290,541		33,874	12,686	34,661		(371,762)	
Total liabilities	\$	1,764,816	\$	472,793	\$ 92,412	\$ 92,951	\$	(208,719)	\$ 2,214,253
Total equity <sup>(5)</sup>				_	_	703		208,719	209,422
Total liabilities and equity	\$	1,764,816	\$	472,793	\$ 92,412	\$ 93,654	\$		\$ 2,423,675

(1) The supplemental information presented in the table above reflects Citigroup's consolidated GAAP balance sheet by reportable segment and component. The respective segment information depicts the assets and liabilities managed by each segment.

(2) Consolidating eliminations for total Citigroup and Citigroup parent company assets and liabilities are recorded within Corporate/Other.

(3) The total equity and the majority of long-term debt of Citigroup are reflected on the Citigroup parent company balance sheet (see Notes 17 and 27). Citigroup allocates stockholders' equity and long-term debt to its businesses through intersegment allocations as shown above.

(4) Represents the attribution of Citigroup's liquid assets (primarily consisting of cash, marketable equity securities and AFS debt securities) to the various businesses based on Liquidity Coverage ratio (LCR) assumptions.

(5) Corporate/Other equity represents noncontrolling interests.

## INSTITUTIONAL CLIENTS GROUP

*Institutional Clients Group (ICG)* includes Services, Markets and Banking (for additional information on these businesses, see "Citigroup Operating Segments" above). *ICG* provides corporate, institutional and public sector clients around the world with a full range of wholesale banking products and services, including fixed income and equity sales and trading, foreign exchange, prime brokerage, derivative services, equity and fixed income research, corporate lending, investment banking and advisory services, cash management, trade finance and securities services. *ICG* transacts with clients in both cash instruments and derivatives, including fixed income, foreign currency, equity and commodity products. For more information on *ICG*'s business activities, see "*Institutional Clients Group*" in Citi's 2022 Form 10-K.

*ICG*'s international presence is supported by trading floors in approximately 80 countries and a proprietary network in 95 countries and jurisdictions. As previously disclosed, as of March 31, 2023, Citi ended nearly all of the institutional banking services it offered in Russia, with the remaining services only those necessary to fulfill its remaining legal and regulatory obligations. For additional information about Citi's continued efforts to reduce its operations and exposure in Russia, see "*Legacy Franchises*" and "Managing Global Risk—Other Risks—Country Risk—Russia" below.

At June 30, 2023, *ICG* had \$1.8 trillion in assets and \$818 billion in deposits. Securities services managed \$23.7 trillion in assets under custody and administration at June 30, 2023, of which Citi provided both custody and administrative services to certain clients related to \$2.2 trillion of such assets. Managed assets under trust were \$4.1 trillion at June 30, 2023. For additional information on these operations, see "Administration and Other Fiduciary Fees" in Note 5.

	Second	Qu	arter		Six N			
In millions of dollars, except as otherwise noted	2023		2022	% Change	2023		2022	% Change
Commissions and fees	\$ 1,126	\$	1,125	- %	\$ 2,276	\$	2,255	1 %
Administration and other fiduciary fees	709		732	(3)	1,363		1,404	(3)
Investment banking fees <sup>(1)</sup>	686		990	(31)	1,520		2,029	(25)
Principal transactions	2,463		4,358	(43)	6,172		8,800	(30)
Other	(166)		(306)	46	(308)		(213)	(45)
Total non-interest revenue	\$ 4,818	\$	6,899	(30)%	\$ 11,023	\$	14,275	(23)%
Net interest income (including dividends)	5,623		4,520	24	10,651		8,304	28
Total revenues, net of interest expense	\$ 10,441	\$	11,419	(9)%	\$ 21,674	\$	22,579	(4)%
Total operating expenses	\$ 7,286	\$	6,434	13 %	\$ 14,259	\$	13,157	8 %
Net credit losses on loans	\$ 73	\$	18	NM	\$ 95	\$	48	98 %
Credit reserve build (release) for loans	(150)		(76)	(97)%	(225)		520	NM
Provision (release) for credit losses on unfunded lending commitments	(88)		(169)	48	(258)		183	NM
Provisions (releases) for credit losses on HTM debt securities and other assets	223		25	NM	374		18	NM
Provisions (releases) for credit losses	\$ 58	\$	(202)	NM	\$ (14)	\$	769	NM
Income from continuing operations before taxes	\$ 3,097	\$	5,187	(40)%	\$ 7,429	\$	8,653	(14)%
Income taxes	878		1,209	(27)	1,912		2,017	(5)
Income from continuing operations	\$ 2,219	\$	3,978	(44)%	\$ 5,517	\$	6,636	(17)%
Noncontrolling interests	29		17	71	69		35	97
Net income	\$ 2,190	\$	3,961	(45)%	\$ 5,448	\$	6,601	(17)%
Balance Sheet data (in billions of dollars)								
EOP assets	\$ 1,765	\$	1,700	4 %				
Average assets	1,795		1,698	6	\$ 1,785	\$	1,692	5 %
Efficiency ratio	70 %	ó	56 %		66 %	, D	58 %	
Average loans by reporting unit (in billions of dollars)								
Services	\$ 80	\$	85	(6)%	\$ 80	\$	82	(2)%
Banking	185		199	(7)	188		197	(5)
Markets	13		13	_	13		14	(7)
Total	\$ 278	\$	297	(6)%	\$ 281	\$	293	(4)%
Average deposits by reporting unit (in billions of dollars)								
TTS	\$ 688	\$	672	2 %	\$ 696	\$	671	4 %
Securities services	125		137	(9)	125		136	(8)

Services	\$ 813	\$ 809	— %	\$ 821	\$ 807	2 %
Markets and Banking	24	21	14	24	21	14
Total	\$ 837	\$ 830	1 %	\$ 845	\$ 828	2 %

(1) Investment banking fees are substantially composed of underwriting and advisory revenues. NM Not meaningful

#### ICG Revenue Details

	Second	Qu	arter		Six M		
In millions of dollars	 2023		2022	% Change	2023	2022	% Change
Services							
Net interest income	\$ 2,914	\$	2,354	24 %	\$ 5,753	\$ 4,278	34 %
Non-interest revenue	1,741		1,696	3	3,369	3,237	4
Total Services revenues	\$ 4,655	\$	4,050	15 %	\$ 9,122	\$ 7,515	21 %
Net interest income	\$ 2,425	\$	2,053	18 %	\$ 4,783	\$ 3,729	28 %
Non-interest revenue	1,085		1,003	8	2,138	1,934	11
TTS revenues	\$ 3,510	\$	3,056	15 %	\$ 6,921	\$ 5,663	22 %
Net interest income	\$ 489	\$	301	62 %	\$ 970	\$ 549	77 %
Non-interest revenue	656		693	(5)	1,231	1,303	(6)
Securities services revenues	\$ 1,145	\$	994	15 %	\$ 2,201	\$ 1,852	19 %
Markets							
Net interest income	\$ 1,982	\$	1,355	46 %	\$ 3,452	\$ 2,447	41 %
Non-interest revenue	2,637		3,937	(33)	6,768	8,654	(22)
Total Markets revenues <sup>(1)</sup>	\$ 4,619	\$	5,292	(13)%	\$ 10,220	\$ 11,101	(8)%
Fixed income markets	\$ 3,529	\$	4,078	(13)%	\$ 7,983	\$ 8,367	(5)%
Equity markets	1,090		1,214	(10)	2,237	2,734	(18)
Total Markets revenues	\$ 4,619	\$	5,292	(13)%	\$ 10,220	\$ 11,101	(8)%
Rates and currencies	\$ 2,844	\$	3,249	(12)%	\$ 6,484	\$ 6,463	— %
Spread products / other fixed income	685		829	(17)	1,499	1,904	(21)
Total Fixed income markets revenues	\$ 3,529	\$	4,078	(13)%	\$ 7,983	\$ 8,367	(5)%
Banking							
Net interest income	\$ 727	\$	811	(10)%	\$ 1,446	\$ 1,579	(8)%
Non-interest revenue	440		1,266	(65)	886	2,384	(63)
Total Banking revenues	\$ 1,167	\$	2,077	(44)%	\$ 2,332	\$ 3,963	(41)%
Investment banking							
Advisory	\$ 162	\$	357	(55)%	\$ 451	\$ 704	(36)%
Equity underwriting	162		177	(8)	271	362	(25)
Debt underwriting	288		271	6	664	767	(13)
Total Investment banking revenues	\$ 612	\$	805	(24)%	\$ 1,386	\$ 1,833	(24)%
Corporate lending (excluding gains (losses) on loan hedges) <sup>(2)</sup>	\$ 621	\$	778	(20)%	\$ 1,211	\$ 1,467	(17)%
Total Banking revenues (excluding gains (losses) on loan hedges) <sup>(2)</sup>	\$ 1,233	\$	1,583	(22)%	\$ 2,597	\$ 3,300	(21)%
Gain (loss) on loan hedges <sup>(2)</sup>	(66)		494	NM	(265)	663	NM
Total Banking revenues (including gains (losses) on loan hedges) <sup>(2)</sup>	\$ 1,167	\$	2,077	(44)%	\$ 2,332	\$ 3,963	(41)%
Total ICG revenues, net of interest expense	\$ 10,441	\$	11,419	(9)%	\$ 21,674	\$ 22,579	(4)%

(1) Citi assesses its Markets business performance on a total revenue basis, as offsets may occur across revenue line items. For example, securities that generate Net interest income may be risk managed with derivatives that are recorded in Principal transactions revenue within Non-interest revenue. For a description of the composition of these revenue line items, see Notes 4, 5 and 6.

(2) Credit derivatives are used to economically hedge a portion of the corporate loan portfolio that includes both accrual loans and loans at fair value. Gain (loss) on loan hedges include the mark-to-market on the credit derivatives and the mark-to-market on the loans in the portfolio that are at fair value. The fixed premium

costs of these hedges are netted against the corporate lending revenues to reflect the cost of credit protection. Citigroup's results of operations excluding the impact of gain (loss) on loan hedges are non-GAAP financial measures. NM Not meaningful

The discussion of the results of operations for ICG below excludes (where noted) the impact of any gain (loss) on hedges of accrual loans, which are non-GAAP financial measures. For a reconciliation of these metrics to the reported results, see the table above.

#### 2Q23 vs. 2Q22

*Net income* of \$2.2 billion decreased 45%, primarily driven by lower revenues, higher expenses and higher cost of credit.

*Revenues* decreased 9% (including gain (loss) on loan hedges), driven by lower Banking and Markets revenues, partially offset by higher Services revenues. Banking revenues were down 44% (including the impact of the gain (loss) on loan hedges), reflecting lower revenues in both Investment banking and Corporate lending. Markets revenues were down 13%, driven by lower revenues in both Fixed income markets and Equity markets, due to lower client activity, driven by decreased volatility and a strong prior-year comparison. Services revenues were up 15%, driven by higher revenues in both TTS and Securities services.

Citi expects that revenues in its Markets and Investment banking businesses will continue to reflect the overall market environment during the remainder of 2023.

#### Within Services:

TTS revenues increased 15%, driven by 18% growth in net interest income and 8% growth in non-interest revenue, reflecting strong growth across all client segments. The increase in net interest income was primarily driven by higher interest rates as well as growth in deposits, partially offset by higher interest rates paid on deposits. Average deposits increased 2%, largely driven by growth in EMEA and Latin America. Average loans decreased 6%, reflecting business actions taken to reduce RWA. The increase in non-interest revenue was primarily driven by strong fee growth in the cash business, reflecting solid client engagement and continued growth of underlying drivers, reflecting higher cross-border flows (up 11%) and commercial card spend (up 15%). Securities services revenues increased 15%, as net interest income grew 63%, driven by higher interest rates across currencies and cost of funds management, partially offset by the impact of an 8% decline in average deposits. Noninterest revenues decreased 5%, primarily driven by custody fee spread compression, partially offset by higher assets under custody and administration and continued elevated levels of corporate activity in Issuer services.

#### Within Markets:

Fixed income markets revenues decreased 13%, driven by North America, EMEA and Asia, largely due to decreased institutional and corporate client activity.

Rates and currencies decreased 12%, largely due to a decline in the currencies business, driven by EMEA, primarily reflecting lower volatility and a strong prioryear comparison, partially offset by a modest increase in the rates business. Spread products and other fixed income revenues decreased 17%, due to a decline across regions in commodities, driven by lower corporate and institutional client activity, as well as a decline in the financing and securitization business, as the business further reduced its subscription credit facilities portfolio.

• Equity markets revenues decreased 10%, driven by North America and Asia. The decline primarily reflected lower equity derivatives revenues, driven by a more challenging macroeconomic environment, lower volatility and a strong prior-year comparison. The decline in equity derivatives revenues was partially offset by an increase in equity cash, reflecting a modest increase in institutional client activity. Prime finance revenues were largely unchanged, while prime finance balances continued to grow in the quarter.

#### Within Banking:

- Investment banking revenues declined 24%, reflecting a decline in the overall market wallet, as ongoing macroeconomic and geopolitical uncertainty continued to adversely impact client activity. Advisory revenues decreased 55%, reflecting a decline in North America and Asia, partially offset by growth in EMEA. The decrease in advisory revenues was driven by the lower market wallet as well as lower wallet share. Equity underwriting revenues decreased 8%, reflecting a decline in North America, Asia and EMEA, driven by lower wallet share, partially offset by growth in the market wallet. Debt underwriting revenues increased 6%, reflecting growth in North America and EMEA, driven by wallet share gains, largely in the investment-grade portfolio, partially offset by the decline in the market wallet.
- Corporate lending revenues decreased 56%, including the impact of gains (losses) on loan hedges. Excluding the impact of gains (losses) on loan hedges, revenues decreased 20%, primarily driven by the impacts of foreign currency translation and lower lending volumes.

*Expenses* increased 13%, primarily driven by continued investment in TTS, risk and controls investments and severance costs in Markets and Investment banking, partially offset by productivity savings.

*Provisions* reflected a cost of \$58 million, compared to a benefit of \$202 million in the prior-year period, largely driven by an ACL build for other assets and higher net credit losses. Net credit losses were \$73 million, compared to \$18 million in the prior-year period.

The ACL release was \$15 million, compared to a release of \$220 million in the prior-year period. The \$15 million ACL release was driven by a net ACL release for loans and unfunded lending commitments of \$238 million, primarily due to an improved macroeconomic outlook, partially offset by a \$223 million build for other assets, primarily related to an increase in transfer risk associated with exposures outside the U.S. driven by safety and soundness considerations under U.S. banking law. For additional information on Citi's ACL, see "Significant Accounting Policies and Significant Estimates" below.

For additional information on *ICG*'s corporate credit portfolio, see "Managing Global Risk—Credit Risk— Corporate Credit" below.

For additional information on trends in *ICG*'s deposits and loans, see "Managing Global Risk—Liquidity Risk—Loans" and "—Deposits" below.

For additional information about trends, uncertainties and risks related to *ICG*'s future results, see "Executive Summary" above, "Managing Global Risk—Other Risks—Country Risk —Argentina" and "—Russia" and "Forward-Looking Statements" below and "Risk Factors" in Citi's 2022 Form 10-K.

#### 2Q23 YTD vs. 2Q22 YTD

*Net income* of \$5.4 billion decreased 17%, primarily driven by lower revenues and higher expenses, partially offset by lower cost of credit.

*Revenues* decreased 4% (including gain (loss) on loan hedges), driven by lower Banking and Markets revenues, partially offset by higher Services revenues. Banking revenues were down 41% (including the impact of the gain (loss) on loan hedges), reflecting lower revenues in both Investment banking and Corporate lending. Markets revenues were down 8%, driven by lower revenues in both Equity markets and Fixed income markets, also reflecting lower client activity, driven by decreased volatility and a strong prior-year comparison. Services revenues were up 21%, driven by higher revenues in both TTS and Securities services.

#### Within Services:

- TTS revenues increased 22%, with growth in net interest income of 28% and non-interest revenue of 11%, driven by the same factors described above.
- Securities services revenues increased 19%, reflecting higher net interest income, driven by the same factors described above. Non-interest revenue declined 6%, as a decrease in revenues in the custody business was partially offset by an increase in Issuer services.

#### Within Markets:

- Fixed income markets revenues decreased 5%, primarily due to EMEA, reflecting a decline in spread products and other fixed income, driven by the same factors described above, as rates and currencies revenues were largely unchanged.
- Equity markets revenues decreased 18%, primarily due to a decline in equity derivatives, driven by the same factors as described above, as well as a modest decline in equity cash. Prime finance balances continued to grow year to date.

Within Banking:

- Investment banking revenues decreased 24%. Advisory revenues decreased 36% and equity underwriting revenues decreased 25%, driven by the same factors described above. Debt underwriting revenues decreased 13%, largely driven by the lower market wallet.
- Corporate lending revenues decreased 56%, including the impact of gains (losses) on loan hedges. Excluding the impact of gains (losses) on loan hedges, revenues decreased 17%, driven by the same factors described above.

*Expenses* increased 8%, primarily driven by continued investment in Citi's transformation, investments in TTS, other risk and controls investments, volume-related expenses and other structural expenses, including severance costs, partially offset by productivity savings and foreign exchange translation.

*Provisions* reflected a benefit of \$14 million, compared to a cost of \$769 million in the prior-year period, largely driven by a net ACL release for loans and unfunded lending commitments, compared to an ACL build in the prior-year period. Net credit losses were \$95 million, compared to \$48 million in the prior-year period.

The ACL release was \$109 million, compared to a build of \$721 million in the prior-year period, driven by a net ACL release for loans and unfunded lending commitments of \$483 million, due to an improved macroeconomic outlook and Russia loan reductions, partially offset by a \$374 million build for other assets, primarily related to an increase in transfer risk associated with exposures outside the U.S. driven by safety and soundness considerations under U.S. banking law.

## PERSONAL BANKING AND WEALTH MANAGEMENT

*Personal Banking and Wealth Management (PBWM)* consists of U.S. Personal Banking and Global Wealth Management (Global Wealth). U.S. Personal Banking includes Branded cards and Retail services, which have proprietary card portfolios (Cash, Rewards and Value) and co-branded cards (including Costco and American Airlines) within Branded cards, and co-brand and private label relationships within Retail services (including, among others, The Home Depot, Best Buy, Sears and Macy's). U.S. Personal Banking also includes Retail banking, which provides traditional banking services to retail and small business customers. Global Wealth includes Private bank, Wealth at Work and Citigold and provides financial services to clients from affluent to ultra-high-net-worth through banking, lending, mortgages, investment, custody and trust product offerings in 20 countries, including the U.S., Mexico and four wealth management centers: Singapore, Hong Kong, the UAE and London.

At June 30, 2023, U.S. Personal Banking had 653 retail bank branches concentrated in the six key metropolitan areas of New York, Chicago, Los Angeles, San Francisco, Miami and Washington, D.C. U.S. Personal Banking had \$153 billion in outstanding credit card balances, \$112 billion in deposits, \$38 billion in mortgages and \$4 billion in personal and small business loans. Global Wealth had \$315 billion in deposits, \$87 billion in mortgage loans, \$59 billion in personal and small business loans and \$5 billion in outstanding credit card balances.

	 Secon	d Qu	arter		-			
In millions of dollars, except as otherwise noted	2023		2022	% Change	2023		2022	% Change
Net interest income	\$ 5,963	\$	5,569	7 %	\$ 11,897	\$	10,954	9 %
Non-interest revenue	432		460	(6)	946		980	(3)
Total revenues, net of interest expense	\$ 6,395	\$	6,029	6 %	\$ 12,843	\$	11,934	8 %
Total operating expenses	\$ 4,204	\$	3,985	5 %	\$ 8,458	\$	7,874	7 %
Net credit losses on loans	\$ 1,241	\$	699	78 %	\$ 2,335	\$	1,390	68 %
Credit reserve build (release) for loans	333		638	(48)	840		(424)	NM
Provision (release) for credit losses on unfunded lending commitments	2		13	(85)	(4)	)	11	NM
Provisions for benefits and claims (PBC), and other assets	3		5	(40)	(1)	)	2	NM
Provisions (releases) for credit losses and PBC	\$ 1,579	\$	1,355	17 %	\$ 3,170	\$	979	NM
Income from continuing operations before taxes	\$ 612	\$	689	(11)%	\$ 1,215	\$	3,081	(61)%
Income taxes	118		136	(13)	232		668	(65)
Income from continuing operations	\$ 494	\$	553	(11)%	\$ 983	\$	2,413	(59)%
Noncontrolling interests	_			—	_		_	—
Net income	\$ 494	\$	553	(11)%	\$ 983	\$	2,413	(59)%
Balance Sheet data (in billions of dollars)								
EOP assets	\$ 473	\$	479	(1)%				
Average assets	484		474	2	\$ 490	\$	474	3 %
Average loans	339		317	7	336		315	7
Average deposits	431		435	(1)	433		441	(2)
Efficiency ratio	66 %	%	66 %		66	%	66 %	
Net credit losses as a percentage of average loans	1.47		0.88		1.40		0.89	
Revenue by reporting unit and component								
Branded cards	\$ 2,352	\$	2,168	8 %	\$ 4,818	\$	4,258	13 %
Retail services	1,646		1,300	27	3,259		2,599	25
Retail banking	594		656	(9)	1,207		1,251	(4)
U.S. Personal Banking	\$ 4,592	\$	4,124	11 %	\$ 9,284	\$	8,108	15 %
Private bank	\$ 605	\$	745	(19)%	\$ 1,172	\$	1,524	(23)%
Wealth at Work	224		170	32	417		353	18
Citigold	974		990	(2)	1,970		1,949	1
Global Wealth	\$ 1,803	\$	1,905	(5)%	\$ 3,559	\$	3,826	(7)%
Total	\$ 6,395	\$	6,029	6 %	\$ 12,843	\$	11,934	8 %

NM Not meaningful

#### 2Q23 vs. 2Q22

*Net income* was \$494 million, compared to \$553 million in the prior-year period, driven by higher cost of credit and higher expenses, partially offset by higher revenues.

*Revenues* increased 6%, primarily due to higher net interest income, driven by strong loan growth across U.S. Personal Banking. The increase was partially offset by lower non-interest revenue, primarily reflecting lower investment product revenues in Global Wealth.

U.S. Personal Banking revenues increased 11%, reflecting higher revenues in cards, partially offset by lower revenues in Retail banking.

Cards revenues increased 15%. Branded cards revenues increased 8%, primarily driven by higher net interest income, reflecting strength in underlying drivers. Branded cards new account acquisitions increased 6% and card spend volumes increased 4%. Average loans increased 14%, reflecting the higher card spend volumes and lower payment rates.

Retail services revenues increased 27%, primarily driven by higher net interest income on higher loan balances and lower partner payments. Retail services card spend volumes decreased 5%, primarily driven by lower discretionary retail spend. Average loans increased 9%, reflecting lower payment rates, partially offset by the lower card spend volumes.

Retail banking revenues decreased 9%, primarily driven by the impact of the transfer of certain relationships and the associated deposit balances to Global Wealth. Average loans increased 17%, primarily driven by higher mortgage originations. Average deposits decreased 3%, largely reflecting the transfer of certain relationships and the associated deposit balances to Global Wealth.

Global Wealth revenues decreased 5%, largely reflecting investment product revenue headwinds and lower net interest income, partially offset by the benefits of the transfer of certain relationships and the associated deposit balances from Retail banking. Average deposits and average loans were largely unchanged. Client assets increased 5%, primarily driven by increases in market valuations. Client advisors decreased 1%, reflecting the re-pacing of strategic hiring. Private bank revenues decreased 19%, driven by the investment product revenue headwinds and higher interest rates paid on deposits. Wealth at Work revenues increased 32%, driven by strong lending results, primarily in mortgages, and Citigold revenues decreased 2%, driven by the lower net interest income and the lower investment product revenue.

*Expenses* increased 5%, largely driven by risk and controls investments, partially offset by productivity savings.

*Provisions* were \$1.6 billion, compared to \$1.4 billion in the prior-year period, largely driven by higher net credit losses, partially offset by a lower net ACL build for loans. Net credit losses increased 78%, reflecting ongoing normalization in U.S. cards from near historically low levels, with Branded cards net credit losses up 87% to \$614 million and Retail services net credit losses up 88% to \$545 million. Both Branded cards and Retail services net credit losses are expected to normalize by the end of 2023. The net ACL build was \$0.3 billion, compared to \$0.7 billion in the prior-year period, primarily reflecting growth in U.S. cards balances. For additional information on Citi's ACL, see "Significant Accounting Policies and Significant Estimates" below.

For additional information on U.S. Personal Banking's Branded cards, Retail services and Retail banking portfolios, see "Credit Risk—Consumer Credit" below.

For additional information about trends, uncertainties and risks related to *PBWM*'s future results, see "Executive Summary" above and "Forward-Looking Statements" below, and "Risk Factors—Strategic Risks" in Citi's 2022 Form 10-K.

#### 2Q23 YTD vs. 2Q22 YTD

Year-to-date, *PBWM* experienced similar trends to those described above. Net income was \$983 million, compared to \$2.4 billion in the prior-year period, largely driven by higher cost of credit and higher expenses, partially offset by higher revenues.

*Revenues* increased 8%, largely due to higher revenues in U.S. Personal Banking. U.S. Personal Banking revenues increased 15%, reflecting higher revenues in cards, largely driven by the same factors described above. Global Wealth revenues decreased 7%, largely driven by the same factors described above.

*Expenses* increased 7%, primarily driven by continued investments in Citi's transformation, other risk and controls investments and severance costs, partially offset by productivity savings.

*Provisions* were \$3.2 billion, compared to \$1.0 billion in the prior-year period, due to a net ACL build for loans, as well as higher net credit losses, primarily driven by ongoing normalization in U.S. cards.

The net ACL build was \$0.8 billion, primarily driven by U.S. cards loan growth, compared to a release of \$0.4 billion in the prior-year period.

### LEGACY FRANCHISES

As of June 30, 2023, *Legacy Franchises* included (i) Asia Consumer Banking (Asia Consumer), representing the consumer banking operations of the remaining six Asia and EMEA exit countries, (ii) Mexico Consumer Banking (Mexico Consumer) and Mexico Small Business and Middle-Market Banking (Mexico SBMM), collectively Mexico Consumer/SBMM, and (iii) Legacy Holdings Assets (certain North America consumer mortgage loans and other legacy assets). Asia Consumer provides traditional retail banking and branded card products to retail and small business customers. Mexico Consumer/SBMM provides traditional retail banking and branded card products to consumers and small business customers and traditional middle-market banking products and services to commercial customers through Citibanamex.

*Legacy Franchises* also included the following seven consumer banking businesses prior to their sale: Australia, until its closing on June 1, 2022; the Philippines, until its closing on August 1, 2022; Thailand and Malaysia, until their closings on November 1, 2022; Bahrain, until its closing on December 1, 2022; and India and Vietnam, until their closings on March 1, 2023.

In addition, Citi has entered into agreements to sell its consumer banking businesses in Indonesia and Taiwan, and has continued to make progress on its wind-downs of consumer banking operations in Korea and China and consumer banking and local commercial banking operations in Russia (see below). See Note 2 for additional information on *Legacy Franchises*' consumer banking business sales and wind-downs.

In May 2023, Citi announced it intends to pursue an IPO of consumer, small business and middle-market banking operations in Mexico. Citi will retain its *ICG* and Private bank businesses in Mexico. Citi currently expects that the separation of the businesses will be completed in the second half of 2024 and that the IPO will take place in 2025.

In connection with Citi's wind-down of its consumer and local commercial banking businesses in Russia, Citi expects to incur approximately \$140 million in total estimated charges (excluding the impact from any portfolio sales) related to *Legacy Franchises*. Citi's previously disclosed referral agreement with a Russian bank to settle a portfolio of ruble-denominated credit card loans, subject to customer consents, was signed in May 2023. The outstanding card loan balances with Citi (\$131 million as of June 30, 2023) are to be settled upon referral and refinancing, and the portfolio has not been designated as held-for-sale (HFS). For additional information about Citi's continued efforts to reduce its operations and exposures in Russia, see *"Institutional Clients Group"* above and "Managing Global Risk—Other Risks—Country Risk—Russia" below, as well as "Risk Factors" in Citi's 2022 Form 10-K.

At June 30, 2023, on a combined basis, *Legacy Franchises* had 1,413 retail branches, \$21 billion in retail banking loans and \$53 billion in deposits. In addition, the businesses had \$9 billion in outstanding card loan balances, and Mexico SBMM had \$8 billion in outstanding corporate loan balances. These loan and deposit amounts exclude approximately \$8 billion of loans (\$7 billion of retail banking loans and \$11 billion of credit card loan balances) and approximately \$11 billion of deposits, all of which were reclassified to HFS (e.g., as *Other assets* and *Other liabilities* on the Consolidated Balance Sheet) as a result of Citi's entry into agreements to sell certain remaining consumer banking businesses. See Note 2 for additional information.

	Second Quarter				Six I			
In millions of dollars, except as otherwise noted		2023		2022	% Change	2023	2022	% Change
Net interest income	\$	1,345	\$	1,474	(9)%	\$ 2,635	\$ 2,982	(12)%
Non-interest revenue		578		461	25	2,140	 884	NM
Total revenues, net of interest expense	\$	1,923	\$	1,935	(1)%	\$ 4,775	\$ 3,866	24 %
Total operating expenses	\$	1,778	\$	1,814	(2)%	\$ 3,530	\$ 4,107	(14)%
Net credit losses on loans	\$	190	\$	133	43 %	\$ 376	\$ 284	32 %
Credit reserve build (release) for loans		74		(28)	NM	77	(174)	NM
Provision (release) for credit losses on unfunded lending commitments		(10)		(3)	NM	(28)	121	NM
Provisions for benefits and claims (PBC), HTM debt securities and other assets		46		19	NM	220	50	NM
Provisions (releases) for credit losses and PBC	\$	300	\$	121	NM	\$ 645	\$ 281	NM
Income (loss) from continuing operations before taxes	\$	(155)	\$	_	<u>          %</u>	\$ 600	\$ (522)	NM
Income taxes		(33)		15	NM	116	(122)	NM
Income (loss) from continuing operations	\$	(122)	\$	(15)	NM	\$ 484	\$ (400)	NM
Noncontrolling interests		3		2	50 %	5		<u>         %</u>
Net income (loss)	\$	(125)	\$	(17)	NM	\$ 479	\$ (400)	NM
Balance Sheet data (in billions of dollars)								
EOP assets	\$	92	\$	108	(15)%			
Average assets		92		115	(20)	\$ 95	\$ 120	(21)%
EOP loans		38		41	(7)			
EOP deposits		53		53	1			

Efficiency ratio	92 %	6	94 %		74 %	6	106 %	
Revenue by reporting unit and component								
Asia Consumer	\$ 454	\$	880	(48)%	\$ 1,963	\$	1,667	18 %
Mexico Consumer/SBMM	1,449		1,184	22	2,771		2,323	19
Legacy Holdings Assets	20		(129)	NM	41		(124)	NM
Total	\$ 1,923	\$	1,935	(1)%	\$ 4,775	\$	3,866	24 %

NM Not meaningful

#### 2Q23 vs. 2Q22

*Net loss* was \$125 million, compared to a net loss of \$17 million in the prior-year period, driven by higher cost of credit, partially offset by lower expenses.

Results for the second quarter of 2023 included divestiture-related impacts of \$(73) million in earnings before taxes (\$(52) million after-tax), reflecting the following:

- \$(6) million of aggregate divestiture-related revenue impacts
- \$79 million of aggregate divestiture-related expenses, largely relating to separation costs in Mexico and severance costs in the Asia exit markets
- \$(12) million benefit of divestiture-related credit costs
- \$(21) million of related tax benefits

Results for the second quarter of 2022 included divestiture-related impacts of \$48 million (\$35 million aftertax), reflecting the following:

- \$78 million of aggregate divestiture-related revenue impacts, including a \$20 million reduction of the loss on sale for the Australia consumer business
- \$(28) million benefit recorded in expenses related to the Korea Voluntary Early Retirement Program (VERP) pension settlement
- \$58 million of divestiture-related credit costs
- \$13 million of related taxes

*Revenues* decreased 1%, driven by lower revenues in Asia Consumer, partially offset by higher revenues in Mexico Consumer/SBMM and Legacy Holdings Assets.

Asia Consumer revenues of \$454 million decreased from \$880 million in the prior-year period, mainly driven by the reduction from exited markets and continued wind-downs.

Mexico Consumer/SBMM revenues increased 22%, as cards revenues increased 38%, SBMM revenues increased 25% and retail banking revenues increased 16%, primarily due to higher interest rates and higher lending volumes.

Legacy Holdings Assets revenues of \$20 million increased from \$(129) million in the prior-year period, largely driven by a release of a CTA loss (net of hedges) recorded in *AOCI* in the second quarter of 2022.

*Expenses* decreased 2%, mainly driven by the impact of the exited markets and continued wind-downs.

*Provisions* were \$300 million, compared to \$121 million in the prior-year period, primarily driven by higher net credit losses and a net ACL build. Net credit losses increased 43% to \$190 million, driven by higher lending volumes in Mexico Consumer. The build for credit losses was \$110 million, compared to a release of \$12 million in the prior-year period, primarily due to higher lending volumes in Mexico Consumer.

For additional information about trends, uncertainties and risks related to *Legacy Franchises*' future results, see "Executive Summary" above, "Managing Global Risk—Other Risks—Country Risk—Russia" and "Forward-Looking Statements" below and "Risk Factors—Strategic Risks" in Citi's 2022 Form 10-K.

#### 2Q23 YTD vs. 2Q22 YTD

*Net income* was \$479 million, compared to a net loss of \$400 million in the prior-year period, driven by higher revenues and lower expenses, partially offset by higher cost of credit.

Results for year-to-date 2023 included divestiture-related impacts of approximately \$880 million (approximately \$596 million after-tax), reflecting the following:

- \$1,012 million of net divestiture gains, primarily related to a gain on sale of the India consumer banking business, recorded in other revenue
- \$152 million of aggregate divestiture-related expenses
- \$(20) million benefit of divestiture-related credit costs
- \$284 million of related taxes

Results for year-to-date 2022 included divestiture-related impacts of approximately \$(629) million (approximately \$(553) million after-tax), primarily reflecting the following:

- \$(98) million pretax loss primarily reflecting an ACL release of \$(104) million related to the Australia consumer banking business sale
- \$129 million cost of credit reclassification to revenues, as once a divestiture is classified as held-for-sale, credit costs, including ACL builds/releases and net credit losses, are reclassified to revenues
- \$535 million goodwill impairment, recorded in expenses, due to the re-segmentation and sequencing of divestitures
- \$(76) million of related tax benefits

*Revenues* increased 24%, driven by higher revenues in Asia Consumer, Mexico Consumer/SBMM and Legacy Holdings Assets.

Asia Consumer revenues increased 18%, primarily driven by the India gain on sale, partially offset by the reduction from exited markets and wind-downs. Mexico Consumer/SBMM revenues increased 19%, mainly due to the benefit of FX translation as well as higher interest rates and higher lending volumes. Legacy Holdings Assets revenues of \$41 million increased from \$(124) million in the prior-year period, primarily driven by the release of the CTA loss (net of hedges) recorded in *AOCI* in the second quarter of 2022. *Expenses* decreased 14%, mainly driven by the absence of the goodwill impairment in the prior-year period and the benefit of the closed exit markets and wind-downs.

*Provisions* were \$645 million, compared to \$281 million in the prior-year period, driven by higher lending volumes and net credit losses in Mexico Consumer, and a build for transfer risk associated with exposures outside the U.S., driven by safety and soundness considerations under U.S. banking law.

## **CORPORATE/OTHER**

Activities not assigned to the operating segments (*ICG*, *PBWM* and *Legacy Franchises*) are included in *Corporate/Other*. *Corporate/Other* included certain unallocated costs of global staff functions (including finance, risk, human resources, legal and compliance-related costs), other corporate expenses and unallocated global operations and technology expenses and income taxes, as well as results of Corporate Treasury investment activities and discontinued operations. At June 30, 2023, *Corporate/Other* had \$94 billion in assets, including Corporate Treasury investment securities and the Company's deferred tax assets (DTAs).

	Second Quarter				Six Months				
In millions of dollars		2023	2022	% Change		2023		2022	% Change
Net interest income	\$	969 \$	401	NM	\$	2,065	\$	595	NM
Non-interest revenue		(292)	(146)	(100)%		(474)		(150)	NM
Total revenues, net of interest expense	\$	677 \$	255	NM	\$	1,591	\$	445	NM
Total operating expenses	\$	302 \$	160	89 %	\$	612	\$	420	46 %
Provisions for HTM debt securities and other assets	\$	(113) \$	_	<u>          %</u>	\$	(2)	\$	_	<u> </u>
Income (loss) from continuing operations before taxes	\$	<b>488</b> \$	95	NM	\$	981	\$	25	NM
Income taxes (benefits)		127	(178)	NM		361		(440)	NM
Income from continuing operations	\$	361 \$	273	32 %	\$	620	\$	465	33 %
Income (loss) from discontinued operations, net of taxes		(1)	(221)	100		(2)		(223)	99
Net income before attribution to noncontrolling									
interests	\$	360 \$	52	NM	\$	618	\$	242	NM
Noncontrolling interests		4	2	NM		7		3	NM
Net income	\$	356 \$	50	NM	\$	611	\$	239	NM

NM Not meaningful

#### 2Q23 vs. 2Q22

*Net income* was \$356 million, compared to \$50 million in the prior-year period. The increase in net income was primarily driven by higher revenues, benefits from cost of credit and the prior-year release of a CTA loss (net of hedges) from *AOCI* (for additional information, see Note 2). These increases were partially offset by higher expenses and lower income tax benefits. Results for the quarter also included a \$40 million withholding tax related to an exit market, which is a divestiture-related impact.

*Revenues* were \$677 million, compared to \$255 million in the prior-year period, primarily driven by higher net interest income from *Deposits with banks* and the investment portfolio, largely due to higher interest rates.

*Expenses* were \$302 million, compared to \$160 million in the prior-year period, primarily reflecting the impact of inflation, higher severance costs and the absence of certain settlements that occurred in the prior-year period, partially offset by lower consulting expenses.

*Provisions* were a \$113 million benefit, primarily driven by a reserve release related to the repayment of the First Republic Bank deposit.

For additional information about trends, uncertainties and risks related to *Corporate/Other*'s future results, see "Executive Summary" above, "Forward-Looking Statements" below and "Risk Factors—Strategic Risks" in Citi's 2022 Form 10-K.

#### 2Q23 YTD vs. 2Q22 YTD

Year-to-date, *Corporate/Other* experienced similar trends to those described above. *Net income* was \$611 million, compared to net income of \$239 million in the prior-year period, largely driven by the same factors described above.

*Revenues* were \$1.6 billion, compared to \$445 million in the prior-year period, driven by the same factors described above.

*Expenses* were \$612 million, compared to \$420 million in the prior-year period, driven by the same factors described above.

*Provisions* were a \$2 million benefit, as the reserve build for the First Republic Bank deposit in the first quarter of 2023 was released in the second quarter of 2023.

### **CAPITAL RESOURCES**

For additional information about capital resources, including Citi's capital management, regulatory capital buffers, the stress testing component of capital planning and current regulatory capital standards and developments, see "Capital Resources" and "Risk Factors" in Citi's 2022 Form 10-K.

During the second quarter of 2023, Citi returned a total of \$2.0 billion of capital to common shareholders in the form of \$1.0 billion in dividends and \$1.0 billion in share repurchases totaling approximately 21 million common shares. For additional information, see "Unregistered Sales of Equity Securities, Repurchases of Equity Securities and Dividends" below.

Citi paid common dividends of \$0.51 per share for the second quarter of 2023, and on July 20, 2023, declared common dividends of \$0.53 per share for the third quarter of 2023. Citi intends to maintain a quarterly common dividend of at least \$0.53 per share, subject to financial and macroeconomic conditions as well as its Board of Directors' approval. In addition, as previously announced, Citi will continue to assess common share repurchases on a quarter-byquarter basis given uncertainty regarding regulatory capital requirements. For additional information, see "Capital Resources—Regulatory Capital Standards and Developments" below.

#### **Common Equity Tier 1 Capital Ratio**

Citi's Common Equity Tier 1 (CET1) Capital ratio under the Basel III Standardized Approach was 13.4% as of June 30, 2023, largely unchanged from March 31, 2023, relative to a required regulatory CET1 Capital ratio of 12.0% as of such dates under the Standardized Approach. This compares to a CET1 Capital ratio of 13.0% as of December 31, 2022, relative to a required regulatory CET1 Capital ratio of 11.5% as of such date under the Standardized Approach.

Citi's CET1 Capital ratio under the Basel III Advanced Approaches was 12.5% as of June 30, 2023, compared to 12.3% as of March 31, 2023, relative to a required regulatory CET1 Capital ratio of 10.5% as of such dates under the Advanced Approaches framework. This compares to a CET1 Capital ratio of 12.2% as of December 31, 2022, relative to a required regulatory CET1 Capital ratio of 10.0% as of such date under the Advanced Approaches.

Citi's CET1 Capital ratio under the Standardized Approach remained largely unchanged from March 31, 2023, as the return of capital to common shareholders and an increase in RWA were offset by net income. Citi's CET1 Capital ratio increased under the Advanced Approaches from March 31, 2023, driven primarily by net income and a decrease in RWA, partially offset by the return of capital to common shareholders.

Citi's CET1 Capital ratio increased under both the Standardized Approach and Advanced Approaches from yearend 2022, driven primarily by year-to-date net income of \$7.5 billion, partially offset by the return of capital to common shareholders and an increase in RWA.

#### **Stress Capital Buffer**

In July 2023, the FRB confirmed Citi's Stress Capital Buffer (SCB) requirement of 4.3%, as compared to the current requirement of 4.0%, for the four-quarter window starting from October 1, 2023 to September 30, 2024.

Accordingly, effective October 1, 2023, Citi will be required to maintain a 12.3% CET1 Capital ratio under the Standardized Approach, incorporating the 4.3% SCB and its current GSIB surcharge of 3.5%. Citi's required regulatory CET1 Capital ratio under the Advanced Approaches (using the fixed 2.5% Capital Conservation Buffer) will remain unchanged at 10.5%. The SCB applies to Citigroup only; the regulatory capital framework applicable to Citibank, including the Capital Conservation Buffer, is unaffected by Citigroup's SCB.

For additional information regarding regulatory capital buffers, including the SCB and GSIB surcharge, see "Capital Resources—Regulatory Capital Buffers" in Citi's 2022 Form 10-K.

#### **Citigroup's Capital Resources**

The following table presents Citi's required risk-based capital ratios as of June 30, 2023, March 31, 2023 and December 31, 2022:

	Ad	vanced Approa	ches	<b>Standardized Approach</b>					
	June 30, 2023	March 31, December 31, 2023 2022		June 30, 2023	March 31, 2023	December 31, 2022			
CET1 Capital ratio <sup>(1)</sup>	10.5 %	10.5 %	10.0 %	12.0 %	12.0 %	11.5 %			
Tier 1 Capital ratio <sup>(1)</sup>	12.0	12.0	11.5	13.5	13.5	13.0			
Total Capital ratio <sup>(1)</sup>	14.0	14.0	13.5	15.5	15.5	15.0			

(1) As of January 1, 2023, Citi's required risk-based capital ratios included the 4.0% SCB and 3.5% GSIB surcharge under the Standardized Approach, and the 2.5% Capital Conservation Buffer and 3.5% GSIB surcharge under the Advanced Approaches (all of which must be composed of CET1 Capital). These requirements are applicable through September 30, 2023. See "Stress Capital Buffer" above for more information.

The following tables present Citi's capital components and ratios as of June 30, 2023, March 31, 2023 and December 31, 2022:

		Advanced Approaches						Standardized Approach						
In millions of dollars, except ratios	June 30, 2023	N	March 31, 2023	D	December 31, 2022	June 30, 2023	March 31, 2023		Ľ	December 31, 2022				
CET1 Capital <sup>(1)</sup>	\$ 154,243	\$	153,753	\$	148,930	\$ 154,243	\$	153,753	\$	148,930				
Tier 1 Capital <sup>(1)</sup>	175,743		175,249		169,145	175,743		175,249		169,145				
Total Capital (Tier 1 Capital + Tier 2 Capital) <sup>(1)</sup>	198,036		194,998		188,839	206,852		203,586		197,543				
Total Risk-Weighted Assets	1,234,271	-	1,252,390		1,221,538	1,153,450		1,144,359		1,142,985				
Credit Risk <sup>(1)</sup>	\$ 874,707	\$	883,746	\$	851,875	\$ 1,090,440	\$	1,072,110	\$	1,069,992				
Market Risk	62,261		71,341		71,889	63,010		72,249		72,993				
Operational Risk	297,303		297,303		297,774	_				_				
CET1 Capital ratio <sup>(2)</sup>	12.50 %	6	12.28 %	ó	12.19 %	13.37	%	13.44 %	6	13.03 %				
Tier 1 Capital ratio <sup>(2)</sup>	14.24		13.99		13.85	15.24		15.31		14.80				
Total Capital ratio <sup>(2)</sup>	16.04		15.57		15.46	17.93		17.79		17.28				

In millions of dollars, except ratios	Required Capital Ratios	June 30, 2023		March 31, 2023	De	cember 31, 2022
Quarterly Adjusted Average Total Assets <sup>(1)(3)</sup>		\$ 2,429,306	\$	2,426,430	\$	2,395,863
Total Leverage Exposure <sup>(1)(4)</sup>		2,943,546		2,939,744		2,906,773
Leverage ratio	4.0 %	7.23 %	7.23 %		7.22 %	
Supplementary Leverage ratio	5.0	5.97		5.96		5.82

(1) Citi's regulatory capital ratios and components reflect certain deferrals based on the modified regulatory capital transition provision related to the current expected credit losses (CECL) standard. For additional information, see "Capital Resources—Regulatory Capital Treatment—Modified Transition of the Current Expected Credit Losses Methodology" in Citi's 2022 Form 10-K.

(2) Citi's binding CET1 Capital and Tier 1 Capital ratios were derived under the Basel III Standardized Approach, whereas Citi's binding Total Capital ratio was derived under the Basel III Advanced Approaches framework for all periods presented.

(3) Leverage ratio denominator. Represents quarterly average total assets less amounts deducted from Tier 1 Capital.

(4) Supplementary Leverage ratio denominator.

As indicated in the table above, Citigroup's capital ratios at June 30, 2023 were in excess of the regulatory capital requirements under the U.S. Basel III rules. In addition, Citi was "well capitalized" under current federal bank regulatory agencies definitions as of June 30, 2023.

#### Components of Citigroup Capital

In millions of dollars	June 30, 2023	December 31, 2022
CET1 Capital		
Citigroup common stockholders' equity <sup>(1)</sup>	\$ 188,610	\$ 182,325
Add: Qualifying noncontrolling interests	209	128
Regulatory capital adjustments and deductions:		
Add: CECL transition provision <sup>(2)</sup>	1,514	2,271
Less: Accumulated net unrealized gains (losses) on cash flow hedges, net of tax	(1,990)	(2,522)
Less: Cumulative unrealized net gain (loss) related to changes in fair value of financial liabilities attributable to own creditworthiness, net of tax	307	1,441
Less: Intangible assets:		
Goodwill, net of related DTLs <sup>(3)</sup>	18,933	19,007
Identifiable intangible assets other than MSRs, net of related DTLs	3,531	3,411
Less: Defined benefit pension plan net assets; other	2,020	1,935
Less: DTAs arising from net operating loss, foreign tax credit and general business credit carry-forwards <sup>(4)</sup>	11,461	12,197
Less: Excess over 10%/15% limitations for other DTAs, certain common stock investments, and $MSRs^{(4)(5)}$	1,828	325
Total CET1 Capital (Standardized Approach and Advanced Approaches)	\$ 154,243	\$ 148,930
Additional Tier 1 Capital		
Qualifying noncumulative perpetual preferred stock <sup>(1)</sup>	\$ 20,109	\$ 18,864
Qualifying trust preferred securities <sup>(6)</sup>	1,410	1,406
Qualifying noncontrolling interests	30	30
Regulatory capital deductions:		
Less: Other	49	85
Total Additional Tier 1 Capital (Standardized Approach and Advanced Approaches)	\$ 21,500	\$ 20,215
Total Tier 1 Capital (CET1 Capital + Additional Tier 1 Capital) (Standardized Approach and Advanced Approaches)	\$ 175,743	\$ 169,145
Tier 2 Capital		
Qualifying subordinated debt	\$ 17,669	\$ 15,530
Qualifying noncontrolling interests	37	37
Eligible allowance for credit losses <sup>(2)(7)</sup>	13,715	13,426
Regulatory capital deduction:		
Less: Other	312	595
Total Tier 2 Capital (Standardized Approach)	\$ 31,109	\$ 28,398
Total Capital (Tier 1 Capital + Tier 2 Capital) (Standardized Approach)	\$ 206,852	\$ 197,543
Adjustment for excess of eligible credit reserves over expected credit losses <sup>(2)(7)</sup>	\$ (8,816)	\$ (8,704)
Total Tier 2 Capital (Advanced Approaches)	\$ 22,293	\$ 19,694
Total Capital (Tier 1 Capital + Tier 2 Capital) (Advanced Approaches)	\$ 198,036	\$ 188,839

(1) Issuance costs of \$136 million and \$131 million related to outstanding noncumulative perpetual preferred stock at June 30, 2023 and December 31, 2022, respectively, were excluded from common stockholders' equity and netted against such preferred stock in accordance with Federal Reserve Board regulatory reporting requirements, which differ from those under U.S. GAAP.

(2) Citi's regulatory capital ratios and components reflect certain deferrals based on the modified regulatory capital transition provision related to the CECL standard. For additional information, see "Capital Resources—Regulatory Capital Treatment—Modified Transition of the Current Expected Credit Losses Methodology" in Citi's 2022 Form 10-K.

(3) Includes goodwill "embedded" in the valuation of significant common stock investments in unconsolidated financial institutions.

(4) Of Citi's \$28.5 billion of net DTAs at June 30, 2023, \$11.5 billion of net DTAs arising from net operating loss, foreign tax credit and general business credit tax carry-forwards, as well as \$1.8 billion of DTAs arising from temporary differences that exceeded 10%/15% limitations, were excluded from Citi's CET1 Capital as of June 30, 2023. DTAs arising from net operating loss, foreign tax credit and general business credit tax carry-forwards are required to be entirely deducted from CET1 Capital under the U.S. Basel III rules. DTAs arising from temporary differences are required to be deducted from capital only if they exceed 10%/15% limitations under the U.S. Basel III rules.

Footnotes continue on the following page.

- (5) Assets subject to 10%/15% limitations include MSRs, DTAs arising from temporary differences and significant common stock investments in unconsolidated financial institutions. At June 30, 2023 and December 31, 2022, this deduction related only to DTAs arising from temporary differences that exceeded the 10% limitation.
- (6) Represents Citigroup Capital XIII trust preferred securities, which are permanently grandfathered as Tier 1 Capital under the U.S. Basel III rules.
- (7) Under the Standardized Approach, the allowance for credit losses is eligible for inclusion in Tier 2 Capital up to 1.25% of credit risk-weighted assets, with any excess allowance for credit losses being deducted in arriving at credit risk-weighted assets, which differs from the Advanced Approaches framework, in which eligible credit reserves that exceed expected credit losses are eligible for inclusion in Tier 2 Capital to the extent that the excess reserves do not exceed 0.6% of credit risk-weighted assets. The total amount of eligible credit reserves in excess of expected credit losses that were eligible for inclusion in Tier 2 Capital, subject to limitation, under the Advanced Approaches framework were \$4.9 billion and \$4.7 billion at June 30, 2023 and December 31, 2022, respectively.

## Citigroup Capital Rollforward

In millions of dollars	1onths Ended e 30, 2023	Six Months Ended June 30, 2023
CET1 Capital, beginning of period	\$ 153,753	\$ 148,930
Net income	2,915	7,521
Common and preferred dividends declared	(1,292)	(2,569)
Net increase in treasury stock	(985)	(280)
Net increase in common stock and additional paid-in capital	210	126
Net change in CTA net of hedges, net of tax	23	865
Net change in unrealized gains (losses) on debt securities AFS, net of tax	126	962
Net increase in defined benefit plans liability adjustment, net of tax	(136)	(240)
Net change in adjustment related to change in fair value of financial liabilities attributable to own creditworthiness, net of tax	111	189
Net decrease in excluded component of fair value hedges	11	23
Net change in goodwill, net of related DTLs	(89)	74
Net change in identifiable intangible assets other than MSRs, net of related DTLs	76	(120)
Net increase in defined benefit pension plan net assets	(66)	(59)
Net decrease in DTAs arising from net operating loss, foreign tax credit and general business credit carry-forwards	322	736
Net increase in excess over 10%/15% limitations for other DTAs, certain common stock investments and MSRs	(783)	(1,503)
Net decrease in CECL transition provision		(757)
Other	47	345
Net increase in CET1 Capital	\$ 490	\$ 5,313
CET1 Capital, end of period (Standardized Approach and Advanced Approaches)	\$ 154,243	\$ 154,243
Additional Tier 1 Capital, beginning of period	\$ 21,496	
Net increase in qualifying perpetual preferred stock	_	1,245
Net increase in qualifying trust preferred securities	2	4
Other	2	36
Net increase in Additional Tier 1 Capital	\$ 4	\$ 1,285
Tier 1 Capital, end of period		
(Standardized Approach and Advanced Approaches)	\$ 175,743	\$ 175,743
Tier 2 Capital, beginning of period (Standardized Approach)	\$ 28,337	\$ 28,398
Net increase in qualifying subordinated debt	2,489	2,139
Net increase in eligible allowance for credit losses	239	289
Other	44	283
Net increase in Tier 2 Capital (Standardized Approach)	\$ 2,772	
Tier 2 Capital, end of period (Standardized Approach)	\$ 31,109	
Total Capital, end of period (Standardized Approach)	\$ 206,852	\$ 206,852
Tier 2 Capital, beginning of period (Advanced Approaches)	\$ 19,749	\$ 19,694
Net increase in qualifying subordinated debt	2,489	2,139
Net increase in excess of eligible credit reserves over expected credit losses	11	177
Other	44	283
Net increase in Tier 2 Capital (Advanced Approaches)	\$ 2,544	
Tier 2 Capital, end of period (Advanced Approaches)	\$ 22,293	\$ 22,293
Total Capital, end of period (Advanced Approaches)	\$ 198,036	\$ 198,036

#### Citigroup Risk-Weighted Assets Rollforward (Basel III Standardized Approach)

In millions of dollars	ee Months Ended June 30, 2023	Six Months Ended June 30, 2023
Total Risk-Weighted Assets, beginning of period	\$ 1,144,359	\$ 1,142,985
Changes in Credit Risk-Weighted Assets		
General credit risk exposures <sup>(1)</sup>	4,990	(9,362)
Derivatives <sup>(2)</sup>	10,313	11,470
Repo-style transactions <sup>(3)</sup>	1,119	12,044
Securitization exposures	(364)	92
Equity exposures <sup>(4)</sup>	589	2,377
Other exposures <sup>(5)</sup>	1,683	3,827
Net increase in Credit Risk-Weighted Assets	\$ 18,330	\$ 20,448
Changes in Market Risk-Weighted Assets		
Risk levels	\$ (6,795)	\$ (8,876)
Model and methodology updates	(2,444)	(1,107)
Net decrease in Market Risk-Weighted Assets <sup>(6)</sup>	\$ (9,239)	\$ (9,983)
Total Risk-Weighted Assets, end of period	\$ 1,153,450	\$ 1,153,450

(1) General credit risk exposures include cash and balances due from depository institutions, securities, and loans and leases. General credit risk exposures increased during the three months ended June 30, 2023, primarily due to an increase in card activities. General credit risk exposures decreased during the six months ended June 30, 2023, primarily driven by divestitures and non-strategic portfolio exits.

(2) Derivative exposures increased during the three and six months ended June 30, 2023, mainly driven by movements across multiple business areas, notably in rates and currencies.

(3) Repo-style transactions include repurchase and reverse repurchase transactions, as well as securities borrowing and securities lending transactions. Repo-style transactions increased during the three and six months ended June 30, 2023, mainly due to increased activities across multiple business areas.

(4) Equity exposures increased during the three and six months ended June 30, 2023, primarily due to increases in investment market share prices.

(5) Other exposures increased during the three and six months ended June 30, 2023, mainly driven by increases in other assets.

(6) Market risk-weighted assets decreased during the three and six months ended June 30, 2023, primarily due to exposure changes, partially offset by changes in model inputs related to volatility and correlation between market risk factors.

#### Citigroup Risk-Weighted Assets Rollforward (Basel III Advanced Approaches)

In millions of dollars	Months Ended ne 30, 2023	Six Months Ended June 30, 2023
Total Risk-Weighted Assets, beginning of period	\$ 1,252,390 \$	1,221,538
Changes in Credit Risk-Weighted Assets		
General credit risk exposures <sup>(1)</sup>	(4,478)	13,130
Derivatives <sup>(2)</sup>	(8,382)	(3,366)
Repo-style transactions <sup>(3)</sup>	2,201	3,498
Securitization exposures	(1,561)	532
Equity exposures <sup>(4)</sup>	417	2,828
Other exposures <sup>(5)</sup>	2,764	6,210
Net increase in Credit Risk-Weighted Assets	\$ (9,039) \$	22,832
Changes in Market Risk-Weighted Assets		
Risk levels	\$ (6,636) \$	(8,521)
Model and methodology updates	(2,444)	(1,107)
Net decrease in Market Risk-Weighted Assets <sup>(6)</sup>	\$ (9,080) \$	(9,628)
Net decrease in Operational Risk-Weighted Assets	\$ — \$	(471)
Total Risk-Weighted Assets, end of period	\$ 1,234,271 \$	1,234,271

(1) General credit risk exposures decreased during the three months ended June 30, 2023, mainly driven by loans, partly offset by an increase in card activities. General credit risk exposures increased during the six months ended June 30, 2023, primarily driven by card activities.

(2) Derivative exposures decreased during the three and six months ended June 30, 2023, mainly driven by changes in CVA.

(3) Repo-style transactions increased during the three and six months ended June 30, 2023, mainly due to increased activities across multiple business areas.

(4) Equity exposures increased during the three and six months ended June 30, 2023, primarily due to increases in investment market share prices.

(5) Other exposures increased during the three and six months ended June 30, 2023, mainly driven by increases in other assets.

(6) Market risk-weighted assets decreased during the three and six months ended June 30, 2023, primarily due to exposure changes, partially offset by changes in model inputs related to volatility and correlation between market risk factors.

#### Supplementary Leverage Ratio

The following table presents Citi's Supplementary Leverage ratio and related components as of June 30, 2023, March 31, 2023 and December 31, 2022:

In millions of dollars, except ratios	June 30, 2023			March 31, 2023	December 31, 202		
Tier 1 Capital	\$	175,743	\$	175,249	\$	169,145	
Total Leverage Exposure							
<b>On-balance sheet assets</b> <sup>(1)(2)</sup>	\$	2,467,128	\$	2,463,758	\$	2,432,823	
Certain off-balance sheet exposures <sup>(3)</sup>							
Potential future exposure on derivative contracts		144,823		143,328		133,071	
Effective notional of sold credit derivatives, net <sup>(4)</sup>		31,833		30,931		34,117	
Counterparty credit risk for repo-style transactions <sup>(5)</sup>		19,399		18,255		17,169	
Other off-balance sheet exposures		318,185		320,800		326,553	
Total of certain off-balance sheet exposures	\$	514,240	\$	513,314	\$	510,910	
Less: Tier 1 Capital deductions		37,822		37,328		36,960	
Total Leverage Exposure	\$	2,943,546	\$	2,939,744	\$	2,906,773	
Supplementary Leverage ratio			6	5.96 %	6	5.82 %	

(1) Represents the daily average of on-balance sheet assets for the quarter.

(2) Citi's regulatory capital ratios and components reflect certain deferrals based on the modified regulatory capital transition provision related to the CECL standard. For additional information, see "Capital Resources—Regulatory Capital Treatment—Modified Transition of the Current Expected Credit Losses Methodology" in Citi's 2022 Form 10-K.

(3) Represents the average of certain off-balance sheet exposures calculated as of the last day of each month in the quarter.

(4) Under the U.S. Basel III rules, banking organizations are required to include in Total Leverage Exposure the effective notional amount of sold credit derivatives, with netting of exposures permitted if certain conditions are met.

(5) Repo-style transactions include repurchase and reverse repurchase transactions as well as securities borrowing and securities lending transactions.

As presented in the table above, Citigroup's Supplementary Leverage ratio was approximately 6.0% at June 30, 2023 and March 31, 2023, compared to approximately 5.8% at December 31, 2022. The ratio remained largely unchanged from the first quarter of 2023. The ratio increased from the fourth quarter of 2022, primarily driven by an increase in Tier 1 Capital due to year-to-date net income of \$7.5 billion, partially offset by an increase in Total Leverage Exposure, largely driven by higher average onbalance sheet assets.

#### *Capital Resources of Citigroup's Subsidiary U.S. Depository Institutions*

Citigroup's subsidiary U.S. depository institutions are also subject to regulatory capital standards issued by their respective primary bank regulatory agencies, which are similar to the standards of the Federal Reserve Board.

The following tables present the capital components and ratios for Citibank, Citi's primary subsidiary U.S. depository institution, as of June 30, 2023, March 31, 2023 and December 31, 2022:

		Advanced Approaches						St	tand	ardized App	roacl	1
In millions of dollars, except ratios	Required Capital Ratios <sup>(1)</sup>	June 30, 2023		March 31, 2023	Ε	December 31, 2022		June 30, 2023		March 31, 2023	De	ecember 31, 2022
CET1 Capital <sup>(2)</sup>		\$ 150,482	\$	151,724	\$	149,593	\$	150,482	\$	151,724	\$	149,593
Tier 1 Capital <sup>(2)</sup>		152,612		153,853		151,720		152,612		153,853		151,720
Total Capital (Tier 1 Capital + Tier 2 Capital) <sup>(2)(3)</sup>		165,840	)	167,065		165,131		173,517		174,608		172,647
Total Risk-Weighted Assets		1,041,217	'	1,038,394		1,003,747		986,744		968,749		982,914
Credit Risk <sup>(2)</sup>		\$ 758,445	5 \$	762,148	\$	728,082	\$	944,565	\$	932,787	\$	948,150
Market Risk		42,058	;	35,532		34,403		42,179		35,962		34,764
Operational Risk		240,714	ļ	240,714		241,262		_		_		_
CET1 Capital ratio <sup>(4)(5)</sup>	7.0 %	14.45	5 %	14.61	%	14.90 %	)	15.25 %	6	15.66 %	6	15.22 %
Tier 1 Capital ratio <sup>(4)(5)</sup>	8.5	14.60	j	14.82		15.12		15.47		15.88		15.44
Total Capital ratio <sup>(4)(5)</sup>	10.5	15.93		16.09		16.45		17.58		18.02		17.56

In millions of dollars, except ratios	Required Capital Ratios	Ju	ine 30, 2023		March 31, 2023	D	ecember 31, 2022
Quarterly Adjusted Average Total Assets <sup>(2)(6)</sup>		\$	1,716,982	\$	1,743,596	\$	1,738,744
Total Leverage Exposure <sup>(2)(7)</sup>			2,162,693		2,191,870		2,189,541
Leverage ratio <sup>(5)</sup>	5.0 %		8.89 %	0	8.82 %	ó	8.73 %
Supplementary Leverage ratio <sup>(5)</sup>	6.0		7.06		7.02		6.93

(1) Citibank's required risk-based capital ratios are inclusive of the 2.5% Capital Conservation Buffer (all of which must be composed of CET1 Capital).

(2) Citibank's regulatory capital ratios and components reflect certain deferrals based on the modified regulatory capital transition provision related to the CECL standard. For additional information, see "Capital Resources—Regulatory Capital Treatment—Modified Transition of the Current Expected Credit Losses Methodology" in Citi's 2022 Form 10-K.

(3) Under the Standardized Approach, the allowance for credit losses is eligible for inclusion in Tier 2 Capital up to 1.25% of credit risk-weighted assets, with any excess allowance for credit losses being deducted in arriving at credit risk-weighted assets, which differs from the Advanced Approaches framework, in which eligible credit reserves that exceed expected credit losses are eligible for inclusion in Tier 2 Capital to the extent that the excess reserves do not exceed 0.6% of credit risk-weighted assets.

(4) Citibank's binding CET1 Capital, Tier 1 Capital and Total Capital ratios were derived under the Basel III Advanced Approaches framework for all periods presented.

(5) Citibank must maintain required CET1 Capital, Tier 1 Capital, Total Capital and Leverage ratios of 6.5%, 8.0%, 10.0% and 5.0%, respectively, to be considered "well capitalized" under the revised Prompt Corrective Action (PCA) regulations applicable to insured depository institutions as established by the U.S. Basel III rules. Citibank must also maintain a required Supplementary Leverage ratio of 6.0% to be considered "well capitalized."

(6) Leverage ratio denominator. Represents quarterly average total assets less amounts deducted from Tier 1 Capital.

(7) Supplementary Leverage ratio denominator.

As indicated in the table above, Citibank's capital ratios at June 30, 2023 were in excess of the regulatory capital requirements under the U.S. Basel III rules. In addition, Citibank was "well capitalized" as of June 30, 2023.

As presented in the table above, Citibank's Supplementary Leverage ratio was 7.1% at June 30, 2023 and 7.0% at March 31, 2023, compared to 6.9% at December 31, 2022. The quarter-over-quarter increase was primarily driven by an increase in Tier 1 Capital due to net income in the second quarter of 2023, partially offset by dividends, and a decrease in Total Leverage Exposure, primarily driven by higher average on-balance sheet assets. The year-to-date increase was primarily driven by an increase in Tier 1 Capital due to net income in 2023, partially offset by dividends, and a decrease in Total Leverage Exposure, primarily driven by higher average on-balance sheet assets and off-balance sheet exposures. Impact of Changes on Citigroup and Citibank Capital Ratios The following tables present the estimated sensitivity of Citigroup's and Citibank's capital ratios to changes of \$100 million in CET1 Capital, Tier 1 Capital and Total Capital (numerator), and changes of \$1 billion in Advanced Approaches and Standardized Approach risk-weighted assets and quarterly adjusted average total assets, as well as Total Leverage Exposure (denominator), as of June 30, 2023. This information is provided for the purpose of analyzing the impact that a change in Citigroup's or Citibank's financial position or results of operations could have on these ratios. These sensitivities only consider a single change to either a component of capital, risk-weighted assets, quarterly adjusted average total assets or Total Leverage Exposure. Accordingly, an event that affects more than one factor may have a larger basis point impact than is reflected in these tables.

	Common Tier 1 Cap		Tier 1 Ca	pital ratio	Total Capital ratio			
In basis points	Impact of \$100 million change in Common Equity Tier 1 Capital	Impact of \$1 billion change in risk- weighted assets	Impact of \$100 million change in Tier 1 Capital	Impact of \$1 billion change in risk- weighted assets	Impact of \$100 million change in Total Capital	Impact of \$1 billion change in risk- weighted assets		
Citigroup								
Advanced Approaches	0.8	1.0	0.8	1.2	0.8	1.3		
Standardized Approach	0.9	1.2	0.9	1.3	0.9	1.6		
Citibank								
Advanced Approaches	1.0	1.4	1.0	1.4	1.0	1.5		
Standardized Approach	1.0	1.5	1.0	1.6	1.0	1.8		

	Leve	rage ratio	Supplementary Leverage ratio			
In basis points	Impact of \$100 million change in Tier 1 Capital	Impact of \$1 billion change in quarterly adjusted average total assets	Impact of \$100 million change in Tier 1 Capital	Impact of \$1 billion change in Total Leverage Exposure		
Citigroup	0.4	0.3	0.3	0.2		
Citibank	0.6	0.5	0.5	0.3		

#### Citigroup Broker-Dealer Subsidiaries

At June 30, 2023, Citigroup Global Markets Inc., a U.S. broker-dealer registered with the SEC that is an indirect wholly owned subsidiary of Citigroup, had net capital, computed in accordance with the SEC's net capital rule, of \$15 billion, which exceeded the minimum requirement by \$11 billion.

Moreover, Citigroup Global Markets Limited, a brokerdealer registered with the United Kingdom's Prudential Regulation Authority (PRA) that is also an indirect wholly owned subsidiary of Citigroup, had total regulatory capital of \$27 billion at June 30, 2023, which exceeded the PRA's minimum regulatory capital requirements.

In addition, certain of Citi's other broker-dealer subsidiaries are subject to regulation in the countries in which they do business, including requirements to maintain specified levels of net capital or its equivalent. Citigroup's other principal broker-dealer subsidiaries were in compliance with their regulatory capital requirements at June 30, 2023.

#### Total Loss-Absorbing Capacity (TLAC)

The table below details Citi's eligible external TLAC and long-term debt (LTD) amounts and ratios, and each TLAC and LTD regulatory requirement, as well as the surplus amount in dollars in excess of each requirement:

	June 30, 2023						
In billions of dollars, except ratios		xternal FLAC		LTD			
Total eligible amount	\$	338	\$	154			
% of Advanced Approaches risk- weighted assets		27.4 %	12.5 %				
Regulatory requirement <sup>(1)(2)</sup>		22.5		9.5			
Surplus amount	\$	60	\$	37			
% of Total Leverage Exposure		11.5 %		5.2 %			
Regulatory requirement		9.5		4.5			
Surplus amount	\$	58	\$	22			

(1) External TLAC includes method 1 GSIB surcharge of 2.0%.

(2) LTD includes method 2 GSIB surcharge of 3.5%.

As of June 30, 2023, Citi exceeded each of the TLAC and LTD regulatory requirements, resulting in a \$22 billion surplus above its binding TLAC requirement of LTD as a percentage of Total Leverage Exposure.

For additional information on Citi's TLAC-related requirements, see "Capital Resources—Total Loss-Absorbing Capacity (TLAC)" in Citi's 2022 Form 10-K.

#### Capital Resources (Full Adoption of CECL)<sup>(1)</sup>

The following tables present Citigroup's and Citibank's capital components and ratios under a hypothetical scenario where the full impact of CECL is reflected as of June 30, 2023:

	Citigroup				Citibank				
	RequiredRequiredCapital Ratios,Capital Ratios,AdvancedStandardizedAdvancesApproachApproachesApproachApproachesApproach			Advanced Approaches	Standardized Approach				
CET1 Capital ratio	10.5 %	12.0 %	12.35 %	13.21 %	7.0 %	14.32 %	15.11 %		
Tier 1 Capital ratio	12.0	13.5	14.09	15.08	8.5	14.53	15.33		
Total Capital ratio	14.0	15.5	15.90	17.78	10.5	15.80	17.45		
		Required Capital Ratios	Citig	roup	Required Capital Ratios	Citib	oank		
Leverage ratio		4.0 %	7.1	15 %	5.0 %	8.	81 %		
Supplementary Leverage r	atio	5.0	5.9	90	6.0	6.	99		

(1) See footnote 2 on the "Components of Citigroup Capital" table above.

(2) Citibank's required capital ratios were the same under the Standardized Approach and the Advanced Approaches framework.

#### **Regulatory Capital Standards and Developments**

#### **Basel III Revisions**

On July 27, 2023, the U.S. banking agencies issued a notice of proposed rulemaking, known as the Basel III Endgame (capital proposal), that would amend U.S. regulatory capital requirements.

The capital proposal would maintain the current capital rule's dual-requirement structure for risk-weighted assets but would eliminate the use of internal models to calculate credit risk and operational risk components of risk-weighted assets. Large banking organizations, such as Citi, would be required to calculate their risk-based capital ratios under both the new expanded risk-based approach and the Standardized Approach and use the lower of the two for each risk-based capital ratio for determining the binding constraints.

The expanded risk-based approach is designed to align with the international capital standards adopted by the Basel Committee on Banking Supervision (Basel Committee). The Basel Committee finalized the Basel III reforms in December 2017, which included revisions to the methodologies to determine credit, market and operational risk-weighted asset amounts.

If adopted as proposed, the capital proposal's impact on risk-weighted asset amounts would also affect several other requirements including TLAC, external long-term debt and the short-term wholesale funding score included in the GSIB surcharge under method 2 (see "GSIB Surcharge" below for additional changes in that area). The proposal has a three-year transition period that would begin on July 1, 2025. Citi is currently reviewing the proposal and will participate in the 120-day comment period. For additional information, see "Executive Summary" above.

#### **GSIB** Surcharge

Separately, the FRB proposed changes to the GSIB surcharge rule that aim to make it more risk sensitive. Proposed changes include measuring certain systemic indicators on a daily versus quarterly average basis, changing certain of the risk indicators, and shortening the time to come into compliance with each year's surcharge. In addition, the proposal would narrow surcharge bands under method 2 from 50 bps to 10 bps to reduce cliff effects when moving between bands. This proposal is also subject to a 120-day comment period and provides that it would be effective two full calendar quarters after its finalization. **Tangible Common Equity, Book Value Per Share, Tangible Book Value Per Share and Return on Equity** Tangible common equity (TCE), as defined by Citi, represents common stockholders' equity less goodwill and identifiable intangible assets (other than mortgage servicing rights (MSRs)). Return on tangible common equity (RoTCE) represents annualized net income available to common shareholders as a percentage of average TCE. Tangible book value per share (TBVPS) represents average TCE divided by average common shares outstanding. Other companies may calculate these measures differently. TCE, RoTCE and TBVPS are non-GAAP financial measures.

In millions of dollars or shares, except per share amounts	June 30, 2023	December 2022	31,
Total Citigroup stockholders' equity	\$ 208,719	\$ 201,	,189
Less: Preferred stock	20,245	18,	,995
Common stockholders' equity	\$ 188,474	\$ 182,	,194
Less:			
Goodwill	19,998	19,	,691
Identifiable intangible assets (other than MSRs)	3,895	3,	,763
Goodwill and identifiable intangible assets (other than MSRs) related to assets held-for-sale (HFS)	246		589
Tangible common equity (TCE)	\$ 164,335	\$ 158,	,151
Common shares outstanding (CSO)	1,925.7	1,93	37.0
Book value per share (common stockholders' equity/CSO)	\$ 97.87	\$ 94	4.06
Tangible book value per share (TCE/CSO)	85.34	8	1.65

	Th	Three Months Ended June 30,				Six Months Ended June 30,			
In millions of dollars		2023		2022		2023		2022	
Net income available to common shareholders	\$	2,627	\$	4,309	\$	6,956	\$	8,336	
Average common stockholders' equity		188,214		178,981		186,161		180,075	
Average TCE		164,142		154,439		162,145		155,318	
Return on average common stockholders' equity		5.6 %	/o	9.7 %	% 7.5		<b>%</b> 9.3 %		
RoTCE		6.4	11.2			8.7		10.8	

MANAGING GLOBAL RISK	<u>36</u>
CREDIT RISK <sup>(1)</sup>	<u>36</u>
Loans	<u>36</u>
Corporate Credit	<u>37</u>
Consumer Credit	<u>42</u>
Additional Consumer and Corporate Credit Details	<u>48</u>
Loans Outstanding	<u>48</u>
Details of Credit Loss Experience	<u>49</u>
Allowance for Credit Losses on Loans (ACLL)	50
Non-Accrual Loans and Assets	<u>52</u>
LIQUIDITY RISK	<u>54</u>
High-Quality Liquid Assets (HQLA)	<u>54</u>
Liquidity Coverage Ratio (LCR)	<u>54</u>
Deposits	55
Long-Term Debt	56
Secured Funding Transactions and Short-Term Borrowings	58
Credit Ratings	59
MARKET RISK <sup>(1)</sup>	60
Market Risk of Non-Trading Portfolios	<u>60</u>
Market Risk of Trading Portfolios	<u>70</u>
OTHER RISKS	<u>71</u>
LIBOR Transition Risk	<u>71</u>
Country Risk	<u>72</u>
Russia	<u>73</u>
Ukraine	<u>75</u>
Argentina	<u>76</u>

(1) For additional information regarding certain credit risk, market risk and other quantitative and qualitative information, refer to Citi's Pillar 3 Basel III Advanced Approaches Disclosures, as required by the rules of the Federal Reserve Board, on Citi's Investor Relations website.

# MANAGING GLOBAL RISK

For Citi, effective risk management is of primary importance to its overall operations. Accordingly, Citi's risk management process has been designed to monitor, evaluate and manage the principal risks it assumes in conducting its activities. Specifically, the activities that Citi engages in, and the risks those activities generate, must be consistent with Citi's Mission and Value Proposition and the key Leadership Principles that support it, as well as Citi's risk appetite. For more information on managing global risk at Citi, see "Managing Global Risk" in Citi's 2022 Form 10-K.

# **CREDIT RISK**

For more information on credit risk, including Citi's credit risk management, measurement and stress testing, and Citi's consumer and corporate credit portfolios, see "Credit Risk" and "Risk Factors" in Citi's 2022 Form 10-K.

#### Loans

The table below details the average loans, by business and/or segment, and the total Citigroup end-of-period loans for each of the periods indicated:

In billions of dollars	2	Q23	1Q23		2	2Q22
Personal Banking and Wealth Management						
U.S. Retail banking	\$	40	\$	38	\$	34
U.S. Cards		149		146		133
Global Wealth		150		149		150
Total	\$	339	\$	333	\$	317
Institutional Clients Group						
Services	\$	80	\$	79	\$	85
Banking		185		191		199
Markets		13		13		13
Total	\$	278	\$	283	\$	297
Total Legacy Franchises <sup>(1)</sup>	\$	37	\$	38	\$	43
Total Citigroup loans (AVG)	\$	654	\$	654	\$	657
Total Citigroup loans (EOP)	\$	661	\$	652	\$	657

(1) See footnote 2 to the table in "Credit Risk—Consumer Credit— Consumer Credit Portfolio" below.

Citi's loan portfolio is well diversified across consumer and corporate loans, with an aggregate duration of 1.2 years, as a majority of loans are at variable rates.

On an average basis, loans were largely unchanged yearover-year and sequentially as growth in *PBWM* was offset by a decline in *ICG* and *Legacy Franchises*. *PBWM* average loans increased 7% year-over-year, primarily driven by loan growth in cards, mortgages and installment lending. *ICG* average loans decreased 6% year-over-year, reflecting actions taken to reduce RWA. *Legacy Franchises* average loans decreased 14%, primarily reflecting the impact of the continued winddowns, particularly in Korea, partially offset by higher lending volumes in Mexico Consumer. End-of-period loans increased 1% year-over-year, as growth in *PBWM*, reflecting an increase in U.S. Personal Banking, was largely offset by declines in *ICG* and *Legacy Franchises*. End-of-period loans increased 1% sequentially.

### **CORPORATE CREDIT**

The following table details Citi's corporate credit portfolio within *ICG* and the Mexico SBMM component of *Legacy Franchises* (excluding certain loans managed on a delinquency basis, loans carried at fair value and loans held-for-sale), and before consideration of collateral or hedges, by remaining tenor for the periods indicated:

		June 30, 2023						March 31, 2023					December 31, 2022										
In billions of dollars	w	Due ithin year		Greater than 1 year but within 5 years		Greater than 5 years		Total sposure	w	Due vithin year		Greater than 1 year but within 5 years	freater than years		Fotal posure	w	Due ithin year		Greater than 1 year but within 5 years	_	reater than years		Fotal posure
Direct outstandings (on- balance sheet) <sup>(1)</sup>	\$	127	\$	118	\$	35	\$	280	\$	124	\$	124	\$ 35	\$	283	\$	134	\$	122	\$	27	\$	283
Unfunded lending commitments (off- balance sheet) <sup>(2)</sup>		135		260		16		411		126		256	16		398		140		256		10		406
Total exposure	\$	262	\$	378	\$	51	\$	691	\$	250	\$	380	\$ 51	\$	681	\$	274	\$	378	\$	37	\$	689

(1) Includes drawn loans, overdrafts, bankers' acceptances and leases.

(2) Includes unused commitments to lend, letters of credit and financial guarantees.

### Portfolio Mix—Geography and Counterparty

Citi's corporate credit portfolio is diverse across geography and counterparty. The following table presents the percentage of this portfolio by region based on Citi's internal management geography:

	June 30, 2023	March 31, 2023	December 31, 2022
North America	56 %	56 %	56 %
EMEA	25	25	25
Asia	12	12	12
Latin America	7	7	7
Total	100 %	100 %	100 %

The maintenance of accurate and consistent risk ratings across the corporate credit portfolio facilitates the comparison of credit exposure across all lines of business, geographic regions and products. Counterparty risk ratings reflect an estimated probability of default for a counterparty, and internal risk ratings are derived by leveraging validated statistical models and scorecards in combination with consideration of factors specific to the obligor or market, such as management experience, competitive position, regulatory environment and commodity prices. Facility risk ratings are assigned that reflect the probability of default of the obligor and factors that affect the loss given default of the facility, such as support or collateral. Internal obligor ratings that generally correspond to BBB and above are considered investment grade, while those below are considered noninvestment grade.

The following table presents the corporate credit portfolio by facility risk rating as a percentage of the total corporate credit portfolio:

	Total exposure						
	June 30, 2023	March 31, 2023	December 31, 2022				
AAA/AA/A	49 %	50 %	50 %				
BBB	34	33	34				
BB/B	15	15	14				
CCC or below	2	2	2				
Total	100 %	100 %	100 %				

Note: Total exposure includes direct outstandings and unfunded lending commitments.

In addition to the obligor and facility risk ratings assigned to all exposures, Citi may classify exposures in the corporate credit portfolio. These classifications are consistent with Citi's interpretation of the U.S. banking regulators' definition of criticized exposures, which may categorize exposures as special mention, substandard, doubtful or loss.

Risk ratings and classifications are reviewed regularly and adjusted as appropriate. The credit review process incorporates quantitative and qualitative factors, including financial and non-financial disclosures or metrics, idiosyncratic events or changes to the competitive, regulatory or macroeconomic environment.

Citi believes the corporate credit portfolio to be appropriately rated and classified as of June 30, 2023. Citi has taken action to adjust internal ratings and classifications of exposures as both the macroeconomic environment and obligor-specific factors have changed, particularly where additional stress has been seen. As obligor risk ratings are downgraded, the probability of default increases. Downgrades of obligor risk ratings tend to result in a higher provision for credit losses. In addition, appetite per obligor is reduced consistent with the ratings, and downgrades may result in the purchase of additional credit derivatives or other risk/structural mitigants to hedge the incremental credit risk, or may result in Citi's seeking to reduce exposure to an obligor or an industry sector. Citi will continue to review exposures to ensure that the appropriate probability of default is incorporated into all risk assessments.

See Note 13 for additional information on Citi's corporate credit portfolio.

#### Portfolio Mix—Industry

Citi's corporate credit portfolio is diversified by industry. The following table details the allocation of Citi's total corporate credit portfolio by industry:

_	Total exposure								
	June 30, 2023	March 31, 2023	December 31, 2022						
Transportation and industrials	21 %	21 %	20 %						
Technology, media and telecom	12	12	12						
Consumer retail	12	12	11						
Real estate	10	10	10						
Commercial	8	8	8						
Residential	2	2	2						
Banks and finance companies <sup>(1)</sup>	10	10	10						
Power, chemicals, metals and mining	9	9	9						
Energy and commodities	7	7	7						
Health	6	5	6						
Insurance	4	4	4						
Asset managers and funds	3	4	5						
Public sector	3	3	3						
Financial markets infrastructure	2	2	2						
Other industries	1	1	1						
Total	100 %	100 %	100 %						

 As of the periods in the table, Citi had less than 1% exposure to securities firms. See corporate credit portfolio by industry, below. The following table details Citi's corporate credit portfolio by industry as of June 30, 2023:

					Non-investment grade			\$	Selected metrics			
In millions of dollars	Total credit exposure	Funded <sup>(1)</sup>	Unfunded <sup>(1)</sup>	Investment grade	Non- criticized	Criticized performing	Criticized non- performing <sup>(2)</sup>	30 days or more past due and accruing	Net credit losses (recoveries)	Credit derivative hedges <sup>(3)</sup>		
Transportation and industrials	\$ 143,468	\$ 58,248	\$ 85,220	\$ 112,885	\$ 23,826	\$ 6,452	\$ 305	\$ 169	\$ 28	\$ (7,471)		
Autos <sup>(4)</sup>	47,759	21,016	26,743	41,253	5,187	1,268	51	9	18	(2,444)		
Transportation	26,137	10,325	15,812	18,924	4,842	2,286	85	15	8	(1,234)		
Industrials	69,572	26,907	42,665	52,708	13,797	2,898	169	145	2	(3,793)		
Technology, media and telecom	81,826	28,948	52,878	65,469	12,272	3,769	316	101	13	(6,323)		
Consumer retail	81,114	34,327	46,787	64,081	13,672	3,102	259	142	13	(5,373)		
Real estate	69,162	48,142	21,020	61,329	4,018	3,640	175	57	5	(681)		
Commercial	54,395	35,155	19,240	46,639	4,012	3,569	175	57	5	(681)		
Residential	14,767	12,987	1,780	14,690	6	71	—	—	—	—		
Banks and finance companies	71,627	43,277	28,350	60,984	9,138	1,360	145	12	31	(801)		
Power, chemicals, metals and mining	60,783	19,869	40,914	47,267	11,649	1,706	161	149	8	(4,964)		
Power	24,033	4,878	19,155	19,936	3,371	598	128	22	7	(2,239)		
Chemicals	22,477	8,658	13,819	17,252	4,503	711	11	44	1	(2,084)		
Metals and mining	14,273	6,333	7,940	10,079	3,775	397	22	83	_	(641)		
Energy and commodities <sup>(5)</sup>	44,895	12,799	32,096	37,771	5,970	1,040	114	43	(12)	(3,337)		
Health	38,213	9,560	28,653	32,247	4,457	1,360	149	22	7	(2,935)		
Insurance	29,640	4,101	25,539	28,732	884	24	_	9	—	(4,775)		
Asset managers and funds	23,503	6,384	17,119	21,880	1,537	73	13	227	_	(272)		
Public sector	24,042	10,849	13,193	20,839	2,732	462	9	23	4	(1,562)		
Financial markets infrastructure	16,701	141	16,560	16,701	_	_	_	66	_	(7)		
Securities firms	1,216	292	924	788	395	33	—	5	_	(2)		
Other industries	5,139	2,914	2,225	3,157	1,717	252	13	40		(10)		
Total	\$ 691,329	\$ 279,851	\$ 411,478	\$ 574,130	\$ 92,267	\$ 23,273	\$ 1,659	\$ 1,065	\$ 97	\$ (38,513)		

(1) Excludes \$0.6 billion and \$0.1 billion of funded and unfunded exposure at June 30, 2023, respectively, primarily related to the delinquency-managed loans. Funded balances also exclude loans carried at fair value of \$5.5 billion at June 30, 2023.

(2) Includes non-accrual loan exposures and criticized unfunded exposures.

(3) Represents the amount of purchased credit protection in the form of derivatives to economically hedge funded and unfunded exposures. Of the \$38.5 billion of purchased credit protection, \$35.9 billion represents the total notional amount of purchased credit derivatives on individual reference entities. The remaining \$2.6 billion represents the first loss tranche of portfolios of purchased credit derivatives with a total notional of \$20.9 billion, where the protection seller absorbs the first loss on the referenced loan portfolios.

(4) Autos total credit exposure includes securitization financing facilities secured by auto loans and leases, extended mainly to the finance company subsidiaries of global auto manufacturers, bank subsidiaries and independent auto finance companies, of approximately \$16.9 billion (\$8.7 billion in funded, with 100% rated investment grade) as of June 30, 2023.

(5) In addition to this exposure, Citi has energy-related exposure within the public sector (e.g., energy-related state-owned entities) and the transportation and industrials sector (e.g., off-shore drilling entities) included in the table above. As of June 30, 2023, Citi's total exposure to these energy-related entities was approximately \$4.8 billion, of which approximately \$2.4 billion consisted of direct outstanding funded loans.

### **Exposure to Commercial Real Estate**

As of June 30, 2023, Citi's total credit exposure to commercial real estate (CRE) was \$66 billion (unchanged from March 31, 2023), including \$8 billion of exposure related to office buildings. This total CRE exposure consisted of (i) approximately \$55 billion related to corporate clients (unchanged from March 31, 2023), mainly included in the real estate category in the table above, and (ii) approximately \$11 billion related to Private bank clients (unchanged from March 31, 2023) within *PBWM* that is not in the table above as they are not considered corporate exposures.

In addition, as of June 30, 2023, approximately 87% of Citi's total CRE exposure was rated investment grade and more than 76% was to borrowers in the U.S.

As of June 30, 2023, the ACLL attributed to the total funded CRE exposure (including the Private bank) was approximately 1.24%, and there were \$160 million of non-accrual CRE loans.

The following table details Citi's corporate credit portfolio by industry as of December 31, 2022:

					Non-investment grade			Selected metrics			
In millions of dollars	Total credit exposure	Funded <sup>(1)</sup>	Unfunded <sup>(1)</sup>	Investment grade	Non- criticized	Criticized performing	Criticized non- performing <sup>(2)</sup>	30 days or more past due and accruing	Net credit losses (recoveries)	Credit derivative hedges <sup>(3)</sup>	
Transportation and industrials	\$ 139,225	\$ 57,271	\$ 81,954	\$ 109,197	\$ 19,697	\$ 9,850	\$ 481	\$ 403	\$ —	\$ (8,459)	
Autos <sup>(4)</sup>	47,482	21,995	25,487	40,795	5,171	1,391	125	52	—	(3,084)	
Transportation	24,843	10,374	14,469	18,078	3,156	3,444	165	57	(30)	(1,270)	
Industrials	66,900	24,902	41,998	50,324	11,370	5,015	191	294	30	(4,105)	
Technology, media and telecom	81,211	28,931	52,280	65,386	12,308	3,308	209	169	11	(6,050)	
Consumer retail	78,255	32,687	45,568	60,215	14,830	2,910	300	195	28	(5,395)	
Real estate	70,676	48,539	22,137	63,023	4,722	2,881	50	138	2	(739)	
Commercial	54,139	34,112	20,027	46,670	4,716	2,703	50	96	2	(739)	
Residential	16,537	14,427	2,110	16,353	6	178	—	42	_	—	
Banks and finance companies	65,623	42,276	23,347	57,368	5,718	2,387	150	266	65	(1,113)	
Power, chemicals, metals and mining	59,404	18,326	41,078	47,395	10,466	1,437	106	226	34	(5,063)	
Power	22,718	4,827	17,891	18,822	3,325	512	59	129	(3)	(2,306)	
Chemicals	23,147	7,765	15,382	19,033	3,534	564	16	55	30	(2,098)	
Metals and mining	13,539	5,734	7,805	9,540	3,607	361	31	42	7	(659)	
Energy and commodities <sup>(5)</sup>	46,309	13,069	33,240	38,918	6,076	1,200	115	180	11	(3,852)	
Health	41,836	8,771	33,065	36,954	3,737	978	167	84	7	(2,855)	
Insurance	29,932	4,417	25,515	29,090	801	41	—	44	—	(3,884)	
Asset managers and funds	35,983	13,162	22,821	34,431	1,492	60		95	_	(759)	
Public sector	23,705	11,736	11,969	20,663	2,084	956	2	77	4	(1,633)	
Financial markets infrastructure	8,742	60	8,682	8,672	70	_	_	_	_	(18)	
Securities firms	1,462	569	893	625	678	157	2	2	_	(2)	
Other industries	6,697	3,651	3,046	4,842	1,568	238	49	19	16	(8)	
Total	\$ 689,060	\$ 283,465	\$ 405,595	\$ 576,779	\$ 84,247	\$ 26,403	\$ 1,631	\$ 1,898	\$ 178	\$ (39,830)	

(1) Excludes \$0.6 billion and \$0.1 billion of funded and unfunded exposure at December 31, 2022, respectively, primarily related to the delinquency-managed loans. Funded balances also exclude loans carried at fair value of \$5.1 billion at December 31, 2022.

(2) Includes non-accrual loan exposures and criticized unfunded exposures.

(3) Represents the amount of purchased credit protection in the form of derivatives to economically hedge funded and unfunded exposures. Of the \$39.8 billion of purchased credit protection, \$36.6 billion represents the total notional amount of purchased credit derivatives on individual reference entities. The remaining \$3.2 billion represents the first loss tranche of portfolios of purchased credit derivatives with a total notional of \$27.6 billion, where the protection seller absorbs the first loss on the referenced loan portfolios.

(4) Autos total credit exposure includes securitization financing facilities secured by auto loans and leases, extended mainly to the finance company subsidiaries of global auto manufacturers, bank subsidiaries and independent auto finance companies, of approximately \$17.4 billion (\$10.3 billion in funded, with more than 99% rated investment grade) as of December 31, 2022.

(5) In addition to this exposure, Citi has energy-related exposure within the public sector (e.g., energy-related state-owned entities) and the transportation and industrials sector (e.g., off-shore drilling entities) included in the table above. As of December 31, 2022, Citi's total exposure to these energy-related entities was approximately \$4.7 billion, of which approximately \$2.4 billion consisted of direct outstanding funded loans.

### **Credit Risk Mitigation**

As part of its overall risk management activities, Citigroup uses credit derivatives and other risk mitigants to hedge portions of the credit risk in its corporate credit portfolio, in addition to outright asset sales. Citi may enter into partial-term hedges as well as full-term hedges. In advance of the expiration of partial-term hedges, Citi will determine, among other factors, the economic feasibility of hedging the remaining life of the instrument. The results of the mark-tomarket and any realized gains or losses on credit derivatives are reflected primarily in *Principal transactions* in the Consolidated Statement of Income.

At June 30, 2023, March 31, 2023 and Dec 31, 2022, *ICG* had economic hedges on the corporate credit portfolio of \$38.5 billion, \$39.8 billion and \$39.8 billion, respectively. Citi's expected credit loss model used in the calculation of its ACL does not include the favorable impact of credit derivatives and other mitigants that are marked-to-market. In addition, the reported amounts of direct outstandings and unfunded lending commitments in the tables above do not reflect the impact of these hedging transactions. The credit protection was economically hedging underlying *ICG* corporate credit portfolio exposures with the following risk rating distribution:

## **Rating of Hedged Exposure**

	June 30, 2023	March 31, 2023	December 31, 2022
AAA/AA/A	42 %	42 %	39 %
BBB	43	44	45
BB/B	13	11	12
CCC or below	2	3	4
Total	100 %	100 %	100 %

## **CONSUMER CREDIT**

## **Consumer Credit Portfolio**

The following table presents Citi's quarterly end-of-period consumer loans<sup>(1)</sup>:

In billions of dollars	 2Q22 <sup>(2)</sup>	3Q22 <sup>(2)</sup>	4Q22 <sup>(2)</sup>	1Q23 <sup>(2)</sup>	2Q23 <sup>(2)</sup>
Personal Banking and Wealth Management					
U.S. Personal Banking					
Cards					
Branded cards	\$ 91.6 \$	93.7 \$	100.2 \$	97.1 <b>\$</b>	103.0
Retail services	45.8	46.7	50.5	48.4	50.0
Retail banking					
Mortgages <sup>(5)</sup>	32.3	32.3	33.4	35.3	37.4
Personal, small business and other	3.1	3.5	3.7	3.9	4.1
Global Wealth <sup>(3)(4)</sup>					
Cards	4.0	4.0	4.6	4.4	4.5
Mortgages <sup>(5)</sup>	77.8	82.0	84.0	85.2	87.0
Personal, small business and other <sup>(6)</sup>	67.0	65.1	60.6	60.3	59.0
Total	\$ 321.6 \$	327.3 \$	337.0 \$	334.6 \$	345.0
Legacy Franchises					
Asia Consumer <sup>(7)</sup>	\$ 17.3 \$	13.4 \$	13.3 \$	10.0 \$	9.1
Mexico Consumer (excludes Mexico SBMM)	13.5	13.7	14.8	16.3	17.8
Legacy Holdings Assets <sup>(8)</sup>	3.2	3.2	3.0	2.8	2.7
Total	\$ 34.0 \$	30.3 \$	31.1 \$	29.1 \$	29.6
Total consumer loans	\$ 355.6 \$	357.6 \$	368.1 \$	363.7 \$	374.6

(1) End-of-period loans include interest and fees on credit cards.

(2) Asia Consumer loan balances, reported within *Legacy Franchises*, exclude any loans reclassified to held-for-sale (HFS) as of the date Citi enters into a sale agreement for the respective Asia Consumer banking business. These reclassified HFS loans are instead reported in *Other assets* on the Consolidated Balance Sheet until sale closing. The remaining Asia Consumer loan portfolios—China, Korea, Russia and Poland—are held-for-investment and included in end-of-period consumer loans for all periods presented. All HFS portfolios were reclassified prior to the end of 1Q22 except for a \$1.8 billion portfolio, which was moved to HFS in 1Q23.

(3) Consists of \$99.5 billion, \$98.9 billion, \$98.2 billion, \$99.3 billion and \$94.6 billion of loans in North America as of June 30, 2023, March 31, 2023, December 31, 2022, September 30, 2022 and June 30, 2022, respectively. For additional information on the credit quality of the Global Wealth portfolio, see Note 13.

(4) Consists of \$51.0 billion, \$51.0 billion, \$51.0 billion, \$51.8 billion and \$54.2 billion of loans outside North America as of June 30, 2023, March 31, 2023, December 31, 2022, September 30, 2022 and June 30, 2022, respectively.

(5) See Note 13 for details on loan-to-value ratios for the portfolios and FICO scores for the U.S. portfolio.

(6) At June 30, 2023, includes approximately \$48 billion of classifiably managed loans. Over 90% of these loans are fully collateralized (consisting primarily of marketable investment securities, commercial real estate and limited partner capital commitments in private equity) and have experienced very low historical net credit losses (NCLs). As discussed below, approximately 97% of the classifiably managed portion of these loans are investment grade. See "Consumer Loan Delinquencies Amounts and Ratios" below for details on the delinquency-managed portfolio.

(7) Asia Consumer also includes loans and leases in certain EMEA countries for all periods presented.

(8) Primarily consists of certain North America consumer mortgages.

For information on changes to Citi's consumer loans, see "Credit Risk—Loans" above.



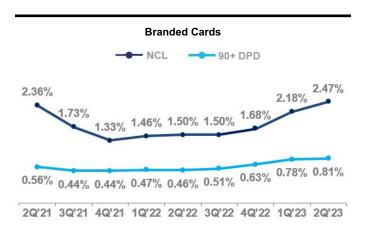


As indicated above, *PBWM* consists of U.S. Personal Banking and Global Wealth Management (Global Wealth). U.S. Personal Banking provides card products through Branded cards and Retail services, and also includes mortgages and home equity, small business and personal consumer loans through Citi's Retail banking network. The Retail bank is concentrated in six major U.S. metropolitan areas. Global Wealth provides investment services, cards, mortgages and personal, small business and other consumer loans through the Private bank, Wealth at Work and Citigold.

As of June 30, 2023, 44% of *PBWM* consumer loans consisted of U.S. cards loans. U.S. cards net credit losses represented approximately 93% of total *PBWM* losses.

As shown in the chart above, the second quarter of 2023 net credit loss rate in *PBWM* increased quarter-over-quarter and year-over-year, driven by a continued increase in net flow rates, primarily reflecting ongoing normalization from recent low levels in U.S. cards.

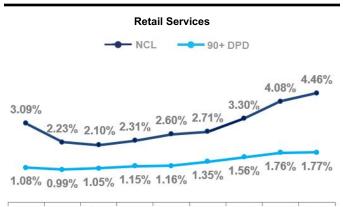
*PBWM*'s 90+ days past due delinquency rate was broadly stable quarter-over-quarter, and increased year-over-year. The year-over-year increase was largely driven by a continued increase in net flow rates, primarily reflecting the ongoing normalization in U.S. cards.



U.S. Personal Banking's Branded cards portfolio includes proprietary and co-branded cards.

As shown in the chart above, the second quarter of 2023 net credit loss rate in Branded cards increased quarter-overquarter and year-over-year, driven by a continued increase in net flow rates, primarily reflecting ongoing normalization toward pre-pandemic levels from recent low levels (for example, the 4Q'19 and 1Q'20 net credit loss rates were 3.10% and 3.40%, respectively).

The 90+ days past due delinquency rate increased quarterover-quarter and year-over-year, also driven by a continued increase in net flow rates, primarily reflecting the ongoing normalization toward pre-pandemic levels from recent low levels (for example, the 4Q'19 and 1Q'20 90+ days past due delinquency rates were 0.95% and 1.01%, respectively).



2Q'21 3Q'21 4Q'21 1Q'22 2Q'22 3Q'22 4Q'22 1Q'23 2Q'23

U.S. Personal Banking's Retail services partners directly with more than 20 retailers and dealers to offer private label and co-branded cards. Retail services' target market focuses on select industry segments such as home improvement, specialty retail, consumer electronics and fuel. Retail services continually evaluates opportunities to add partners within target industries that have strong loyalty, lending or payment programs and growth potential.

As shown in the chart above, the second quarter of 2023 net credit loss rate in Retail services increased quarter-overquarter and year-over-year, driven by a continued increase in net flow rates, primarily reflecting the ongoing normalization toward pre-pandemic levels from recent low levels (for example, the 4Q'19 and 1Q'20 net credit loss rates were 5.05% and 5.35%, respectively).

The 90+ days past due delinquency rate was broadly stable quarter-over-quarter, and increased year-over-year. The year-over-year increase was driven by a continued increase in net flow rates, primarily reflecting the ongoing normalization (for example, the 4Q'19 and 1Q'20 90+ days past due delinquency rates were 1.91% and 1.96%, respectively).

For additional information on cost of credit, loan delinquency and other information for Citi's cards portfolios, see each respective business's results of operations above and Note 13.



U.S. Personal Banking's Retail banking portfolio consists primarily of consumer mortgages (including home equity) and unsecured lending products, such as small business loans and personal loans. The portfolio is generally delinquency managed, where Citi evaluates credit risk based on FICO scores, delinquencies and the value of underlying collateral. The consumer mortgages in this portfolio have historically been extended to high credit quality customers, generally with loan-to-value ratios that are less than or equal to 80% on first and second mortgages. For additional information, see "Loanto-Value (LTV) Ratios" in Note 13.

As shown in the chart above, the net credit loss rate in Retail banking for the second quarter of 2023 decreased quarter-over-quarter, due to a decrease in overdraft losses, and decreased year-over-year, primarily driven by the impact of industry-wide episodic overdraft losses in the prior-year period.

The 90+ days past due delinquency rate decreased quarter-over-quarter and year-over-year, primarily driven by lower delinquencies in U.S. mortgages, which reflected the lasting effects of government stimulus, unemployment benefits and consumer relief programs.



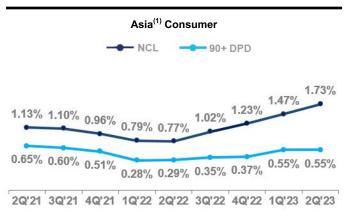
As discussed above, the Global Wealth credit portfolio primarily consists of consumer mortgages, cards and other lending products extended to customer segments that range from the affluent to ultra-high-net-worth through the Private bank, Wealth at Work and Citigold. These customer segments represent a target market that is characterized by historically low default rates and delinquencies.

As of June 30, 2023, approximately \$48 billion, or 32%, of the portfolio was classifiably managed and primarily consisted of margin lending, commercial real estate, subscription credit finance and other lending programs. These

classifiably managed loans are primarily evaluated for credit risk based on their internal risk rating, of which 97% is rated investment grade. While the delinquency rate in the chart above is calculated only for the delinquency-managed portfolio, the net credit loss rate is calculated using net credit losses for both the delinquency and classifiably managed portfolios.

As shown in the chart above, the net credit loss and 90+ days past due delinquency rates in Global Wealth for the second quarter of 2023 were broadly stable quarter-overquarter and year-over-year. The low levels of net credit losses and the 90+ days past due delinquency rate continued to reflect the strong credit profiles of the portfolios.

#### Legacy Franchises

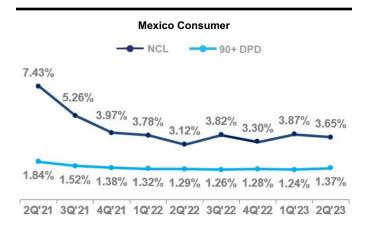


(1) Asia Consumer includes *Legacy Franchises* activities in certain EMEA countries for all periods presented.

Asia Consumer provides credit cards, consumer mortgages and small business and personal loans. Asia Consumer also includes loans and leases in certain EMEA countries for all periods presented.

As shown in the chart above, the net credit loss rate in Asia Consumer (for the remaining consumer banking portfolios held-for-investment (China, Korea, Russia and Poland)) for the second quarter of 2023 increased quarterover-quarter and year-over-year. The increases were primarily driven by lower average loans due to the ongoing wind-downs of the remaining businesses, particularly Korea, and the reclassification of a portfolio to HFS in the first quarter of 2023.

The 90+ days past due delinquency rate was unchanged quarter-over-quarter and increased year-over-year, mainly driven by lower loans due to the ongoing wind-downs of the remaining businesses and the reclassification of a portfolio to HFS in the first quarter of 2023. The overall performance of the remaining Asia Consumer portfolios continues to reflect the strong credit profiles of the customer segments.



Mexico Consumer operates in Mexico through Citibanamex and provides cards, consumer mortgages and small business and personal loans. Mexico Consumer serves a more mass-market segment in Mexico and focuses on developing multiproduct relationships with customers.

As shown in the chart above, the net credit loss rate in Mexico Consumer for the second quarter of 2023 decreased quarter-over-quarter, primarily due to higher recoveries in the second quarter of 2023, and increased year-over-year, primarily driven by the gradual normalization of loss rates after peak losses experienced during the pandemic.

The 90+ days past due delinquency rate increased quarterover-quarter and year-over-year, driven by the gradual normalization of delinquency rates after peak delinquencies during the pandemic.

For additional information on cost of credit, loan delinquency and other information for Citi's consumer loan portfolios, see each respective business's results of operations above and Note 13.

## U.S. Cards FICO Distribution

The following tables present the current FICO score distributions for Citi's Branded cards and Retail services portfolios based on end-of-period receivables. FICO scores are updated monthly for substantially all of the portfolio and on a quarterly basis for the remaining portfolio.

#### **Branded Cards**

FICO distribution <sup>(1)</sup>	June 30, 2023	March 31, 2023	June 30, 2022
> 760	47 %	45 %	49 %
680–760	38	39	38
< 680	15	16	13
Total	100 %	100 %	100 %

#### **Retail Services**

FICO distribution <sup>(1)</sup>	June 30, 2023	March 31, 2023	June 30, 2022
> 760	27 %	26 %	28 %
680–760	42	42	43
< 680	31	32	29
Total	100 %	100 %	100 %

(1) The FICO bands in the tables are consistent with general industry peer presentations.

The FICO distribution of both card portfolios trended up from the prior quarter, reflecting seasonal portfolio quality improvements, and declined from the prior year, reflecting the ongoing normalization in net credit loss and delinquency rates in both portfolios. The FICO distribution continued to reflect strong underlying credit quality and benefits from the continued impacts of government stimulus, unemployment benefits and customer relief programs. See Note 13 for additional information on FICO scores.

#### **Consumer Loan Delinquencies Amounts and Ratios**

	1	EOP oans <sup>(1)</sup>		90+ d	ays past due <sup>(2</sup>	)		30	-89	days past due <sup>(2)</sup>	
In millions of dollars, except EOP loan amounts in billions	J	une 30, 2023	J	une 30, 2023	March 31, 2023	June 30, 2022		June 30, 2023		March 31, 2023	June 30, 2022
Personal Banking and Wealth Management <sup>(3)(4)(5)</sup>											
Total	\$	345.0	\$	2,041 \$	1,982 \$	1,383	\$	2,213	\$	1,987 \$	1,435
Ratio				0.69 %	0.70 %	0.52 %	,	0.75 %	6	0.70 %	0.54 %
<b>U.S. Personal Banking</b>											
Total	\$	194.5	\$	1,882 \$	1,772 \$	1,128	\$	1,974	\$	1,725 \$	1,201
Ratio				0.97 %	0.96 %	0.66 %	,	1.02 %	6	0.94 %	0.70 %
Cards <sup>(4)</sup>											
Total		153.0		1,723	1,608	949		1,741		1,545	1,009
Ratio				1.13 %	1.11 %	0.69 %	,	1.14 %	6	1.06 %	0.73 %
Branded cards		103.0		837	754	420		834		740	428
Ratio				0.81 %	0.78 %	0.46 %	,	0.81 %	6	0.76 %	0.47 %
Retail services		50.0		886	854	529		907		805	581
Ratio				1.77 %	1.76 %	1.16 %	,	1.81 %	6	1.66 %	1.27 %
Retail banking <sup>(3)</sup>		41.5		159	164	179		233		180	192
Ratio				0.39 %	0.42 %	0.52 %	,	0.57 %	6	0.47 %	0.55 %
Global Wealth delinquency-managed loans <sup>(5)</sup>	\$	102.1	\$	159 \$	210 \$	255	\$	239	\$	262 \$	234
Ratio				0.16 %	0.21 %	0.27 %	,	0.23 %	6	0.26 %	0.25 %
Global Wealth classifiably managed loans <sup>(6)</sup>	\$	48.4		N/A	N/A	N/A		N/A	1	N/A	N/A
Legacy Franchises											
Total	\$	29.6	\$	413 \$	393 \$	393	\$	359	\$	338 \$	293
Ratio				1.40 %	1.36 %	1.16 %	,	1.22 %	6	1.17 %	0.87 %
Asia Consumer <sup>(7)(8)</sup>		9.1		50	55	51		60		65	70
Ratio				0.55 %	0.55 %	0.29 %		0.66 %	0	0.65 %	0.40 %
Mexico Consumer		17.8		243	202	174		228		205	159
Ratio				1.37 %	1.24 %	1.29 %		1.28 %	0	1.26 %	1.18 %
Legacy Holdings Assets (consumer) <sup>(9)</sup>		2.7		120	136	168		71		68	64
Ratio				4.80 %	5.44 %	5.60 %		2.84 %	0	2.72 %	2.13 %
Total Citigroup consumer	\$	374.6	\$	2,454 \$	2,375 \$	1,776	\$	2,572	\$	2,325 \$	1,728
Ratio				0.75 %	0.76 %	0.59 %	,	0.79 %	6	0.74 %	0.58 %

(1) End-of-period (EOP) loans include interest and fees on credit cards.

(2) The ratios of 90+ days past due and 30–89 days past due are calculated based on EOP loans, net of unearned income.

(3) The 90+ days past due and 30–89 days past due and related ratios for Retail banking exclude loans guaranteed by U.S. government-sponsored agencies since the potential risk of loss predominantly resides with the U.S. government-sponsored agencies. The amounts excluded for loans 90+ days past due and (EOP loans) were \$73 million (\$0.5 billion), \$80 million (\$0.6 billion) and \$119 million (\$0.7 billion) at June 30, 2023, March 31, 2023 and June 30, 2022, respectively. The amounts excluded for loans 30–89 days past due (the 30–89 days past due EOP loans have the same adjustments as the 90+ days past due EOP loans) were \$68 million, \$57 million and \$72 million at June 30, 2023, March 31, 2023 and June 30, 2023, March 31, 2023.

(4) The 90+ days past due balances for Branded cards and Retail services are generally still accruing interest. Citi's policy is generally to accrue interest on credit card loans until 180 days past due, unless notification of bankruptcy filing has been received earlier.

(5) Excludes EOP classifiably managed Private bank loans. These loans are not included in the delinquency numerator, denominator and ratios.

(6) These loans are evaluated for non-accrual status and write-off primarily based on their internal risk classification and not solely on their delinquency status, and therefore delinquency metrics are excluded from this table. As of June 30, 2023, March 31, 2023 and June 30, 2022, 97%, 93% and 94% of Global Wealth classifiably managed loans were rated investment grade. For additional information on the credit quality of the Global Wealth portfolio, including classifiably managed portfolios, see "Consumer Credit Trends" above.

(7) Asia Consumer includes delinquencies and loans in certain EMEA countries for all periods presented.

- (8) Citi has entered into agreements to sell certain Asia consumer banking businesses. Accordingly, the loans of these businesses have been reclassified as HFS in *Other assets* on the Consolidated Balance Sheet, and hence the loans and related delinquencies and ratios are not included in this table. The reclassifications commenced as follows: Bahrain, India, Indonesia, Malaysia, Taiwan, Thailand and Vietnam in 1Q22 (Bahrain, Malaysia and Thailand closed in 4Q22; India and Vietnam closed in 1Q23). In addition, a portfolio was reclassified to HFS in the first quarter of 2023. See Note 2 for additional information.
- (9) The 90+ days past due and 30–89 days past due and related ratios exclude U.S. mortgage loans that are primarily related to U.S. mortgages guaranteed by U.S. government-sponsored agencies since the potential risk of loss predominantly resides with the U.S. agencies. The amounts excluded for 90+ days past due and (EOP loans) were \$77 million (\$0.2 billion), \$81 million (\$0.3 billion) and \$84 million (\$0.2 billion) at June 30, 2023, March 31, 2023 and June 30, 2022, respectively. The amounts excluded for loans 30–89 days past due (the 30–89 days past due EOP loans have the same adjustments as the 90+ days past due EOP loans) were \$31 million, \$30 million and \$27 million at June 30, 2023, March 31, 2023 and June 30, 2022, respectively. The EOP loans in the table include the guaranteed loans.

N/A Not applicable

#### Consumer Loan Net Credit Losses (NCLs) and Ratios

		erage ins <sup>(1)</sup>	Net	credit losses <sup>(2)</sup>	
In millions of dollars, except average loan amounts in billions	20	Q23	2Q23	1Q23	2Q22
Personal Banking and Wealth Management <sup>(2)</sup>					
Total	\$	338.7	\$ 1,241	\$ 1,094 \$	699
Ratio			1.47 %	1.33 %	0.88 %
U.S. Personal Banking					
Total	\$	189.1	<b>\$ 1,218</b>	\$ 1,074 \$	679
Ratio			2.58 %	2.37 %	1.63 %
Cards					
Total		148.8	1,159	1,012	619
Ratio			3.12 %	2.82 %	1.87 %
Branded cards		99.8	614	521	329
Ratio			2.47 %	2.18 %	1.50 %
Retail services		49.0	545	491	290
Ratio			4.46 %	4.08 %	2.60 %
Retail banking		40.3	59	62	60
Ratio			0.59 %	0.66 %	0.70 %
Global Wealth	\$	149.6	<b>\$ 23</b> 5	\$ 20 \$	20
Ratio			0.06 %	0.05 %	0.05 %
Legacy Franchises					
Total	\$	29.1	<b>\$ 188</b> S	\$ 186 \$	128
Ratio			2.59 %	2.47 %	1.45 %
Asia Consumer <sup>(3)(4)</sup>		9.5	41	44	35
Ratio			1.73 %	1.47 %	0.77 %
Mexico Consumer		16.8	153	148	105
Ratio			3.65 %	3.87 %	3.12 %
Legacy Holdings Assets (consumer)		2.8	(6)	(6)	(12)
Ratio			(0.86)%	(0.84)%	(1.34)%
Total Citigroup	\$	367.8	<b>\$ 1,429</b>	\$ 1,280 \$	827
Ratio			1.56 %	1.43 %	0.94 %

(1) Average loans include interest and fees on credit cards.

(2) The ratios of net credit losses are calculated based on average loans, net of unearned income.

(3) Asia Consumer includes NCLs and average loans in certain EMEA countries (Russia and Poland) for all periods presented.

(4) Approximately \$8 million, \$11 million and \$50 million in NCLs relating to certain Asia Consumer businesses classified as held-for-sale in *Other assets* and *Other liabilities* on the Consolidated Balance Sheet were recorded as a reduction in revenue (*Other revenue*) in 2Q23, 1Q23 and 2Q22, respectively. Accordingly, these NCLs are not included in this table. See Note 2 for additional information regarding businesses held-for-sale.

#### ADDITIONAL CONSUMER AND CORPORATE CREDIT DETAILS

#### **Loans Outstanding**

In millions of dollars	2nd Qtr. 2023		1st Qtr. 2023		4th Qtr. 2022		3rd Qtr. 2022		2nd Qtr. 2022
Consumer loans					-				
In North America offices <sup>(1)</sup>									
Residential first mortgages <sup>(2)</sup>	\$ 102,680	\$	98,790	\$	96,039	\$	93,381	\$	88,662
Home equity loans <sup>(2)</sup>	4,000		4,244		4,580		4,794		5,074
Credit cards	152,951		145,543		150,643		140,404		137,412
Personal, small business and other	37,161		37,812		37,752		40,110		39,436
Total	\$ 296,792	\$	286,389	\$	289,014	\$	278,689	\$	270,584
In offices outside North America <sup>(1)</sup>									
Residential mortgages <sup>(2)</sup>	\$ 27,090	\$	26,913	\$	28,114	\$	27,281	\$	28,129
Credit cards	13,714		13,033		12,955		11,764		11,858
Personal, small business and other	36,995		37,361		37,984		39,849		45,034
Total	\$ 77,799	\$	77,307	\$	79,053	\$	78,894	\$	85,021
Consumer loans, net of unearned income <sup>(3)</sup>	\$ 374,591	\$	363,696	\$	368,067	\$	357,583	\$	355,605
Corporate loans									
In North America offices <sup>(1)</sup>									
Commercial and industrial	\$ 59,790	\$	59,790	\$	56,176	\$	52,990	\$	55,823
Financial institutions	36,268		38,524		43,399		43,667		46,088
Mortgage and real estate <sup>(2)</sup>	17,495		18,562		17,829		17,762		17,359
Installment and other	22,153		23,578		23,767		21,222		20,466
Lease financing	224		299		308		383		379
Total	\$ 135,930	\$	140,753	\$	141,479	\$	136,024	\$	140,115
In offices outside North America <sup>(1)</sup>									
Commercial and industrial	\$ 95,836	\$	92,803	\$	93,967	\$	100,570	\$	108,274
Financial institutions	21,701		22,272		21,931		23,604		24,654
Mortgage and real estate <sup>(2)</sup>	6,076		4,975		4,179		4,005		4,455
Installment and other	23,395		24,800		23,347		19,653		19,862
Lease financing	49		49		46		48		53
Governments and official institutions	3,034		2,647		4,205		4,473		4,315
Total	\$ 150,091	\$	147,546	\$	147,675	\$	152,353	\$	161,613
Corporate loans, net of unearned income <sup>(4)</sup>	\$ 286,021	\$	288,299	\$	289,154	\$	288,377	\$	301,728
Total loans—net of unearned income	\$ 660,612	\$	651,995	\$	657,221	\$	645,960	\$	657,333
Allowance for credit losses on loans (ACLL)	(17,496)		(17,169)		(16,974)		(16,309)		(15,952)
Total loans—net of unearned income and ACLL	\$ 643,116	\$	634,826	\$	640,247	\$	629,651	\$	641,381
ACLL as a percentage of total loans— net of unearned income <sup>(5)</sup>	2.67 %	6	2.65 %	6	2.60 %	6	2.54 %	<i></i> 0	2.44 %
ACLL for consumer loan losses as a percentage of total consumer loans—net of unearned income <sup>(5)</sup>	3.97 %	6	3.96 %	6	3.84 %	6	3.74 %	⁄ 0	3.65 %
ACLL for corporate loan losses as a percentage of total corporate loans—net of unearned income <sup>(5)</sup>	0.94 %	6	0.98 %	0	1.01 %	6	1.04 %	⁄ 0	1.00 %

(1) North America includes the U.S., Canada and Puerto Rico. Mexico is included in offices outside North America. The classification of corporate loans between offices in North America and outside North America is based on the domicile of the booking unit. The difference between the domicile of the booking unit and the domicile of the managing unit is not material.

(2) Loans secured primarily by real estate.

(3) Consumer loans are net of unearned income of \$769 million, \$718 million, \$671 million and \$631 million at June 30, 2023, March 31, 2023, December 31, 2022, September 30, 2022 and June 30, 2022, respectively. Unearned income on consumer loans primarily represents unamortized origination fees and costs, premiums and discounts.

(4) Corporate loans include Mexico SBMM loans and are net of unearned income of \$(795) million, \$(801) million, \$(797) million, \$(750) million and \$(759) million at June 30, 2023, March 31, 2023, December 31, 2022, September 30, 2022 and June 30, 2022, respectively. Unearned income on corporate loans primarily represents interest received in advance, but not yet earned, on loans originated on a discounted basis.

(5) Because loans carried at fair value do not have an ACLL, they are excluded from the ACLL ratio calculation.

#### **Details of Credit Loss Experience**

In millions of dollars	2nd Qtr. 2023		1st Qtr. 2023		4th Qtr. 2022		3rd Qtr. 2022		2nd Qtr. 2022
Allowance for credit losses on loans (ACLL) at beginning of period	\$ 17,169	\$	16,974	\$	16,309	\$	15,952	\$	15,393
Adjustment to opening balance:									
Financial instruments—TDRs and vintage disclosures <sup>(1)</sup>	\$ —	\$	(352)	\$	_	\$	—	\$	—
Adjusted ACLL at beginning of period	\$ 17,169	\$	16,622	\$	16,309	\$	15,952	\$	15,393
Provision for credit losses on loans (PCLL)									
Consumer	\$ 1,838	\$	1,800	\$	1,779	\$	1,281	\$	1,440
Corporate	(77)		(63)		(6)		47		(56)
Total	\$ 1,761	\$	1,737	\$	1,773	\$	1,328	\$	1,384
Gross credit losses on loans									
Consumer									
In U.S. offices	\$ 1,513	\$	1,329	\$	1,117	\$	946	\$	934
In offices outside the U.S.	280		266		220		248		221
Corporate									
In U.S. offices	26		16		51		8		21
In offices outside the U.S.	60		23		79		35		36
Total	\$ 1,879	\$	1,634	\$	1,467	\$	1,237	\$	1,212
Gross recoveries on loans									
Consumer									
In U.S. offices	\$ 301	\$	262	\$	235	\$	252	\$	265
In offices outside the U.S.	63		53		40		61		63
Corporate									
In U.S. offices	7		10		1		34		2
In offices outside the U.S.	4		7		11		3		32
Total	\$ 375	\$	332	\$	287	\$	350	\$	362
Net credit losses on loans (NCLs)									
In U.S. offices	\$ 1,231	\$	1,073	\$	932	\$	668	\$	688
In offices outside the U.S.	273		229		248		219		162
Total	\$ 1,504	\$	1,302	\$	1,180	\$	887	\$	850
Other—net <sup>(2)(3)(4)(5)(6)(7)</sup>	\$ 70	\$	112	\$	72	\$	(84)	\$	25
Allowance for credit losses on loans (ACLL) at end of period	\$ 17,496	\$	17,169	\$	16,974	\$	16,309	\$	15,952
ACLL as a percentage of EOP loans <sup>(8)</sup>	2.67 %	/o	2.65 %	6	2.60 %	6	2.54 %	6	2.44 %
Allowance for credit losses on unfunded lending commitments (ACLUC) <sup>(9)</sup>	\$ 1,862	\$	1,959	\$	2,151	\$	2,089	\$	2,193
Total ACLL and ACLUC	\$ 19,358	\$	19,128	\$	19,125	\$	18,398	\$	18,145
Net consumer credit losses on loans	\$	\$	1,280	\$	1,062	\$	881	\$	827
As a percentage of average consumer loans	1.56 %	/o	1.43 %		1.17 %		0.98 %		0.94 %
Net corporate credit losses on loans	\$	\$	22	\$	118	\$	6	\$	23
As a percentage of average corporate loans	0.11 %		0.03 %		0.16 %		0.01 %		0.03 %
ACLL by type at end of period <sup>(10)</sup>									
Consumer	\$ 14,866	\$	14,389	\$	14,119	\$	13,361	\$	12,983
Corporate	2,630		2,780		2,855		2,948		2,969
Total	\$ 17,496	\$	17,169	\$	16,974	\$	16,309	\$	15,952

(1) On January 1, 2023, Citi adopted Accounting Standards Update (ASU) 2022-02, *Financial Instruments—Credit Losses (Topic 326): TDRs and Vintage Disclosures.* The ASU eliminated the accounting and disclosure requirements for TDRs, including the requirement to measure the ACLL for TDRs using a discounted cash flow (DCF) approach. On January 1, 2023, Citi recorded a \$352 million decrease in the *Allowance for loan losses*, along with a \$290 million after-tax increase to *Retained earnings*.

(2) Includes all adjustments to the allowance for credit losses, such as changes in the allowance from acquisitions, dispositions, securitizations, FX translation, purchase accounting adjustments, etc.

(3) The second quarter of 2023 includes an increase of approximately \$70 million related to FX translation.

(4) The first quarter of 2023 includes an increase of approximately \$112 million related to FX translation.

- (5) The fourth quarter of 2022 includes an increase of approximately \$72 million related to FX translation.
- (6) The third quarter of 2022 includes a decrease of approximately \$84 million related to FX translation.
- (7) The second quarter of 2022 includes an increase of approximately \$25 million related to FX translation.
- (8) June 30, 2023, March 31, 2023, December 31, 2022, September 30, 2022 and June 30, 2022 exclude \$5.8 billion, \$5.1 billion, \$5.4 billion, \$3.9 billion and \$4.5 billion, respectively, of loans that are carried at fair value.
- (9) Represents additional credit reserves recorded as Other liabilities on the Consolidated Balance Sheet.
- (10) See "Significant Accounting Policies and Significant Estimates" below. Attribution of the allowance is made for analytical purposes only and is available to absorb probable credit losses inherent in the overall portfolio.

#### Allowance for Credit Losses on Loans (ACLL)

The following tables detail information on Citi's ACLL, loans and coverage ratios:

		June 30, 2	023
In billions of dollars	ACLL	EOP loans, net of unearned income	ACLL as a percentage of EOP loans <sup>(1)</sup>
Consumer			
North America cards <sup>(2)</sup>	\$ 12.0	\$ 153.0	7.9 %
North America mortgages <sup>(3)</sup>	0.4	106.5	0.4
North America other <sup>(3)</sup>	0.6	37.2	1.5
International cards	0.9	13.7	6.7
International other <sup>(3)</sup>	1.0	63.9	1.5
Total <sup>(1)</sup>	\$ 14.9	\$ 374.3	4.0 %
Corporate			
Commercial and industrial	\$ 1.7	\$ 152.6	1.1 %
Financial institutions	0.3	57.6	0.5
Mortgage and real estate	0.5	23.5	2.1
Installment and other	0.1	46.8	0.2
Total <sup>(1)</sup>	\$ 2.6	\$ 280.5	0.9 %
Loans at fair value <sup>(1)</sup>	N/A	\$ 5.8	N/A
Total Citigroup	\$ 17.5	\$ 660.6	2.7 %

	 December 31, 2022							
In billions of dollars	 ACLL	EOP loans, net of unearned income	ACLL as a percentage of EOP loans <sup>(1)</sup>					
Consumer								
North America cards <sup>(2)</sup>	\$ 11.4	\$ 150.6	7.6 %					
North America mortgages <sup>(3)</sup>	0.5	100.4	0.5					
North America other <sup>(3)</sup>	0.6	37.8	1.6					
International cards	0.8	13.0	6.2					
International other <sup>(3)</sup>	0.8	66.0	1.2					
Total <sup>(1)</sup>	\$ 14.1	\$ 367.8	3.8 %					
Corporate								
Commercial and industrial	\$ 1.9	\$ 147.8	1.3 %					
Financial institutions	0.4	64.9	0.6					
Mortgage and real estate	0.4	21.9	1.8					
Installment and other	0.2	49.4	0.4					
Total <sup>(1)</sup>	\$ 2.9	\$ 284.0	1.0 %					
Loans at fair value <sup>(1)</sup>	N/A	\$ 5.4	N/A					
Total Citigroup	\$ 17.0	\$ 657.2	2.6 %					

(1) Excludes loans carried at fair value, since they do not have an ACLL and are excluded from the ACLL ratio calculation.

(2) Includes both Branded cards and Retail services. As of June 30, 2023, the \$12.0 billion of ACLL represented approximately 31 months of coincident net credit loss coverage (based on 2Q23 NCLs). As of June 30, 2023, Branded cards ACLL as a percentage of EOP loans was 6.3% and Retail services ACLL as a percentage of EOP loans was 11.2%. As of December 31, 2022, the \$11.4 billion of ACLL represented approximately 43 months of coincident net credit loss coverage (based on 4Q22 NCLs). As of December 31, 2022, Branded cards ACLL as a percentage of EOP loans was 6.2% and Retail services ACLL as a percentage of EOP loans was 6.2% and Retail services ACLL as a percentage of EOP loans was 6.2% and Retail services ACLL as a percentage of EOP loans was 10.3%.

(3) Includes residential mortgages, retail loans and personal, small business and other loans, including those extended through the Private bank network.

N/A Not applicable

The following table details Citi's corporate credit ACLL by industry exposure:

		June 30, 2023	
In millions of dollars, except percentages	Funded exposure <sup>(1)</sup>	ACLL	ACLL as a % of funded exposure
Transportation and industrials	\$ 58,248	\$ 566	1.0 %
Technology, media and telecom	28,948	321	1.1
Consumer retail	34,327	299	0.9
Real estate <sup>(2)</sup>	48,142	572	1.2
Commercial	35,155	507	1.4
Residential	12,987	65	0.5
Banks and finance companies	43,277	219	0.5
Power, chemicals, metals and mining	19,869	228	1.1
Energy and commodities	12,799	175	1.4
Health	9,560	75	0.8
Insurance	4,101	15	0.4
Asset managers and funds	6,384	33	0.5
Public sector	10,849	57	0.5
Financial markets infrastructure	141	1	0.7
Securities firms	292	14	4.8
Other industries	2,914	48	1.6
Total classifiably managed loans <sup>(3)</sup>	\$ 279,851	\$ 2,623	0.9 %
Loans managed on a delinquency basis <sup>(4)</sup>	\$ 641	\$ 7	1.1 %
Total	\$ 280,492	\$ 2,630	0.9 %

(1) Funded exposure excludes loans carried at fair value of \$5.5 billion that are not subject to ACLL under the CECL standard.

(2) As of June 30, 2023, the portion of the ACLL attributed to the total funded CRE exposure (including the Private bank) was approximately 1.2%.

(3) As of June 30, 2023, the ACLL shown above reflects coverage of 0.4% of funded investment-grade exposure and 2.7% of funded non-investment-grade exposure.

(4) Primarily associated with delinquency-managed loans including commercial credit cards and other loans at June 30, 2023.

The following table details Citi's corporate credit ACLL by industry exposure:

		Dec	ember 31, 2022	
In millions of dollars, except percentages	e	Funded xposure <sup>(1)</sup>	ACLL	ACLL as a % of funded exposure
Transportation and industrials	\$	57,271 \$	699	1.2 %
Technology, media and telecom		28,931	330	1.1
Consumer retail		32,687	358	1.1
Real estate		48,539	500	1.0
Commercial		34,112	428	1.3
Residential		14,427	72	0.5
Power, chemicals, metals and mining		18,326	288	1.6
Banks and finance companies		42,276	225	0.5
Energy and commodities		13,069	188	1.4
Asset managers and funds		13,162	38	0.3
Health		8,771	81	0.9
Insurance		4,417	11	0.2
Public sector		11,736	58	0.5
Financial markets infrastructure		60	—	—
Securities firms		569	11	1.9
Other industries		3,651	59	1.6
Total classifiably managed loans <sup>(2)</sup>	\$	283,465 \$	2,846	1.0 %
Loans managed on a delinquency basis <sup>(3)</sup>	\$	566 \$	9	1.6 %
Total	\$	284,031 \$	2,855	1.0 %

(1) Funded exposure excludes loans carried at fair value of \$5.1 billion that are not subject to ACLL under the CECL standard.

(2) As of December 31, 2022, the ACLL shown above reflects coverage of 0.4% of funded investment-grade exposure and 3.0% of funded non-investment-grade exposure.

(3) Primarily associated with delinquency-managed loans including commercial credit cards and other loans at December 31, 2022.

## Non-Accrual Loans and Assets

For additional information on Citi's non-accrual loans and assets, see "Non-Accrual Loans and Assets" in Citi's 2022 Form 10-K.

## Non-Accrual Loans

The table below summarizes Citigroup's non-accrual loans as of the periods indicated. Non-accrual loans may still be current on interest payments. In situations where Citi reasonably expects that only a portion of the principal owed will ultimately be collected, all payments received are reflected as a reduction of principal and not as interest income. For all other non-accrual loans, cash interest receipts are generally recorded as revenue.

	Jun. 30,	lar. 31,	Dec. 31,	Sept. 30,	Jun. 30,
In millions of dollars	2023	 2023	2022	2022	2022
Corporate non-accrual loans by region <sup>(1)(2)(3)</sup>					
North America	\$ 358	\$ 285	\$ 138	\$ 276	\$ 304
EMEA	350	383	502	598	712
Latin America	428	462	429	555	563
Asia	125	83	53	56	76
Total	\$ 1,261	\$ 1,213	\$ 1,122	\$ 1,485	\$ 1,655
Corporate non-accrual loans <sup>(1)(2)(3)</sup>					
Banking	\$ 931	\$ 868	\$ 767	\$ 1,085	\$ 1,015
Services	123	133	153	185	353
Markets	1	3	3	_	11
Mexico SBMM	206	209	199	215	276
Total	\$ 1,261	\$ 1,213	\$ 1,122	\$ 1,485	\$ 1,655
Consumer non-accrual loans <sup>(1)</sup>					
U.S. Personal Banking and Global Wealth	\$ 536	\$ 608	\$ 541	\$ 585	\$ 536
Asia Consumer <sup>(4)</sup>	24	29	30	30	34
Mexico Consumer	498	480	457	486	493
Legacy Holdings Assets—Consumer	263	278	289	300	317
Total	\$ 1,321	\$ 1,395	\$ 1,317	\$ 1,401	\$ 1,380
Total non-accrual loans	\$ 2,582	\$ 2,608	\$ 2,439	\$ 2,886	\$ 3,035

(1) Corporate loans are placed on non-accrual status based upon a review by Citigroup's risk officers. Corporate non-accrual loans may still be current on interest payments. With limited exceptions, the following practices are applied for consumer loans: consumer loans, excluding credit cards and mortgages, are placed on non-accrual status at 90 days past due and are charged off at 120 days past due; residential mortgage loans are placed on non-accrual status at 90 days past due and written down to net realizable value at 180 days past due. Consistent with industry conventions, Citigroup generally accrues interest on credit card loans until such loans are charged off, which typically occurs at 180 days contractual delinquency. As such, the non-accrual loan disclosures do not include credit card loans. The balances above represent non-accrual loans within *Corporate loans* and *Consumer loans* on the Consolidated Balance Sheet.

(2) Approximately 51%, 61%, 50%, 68% and 52% of Citi's corporate non-accrual loans were performing at June 30, 2023, March 31, 2023, December 31, 2022, September 30, 2022 and June 30, 2022, respectively.

(3) The June 30, 2023 total corporate non-accrual loans represented 0.44% of total corporate loans.

(4) Asia Consumer includes balances in certain EMEA countries for all periods presented.

### **Modified Loans**

On January 1, 2023, Citi adopted ASU 2022-02, which eliminated the accounting and disclosure requirements for TDRs (see Note 1 for additional information). See Note 13 for information on loan modifications during the six months ended June 30, 2023. The changes in Citigroup's non-accrual loans were as follows:

			ee Months End June 30, 2023	ed	Th	ree Months End June 30, 2022	led	
In millions of dollars	Co	orporate	Consumer	Total	Corporate	Consumer		Total
Non-accrual loans at beginning of quarter	\$	1,213 \$	1,395	\$ 2,608	\$ 1,866	\$ 1,517	\$	3,383
Additions		289	339	628	721	344		1,065
Sales and transfers to HFS		_	(8)	(8)	(5)	(36)	)	(41)
Returned to performing		(14)	(128)	(142)	(120)	(77)	)	(197)
Paydowns/settlements		(151)	(99)	(250)	(746)	(199)	)	(945)
Charge-offs		(74)	(196)	(270)	(56)	(140)	)	(196)
Other		(2)	18	16	(5)	(29)	)	(34)
Ending balance	\$	1,261 \$	1,321	\$ 2,582	\$ 1,655	\$ 1,380	\$	3,035

			Months Ende June 30, 2023	ed		:	Six Months Ende June 30, 2022	d
In millions of dollars	C	orporate	Consumer	To	tal	Corporate	Consumer	Total
Non-accrual loans at beginning of year	\$	1,122 \$	1,317	\$	2,439	\$ 1,553	\$ 1,826	\$ 3,379
Additions		689	781		1,470	1,541	643	2,184
Sales and transfers to HFS		(25)	(14)		(39)	(6)	(224)	(230)
Returned to performing		(89)	(176)		(265)	(253)	(256)	(509)
Paydowns/settlements		(320)	(235)		(555)	(1,069)	(295)	(1,364)
Charge-offs		(106)	(388)		(494)	(105)	(295)	(400)
Other		(10)	36		26	(6)	(19)	(25)
Ending balance	\$	1,261 \$	1,321	\$	2,582	\$ 1,655	\$ 1,380	\$ 3,035

The table below summarizes Citigroup's other real estate owned (OREO) assets. OREO is recorded on the Consolidated Balance Sheet within *Other assets*. This represents the carrying value of all real estate property acquired by foreclosure or other legal proceedings when Citi has taken possession of the collateral:

In millions of dollars	Jun. 30, 2023		Mar. 31, 2023		Dec. 31, 2022		Sept. 30, 2022		Jun. 30, 2022
OREO									
North America	\$ 17	\$	15	\$	10	\$	9	\$	7
EMEA	—		—		—				—
Latin America	13		5		4		5		5
Asia	1		1		1		2		1
Total OREO	\$ 31	\$	21	\$	15	\$	16	\$	13
Non-accrual assets									
Corporate non-accrual loans	\$ 1,261	\$	1,213	\$	1,122	\$	1,485	\$	1,655
Consumer non-accrual loans	1,321		1,395		1,317		1,401		1,380
Non-accrual loans (NAL)	\$ 2,582	\$	2,608	\$	2,439	\$	2,886	\$	3,035
OREO	\$ 31	\$	21	\$	15	\$	16	\$	13
Non-accrual assets (NAA)	\$ 2,613	\$	2,629	\$	2,454	\$	2,902	\$	3,048
NAL as a percentage of total loans	0.39 %	6	0.40 %	6	0.37 %	6	0.45 %	6	0.46 %
NAA as a percentage of total assets	0.11		0.11		0.10		0.12		0.13
ACLL as a percentage of NAL <sup>(1)</sup>	678		658		696		565		526

(1) The ACLL includes the allowance for Citi's credit card portfolios and purchased credit-deteriorated loans, while the non-accrual loans exclude credit card balances (with the exception of certain international portfolios).

# LIQUIDITY RISK

For additional information on funding and liquidity at Citi, including its objectives, management and measurement, see "Liquidity Risk" and "Risk Factors—Liquidity Risks" in Citi's 2022 Form 10-K.

# High-Quality Liquid Assets (HQLA)

		С	itibank			0	Citi non-b	ban	k and otl	ıer	entities				Total	
In billions of dollars	un. 30, 2023	N	far. 31, 2023	J	un. 30, 2022	J	lun. 30, 2023	N	Mar. 31, 2023	J	Jun. 30, 2022	J	un. 30, 2023	N	Mar. 31, 2023	ın. 30, 2022
Available cash	\$ 254.3	\$	267.1	\$	188.1	\$	4.9	\$	3.9	\$	1.7	\$	259.2	\$	271.0	\$ 189.8
U.S. sovereign	120.3		111.9		149.4		74.7		77.9		55.4		195.0		189.8	204.8
U.S. agency/agency MBS	45.1		42.5		54.4		3.8		3.9		4.6		48.9		46.4	59.0
Foreign government debt <sup>(1)</sup>	60.9		54.9		60.4		19.1		20.6		13.9		80.0		75.5	74.3
Other investment grade	0.5		1.3		2.0		0.2		0.3		1.3		0.7		1.6	3.3
Total HQLA (AVG)	\$ 481.1	\$	477.7	\$	454.3	\$	102.7	\$	106.6	\$	76.9	\$	583.8	\$	584.3	\$ 531.2

Note: The amounts shown in the table above are presented on an average basis. For securities, the amounts represent the liquidity value that potentially could be realized and, therefore, exclude any securities that are encumbered and incorporate any haircuts applicable under the U.S. LCR rule. The table above incorporates various restrictions that could limit the transferability of liquidity between legal entities, including Section 23A of the Federal Reserve Act.

(1) Foreign government debt includes securities issued or guaranteed by foreign sovereigns, agencies and multilateral development banks. Foreign government debt securities are held largely to support local liquidity requirements and Citi's local franchises and principally include government bonds from Japan, Korea, Mexico, India and Singapore.

The table above includes average amounts of HQLA held at Citigroup's operating entities that are eligible for inclusion in the calculation of Citigroup's consolidated Liquidity Coverage ratio (LCR), pursuant to the U.S. LCR rules. These amounts include the HQLA needed to meet the minimum requirements at these entities as well as any amounts in excess of these minimums that are available to be transferred to other entities within Citigroup. Citigroup's total average HQLA as of the second quarter of 2023 remained largely unchanged sequentially.

As of June 30, 2023, Citigroup had approximately \$993 billion of available liquidity resources to support client and business needs, including end-of-period HQLA (\$591 billion); additional unencumbered HQLA, including excess liquidity held at bank entities that is non-transferable to other entities within Citigroup (\$212 billion); and unused borrowing capacity from available assets not already accounted for within Citi's HQLA to support additional advances from the Federal Home Loan Bank (FHLB) and the Federal Reserve Bank discount window (\$190 billion).

#### Short-Term Liquidity Measurement: Liquidity Coverage Ratio (LCR)

In addition to internal 30-day liquidity stress testing performed for Citi's major entities, operating subsidiaries and countries, Citi also monitors its liquidity by reference to the LCR. The table below details the components of Citi's LCR calculation and HQLA in excess of net outflows for the periods indicated:

In billions of dollars	Jun. 30, 2023	Mar. 31, 2023	Jun. 30, 2022
HQLA	\$583.8	\$ 584.3	\$ 531.2
Net outflows	491.9	488.2	460.2
LCR	119 %	120 %	115 %
HQLA in excess of net outflows	\$ 91.9	\$ 96.1	\$ 71.0

Note: The amounts are presented on an average basis.

As of June 30, 2023, Citigroup's average LCR decreased, from the quarter ended March 31, 2023. The decrease was primarily driven by the reduction in unsecured long-term debt.

In addition, considering Citi's total available liquidity resources at quarter end of \$993 billion, Citi maintained approximately \$501 billion of excess liquidity above the stressed average net outflow of approximately \$492 billion, shown in the LCR table above.

#### Long-Term Liquidity Measurement: Net Stable Funding Ratio (NSFR)

As previously disclosed, the U.S. banking agencies adopted a rule to assess the availability of a bank's stable funding against a required level.

The rule became effective beginning July 1, 2021, while public disclosure of the ratio is required to occur on a semiannual basis beginning as of June 30, 2023. Citi was in compliance with the rule as of June 30, 2023.

### **Select Balance Sheet Items**

This section provides details of select liquidity-related liabilities reported on Citigroup's Consolidated Balance Sheet on an average and end-of-period basis.

## Cash and Investments

The table below details average and end-of-period *Cash and due from banks*, *Deposits with banks* (collectively cash) and *Investment securities*. Citi's investment portfolio consists largely of highly liquid U.S. Treasury, U.S. agency and other sovereign bonds, with an aggregate duration of less than three years. At June 30, 2023, Citi's EOP cash and *Investment securities* comprised approximately 33% of Citigroup's total assets:

In billions of dollars	2	Q23	1	Q23	2	2Q22
Cash and due from banks	\$	28	\$	28	\$	44
Deposits with banks		310		326		227
Investment securities		508		516		520
Total Citigroup cash and Investment securities (AVG)	\$	846	\$	870	\$	791
Total Citigroup cash and Investment securities (EOP)	\$	804	\$	842	\$	798

### Deposits

The table below details the average deposits, by business and/ or segment, and the total Citigroup end-of-period deposits for each of the periods indicated:

In billions of dollars	2Q23	1Q23	2Q22
Personal Banking and Wealth Management			
U.S. Personal Banking	\$ 113	\$ 111	\$ 116
Global Wealth	318	323	319
Total	\$ 431	\$ 434	\$ 435
Institutional Clients Group			
TTS	\$ 688	\$ 704	\$ 672
Securities services	125	125	137
Markets and Banking	24	24	21
Total	\$ 837	\$ 853	\$ 830
Legacy Franchises <sup>(1)</sup>	\$ 51	\$ 50	\$ 51
Corporate/Other	\$ 19	\$ 26	\$ 7
Total Citigroup deposits (AVG)	\$ 1,338	\$ 1,363	\$ 1,323
Total Citigroup deposits (EOP)	\$ 1,320	\$ 1,330	\$ 1,322

(1) See footnote 2 to the table in "Credit Risk—Consumer Credit— Consumer Credit Portfolio" above. Citi's deposit base is spread across a diversified set of countries, industries, clients and currencies.

On an average basis, deposits increased 1% year-overyear and were down 2% sequentially. The year-over-year increase primarily reflected an increase in *Corporate/Other* and ICG, partially offset by a decline in PBWM. Corporate/ Other average deposits increased \$12 billion year-over-year, primarily driven by the issuance of institutional certificates of deposit. ICG average deposits increased 1% year-over-year, driven by TTS. PBWM average deposits decreased 1% yearover-year, largely reflecting the reallocation of deposits to higher-yielding investments. Legacy Franchises average deposits were largely unchanged year-over-year. The quarterover-quarter decrease was largely driven by TTS, reflecting some non-operational outflows as expected in light of quantitative tightening, and Corporate/Other. Despite this decline, TTS had strong growth in operating accounts as the business continued to attract new clients and deepen existing relationships.

End-of-period deposits were largely unchanged year-overyear, as an increase in institutional certificates of deposit in *Corporate/Other* was offset by a decrease in *ICG*, driven by Securities services. End-of-period deposits decreased 1% sequentially, reflecting seasonal activity in TTS and Global Wealth.

The majority of Citi's \$1.3 trillion of end-of-period deposits are institutional (approximately \$818 billion), and span approximately 90 countries. A large majority of these institutional deposits are within TTS, and of these, approximately 80% are from clients that use all three TTS integrated services: payments and collections, liquidity management and working capital solutions. In addition, nearly 80% of TTS deposits are from clients that have a greater than 15-year relationship with Citi. Over the past year, TTS deposits grew at a faster rate than total Citi deposits on both an average and end-of-period basis. Citi also has a strong consumer and wealth deposit base, with \$427 billion of U.S. Retail banking and Global Wealth deposits as of end-ofperiod, which are diversified across the Private bank, Citigold, Retail banking and Wealth at Work. As of year-end 2022, approximately 75% of U.S. Citigold clients have been with Citi for more than 10 years and approximately 50% of Private bank ultra-high-net-worth clients have been with Citi for more than 10 years. U.S. Personal Banking deposits are spread across six core urban centers.

#### Long-Term Debt

#### Weighted Average Maturity (WAM)

The following table presents Citigroup and its affiliates' (including Citibank) WAM of unsecured long-term debt issued with a remaining life greater than one year:

WAM in years	Jun. 30, 2023	Mar. 31, 2023	Jun. 30, 2022
Unsecured debt	7.7	7.5	8.0
Non-bank benchmark debt	7.3	7.2	7.5
TLAC-eligible debt	8.9	8.8	9.1

The WAM is calculated based on the contractual maturity of each security. For securities that are redeemable prior to maturity at the option of the holder, the WAM is calculated based on the earliest date an option becomes exercisable.

#### Long-Term Debt Outstanding

Citi's long-term debt outstanding at the Citigroup parent company includes benchmark senior and subordinated debt and what Citi refers to as customer-related debt, consisting of structured notes, such as equity- and credit-linked notes, as well as non-structured notes. Citi's issuance of customerrelated debt is generally driven by customer demand and complements benchmark debt issuance as a source of funding for Citi's non-bank entities. Citi's long-term debt at the bank includes bank notes, FHLB advances and securitizations.

The following table presents Citi's end-of-period total long-term debt outstanding for each of the dates indicated:

In billions of dollars	ın. 30, 2023	Mar. 31, 2023		un. 30, 2022
Non-bank <sup>(1)</sup>				
Benchmark debt:				
Senior debt	\$ 111.1	\$	117.1	\$ 120.3
Subordinated debt	24.5		22.7	24.0
Trust preferred	1.6		1.6	1.6
Customer-related debt	110.3		109.7	84.9
Local country and other <sup>(2)</sup>	7.9		8.7	7.8
Total non-bank	\$ 255.4	\$	259.8	\$ 238.6
Bank				
FHLB borrowings	\$ 7.5	\$	7.3	\$ 2.3
Securitizations <sup>(3)</sup>	5.5		6.6	9.5
Citibank benchmark senior debt	2.6		2.6	2.6
Local country and other <sup>(2)</sup>	3.5		3.4	4.4
Total bank	\$ 19.1	\$	19.9	\$ 18.8
Total long-term debt	\$ 274.5	\$	279.7	\$ 257.4

Note: Amounts represent the current value of long-term debt on Citi's Consolidated Balance Sheet that, for certain debt instruments, includes consideration of fair value, hedging impacts and unamortized discounts and premiums.

(1) Non-bank includes long-term debt issued to third parties by the parent holding company (Citigroup) and Citi's non-bank subsidiaries (including broker-dealer subsidiaries) that are consolidated into Citigroup. As of June 30, 2023, non-bank included \$92.4 billion of long-term debt issued by Citi's broker-dealer and other subsidiaries that are consolidated into Citigroup. Certain Citigroup consolidated hedging activities are also included in this line.

- (2) Local country and other includes debt issued by Citi's affiliates in support of their local operations. Within non-bank, certain secured financing is also included.
- (3) Predominantly credit card securitizations, primarily backed by Branded cards receivables.

Citi's total long-term debt outstanding increased 7% yearover-year, largely driven by the issuance of customer-related debt at the non-bank entities and increased FHLB borrowings at the bank. The increase was partially offset by the decline in senior benchmark debt at the non-bank entities, as well as lower securitizations at the bank. Sequentially, long-term debt outstanding decreased 2%, largely driven by a decline in senior benchmark debt at the non-bank entities.

As part of its liability management, Citi has considered, and may continue to consider, opportunities to redeem or repurchase its long-term debt pursuant to open market purchases, tender offers or other means. Such redemptions and repurchases help reduce Citi's overall funding costs. During the second quarter of 2023, Citi redeemed or repurchased an aggregate of approximately \$8.9 billion of its outstanding long-term debt.

# Long-Term Debt Issuances and Maturities

The table below details Citi's long-term debt issuances and maturities (including repurchases and redemptions) during the periods presented:

		2Q23	3	10	Q23	2Q	22
In billions of dollars	Ma	turities	Issuances	Maturities	Issuances	Maturities	Issuances
Non-bank							
Benchmark debt:							
Senior debt	\$	5.3 \$	_	\$ 1.7	\$	\$ 3.5	\$ 6.0
Subordinated debt		1.3	3.2		· <u> </u>	_	_
Trust preferred		_	_		· <u> </u>	_	_
Customer-related debt		12.5	10.6	9.0	14.1	5.0	21.8
Local country and other		0.9	0.6	0.4	1.5	0.3	0.4
Total non-bank	\$	20.0 \$	14.4	\$ 11.1	\$ 15.6	\$ 8.8	\$ 28.2
Bank							
FHLB borrowings	\$	2.3 \$	2.5	\$	\$	\$ 1.0	\$ 2.3
Securitizations		1.1	_	1.0		_	_
Citibank benchmark senior debt		—	_			0.9	_
Local country and other		0.1	_	0.3	0.1	0.6	0.1
Total bank	\$	3.5 \$	2.5	\$ 1.3	\$ 0.1	\$ 2.5	\$ 2.4
Total	\$	23.5 \$	16.9	\$ 12.4	\$ 15.7	\$ 11.3	\$ 30.6

The table below details Citi's aggregate long-term debt maturities (including repurchases and redemptions) during the first quarter of 2023, as well as its aggregate expected remaining long-term debt maturities by year as of June 30, 2023:

			Maturities														
In billions of dollars	2Q2	23 YTD	2023		2024		2025		2026		2027		2028	Th	ereafter		Total
Non-bank																	
Benchmark debt:																	
Senior debt	\$	7.0	\$ 3.2	\$	5.4	\$	11.9	\$	23.6	\$	6.9	\$	14.8	\$	45.3	\$	111.1
Subordinated debt		1.3	_		0.9		4.8		2.3		3.6		2.0		10.9		24.5
Trust preferred		_			—		_		_				_		1.6		1.6
Customer-related debt		21.5	8.9		24.1		15.7		8.9		10.0		6.8		35.9		110.3
Local country and other		1.3	0.9		1.1		1.8		0.7		—		0.9		2.5		7.9
Total non-bank	\$	31.1	\$ 13.0	\$	31.5	\$	34.2	\$	35.5	\$	20.5	\$	24.5	\$	96.2	\$	255.4
Bank																	
FHLB borrowings	\$	2.3	\$ 2.0	\$	3.0	\$	2.5	\$	_	\$	_	\$	_	\$	_	\$	7.5
Securitizations		2.1	0.1		1.3		1.6		_		0.8		1.0		0.7		5.5
Citibank benchmark senior debt		_	_		2.6		_		_		_		_		_		2.6
Local country and other		0.4	0.5		1.0		0.2		0.3		_		0.3		1.2		3.5
Total bank	\$	4.8	\$ 2.6	\$	7.9	\$	4.3	\$	0.3	\$	0.8	\$	1.3	\$	1.9	\$	19.1
Total long-term debt	\$	35.9	\$ 15.6	\$	39.4	\$	38.5	\$	35.8	\$	21.3	\$	25.8	\$	98.1	\$	274.5

# Secured Funding Transactions and Short-Term Borrowings

Citi supplements its primary sources of funding with shortterm financings that generally include (i) secured funding transactions consisting of securities loaned or sold under agreements to repurchase, i.e., repos, and (ii) to a lesser extent, short-term borrowings consisting of commercial paper and borrowings from the FHLB and other market participants.

## Secured Funding Transactions

Secured funding is primarily accessed through Citi's brokerdealer subsidiaries, with a smaller portion executed through Citi's bank entities to efficiently fund both (i) secured lending activity and (ii) a portion of the securities inventory held in the context of market making and customer activities. Secured funding transactions are predominantly collateralized by government debt securities. Generally, changes in the level of Citi's secured funding are primarily due to fluctuations in secured lending activity in the matched book (as described below) and changes in securities inventory. In order to maintain reliable funding under a wide range of market conditions, Citi manages risks related to its secured funding by establishing secured funding limits and conducting daily stress tests that account for risks related to capacity, tenor, haircut, collateral type, counterparty and client actions.

Secured funding of \$260 billion as of June 30, 2023 increased 31% year-over-year and 1% sequentially, largely driven by additional financing to support increases in tradingrelated assets within Citi's broker-dealer subsidiaries. As of the quarter ended June 30, 2023, on an average basis, secured funding was \$262 billion. The portion of secured funding in the broker-dealer subsidiaries that funds secured lending is commonly referred to as "matched book" activity and is primarily secured by high-quality liquid securities such as U.S. Treasury securities, U.S. agency securities and foreign government debt securities. Other "matched book" activity is secured by less liquid securities, including equity securities, corporate bonds and asset-backed securities, the tenor of which is generally equal to or longer than the tenor of the corresponding assets. As indicated above, the remaining portion of secured funding is used to fund securities inventory held in the context of market making and customer activities.

# Short-Term Borrowings

Citi's short-term borrowings of \$40 billion as of the second quarter of 2023 was largely unchanged both year-over-year and sequentially (see Note 17 for further information on Citigroup's and its affiliates' outstanding short-term borrowings).

#### **Credit Ratings**

The table below presents the ratings for Citigroup and Citibank as of June 30, 2023. While not included in the table below, the long-term and short-term ratings of Citigroup Global Markets Holdings Inc. (CGMHI) were A+/F1 at Fitch, A2/P-1 at Moody's Investors Service and A/A-1 at S&P Global Ratings as of June 30, 2023.

#### Ratings as of June 30, 2023

	(	Citigroup In	ic.	Citibank, N.A.			
	Long- term	Short- term	Outlook	Long- term	Short- term	Outlook	
Fitch Ratings (Fitch)	Α	F1	Stable	A+	F1	Stable	
Moody's Investors Service (Moody's)	A3	P-2	Stable	Aa3	P-1	Stable	
S&P Global Ratings (S&P)	BBB+	A-2	Stable	A+	A-1	Stable	

### Potential Impacts of Ratings Downgrades

Ratings downgrades by Fitch, Moody's or S&P could negatively impact Citigroup's and/or Citibank's funding and liquidity due to reduced funding capacity, including derivative triggers, which could take the form of cash obligations and collateral requirements.

For additional information on the impact of credit rating changes on Citi and its applicable subsidiaries, see "Risk Factors—Liquidity Risks" and "Credit Ratings" in Citi's 2022 Form 10-K.

*Citigroup Inc. and Citibank—Potential Derivative Triggers* As of June 30, 2023, Citi estimates that a hypothetical onenotch downgrade of the senior debt/long-term rating of Citigroup Inc. across all three major rating agencies could impact Citigroup's funding and liquidity due to derivative triggers by approximately \$0.4 billion, compared to \$0.3 billion as of March 31, 2023. Other funding sources, such as secured funding transactions and other margin requirements, for which there are no explicit triggers, could also be adversely affected.

As of June 30, 2023, Citi estimates that a hypothetical one-notch downgrade of the senior debt/long-term rating of Citibank across all three major rating agencies could impact Citibank's funding and liquidity due to derivative triggers by approximately \$0.4 billion, compared to \$0.3 billion as of March 31, 2023. Other funding sources, such as secured funding transactions and other margin requirements, for which there are no explicit triggers, could also be adversely impacted.

In total, as of June 30, 2023, Citi estimates that a onenotch downgrade of Citigroup Inc. and Citibank across all three major rating agencies could result in increased aggregate cash obligations and collateral requirements of approximately \$0.8 billion, compared to \$0.6 billion as of March 31, 2023 (see also Note 21). As detailed under "High-Quality Liquid Assets (HQLA)" above, Citigroup has various liquidity resources available to its bank and non-bank entities in part as a contingency for the potential events described above.

#### Citibank—Additional Potential Impacts

In addition to the above derivative triggers, Citi believes that a potential downgrade of Citibank's senior debt/long-term rating across any of the three major rating agencies could also have an adverse impact on the commercial paper/short-term rating of Citibank. Citibank has provided liquidity commitments to consolidated asset-backed commercial paper conduits, primarily in the form of asset purchase agreements. As of June 30, 2023, Citibank had liquidity commitments of approximately \$10.9 billion to consolidated asset-backed commercial paper conduits, which was largely unchanged from March 31, 2023 (see Note 20 for additional information).

In addition to the above-referenced liquidity resources of certain Citibank entities, Citibank could reduce the funding and liquidity risk, if any, of the potential downgrades described above through mitigating actions, including repricing or reducing certain commitments to commercial paper conduits. In the event of the potential downgrades described above, Citi believes that certain corporate customers could reevaluate their deposit relationships with Citibank. This reevaluation could result in clients adjusting their discretionary deposit levels or changing their depository institution, which could potentially reduce certain deposit levels at Citibank. However, Citi could choose to adjust pricing, offer alternative deposit products to its existing customers or seek to attract deposits from new customers, in addition to the mitigating actions referenced above.

# MARKET RISK

Market risk arises from both Citi's trading and non-trading portfolios. For additional information on market risk and market risk management at Citi, see "Market Risk— Overview" and "Risk Factors" in Citi's 2022 Form 10-K.

#### **Market Risk of Non-Trading Portfolios**

Market risk from non-trading portfolios stems predominantly from the potential impact of changes in interest rates and foreign exchange rates on Citi's net interest income and on Citi's *Accumulated other comprehensive income (loss) (AOCI)* from its investment securities portfolios. Market risk from non-trading portfolios also includes the potential impact of changes in foreign exchange rates on Citi's capital invested in foreign currencies.

#### **Banking Book Interest Rate Risk**

For interest rate risk purposes, Citi's non-trading portfolios are referred to as the Banking Book. Management of interest rate risk in the Banking Book is governed by Citi's Non-Trading Market Risk Policy. Management's Asset & Liability Committee (ALCO) establishes Citi's risk appetite and related limits for interest rate risk in the Banking Book, which are subject to approval by Citigroup's Board of Directors. Corporate Treasury is responsible for the day-to-day management of Citi's Banking Book interest rate risk as well as periodically reviewing it with the ALCO. Citi's Banking Book interest rate risk management is also subject to independent oversight from the second line of defense team reporting to the Chief Risk Officer.

Changes in interest rates impact Citi's net income, *AOCI* and CET1. These changes primarily affect Citi's Banking Book through net interest income, due to a variety of risk factors, including:

- Differences in timing and amounts of the maturity or repricing of assets, liabilities and off-balance sheet instruments;
- Changes in the level and/or shape of interest rate curves;
- Client behavior in response to changes in interest rates (e.g., mortgage prepayments, deposit betas); and
- Changes in the maturity of instruments resulting from changes in the interest rate environment.

As part of their ongoing activities, Citi's businesses generate interest rate-sensitive positions from their clientfacing products, such as loans and deposits. The component of this interest rate risk that can be hedged is transferred via Citi's funds transfer pricing process to Corporate Treasury. Corporate Treasury uses various tools to manage the total interest rate risk position within the established risk appetite and target Citi's desired risk profile, including its investment securities portfolio, company-issued debt and interest rate derivatives. In addition, Citi uses multiple metrics to measure its Banking Book interest rate risk. Interest Rate Exposure (IRE) is a key metric that analyzes the impact of a range of scenarios on Citi's Banking Book net interest income and certain other interest rate-sensitive income versus a base case. IRE does not represent a forecast of Citi's net interest income.

The scenarios, methodologies and assumptions used in this analysis are periodically evaluated and enhanced in response to changes in the market environment, changes in Citi's balance sheet composition, enhancements in Citi's modeling and other factors.

Since the third quarter of 2022, Citi has employed enhanced IRE methodologies and changes to certain assumptions. The changes included, among other things, assumptions around the projected balance sheet and revisions to the treatment of certain business contributions (notably accrual positions in *ICG*'s Markets businesses). These changes resulted in a higher impact to Citi's net interest income over a 12-month period.

Under the enhanced methodology, Citi utilizes the most recent quarter-end balance sheet, assuming no changes to its composition and size over the forecasted horizon (holding the balance sheet static). The forecasts incorporate expectations and assumptions of deposit pricing, loan spreads and mortgage prepayment behavior implied by the interest rate curves in each scenario. The base case scenario reflects the market implied forward interest rates, and sensitivity scenarios assume instantaneous shocks to the base case. The forecasts do not assume Citi takes any risk-mitigating actions in response to changes in the interest rate environment. Certain interest rates are subject to flooring assumptions in downward rate scenarios. Deposit pricing sensitivities (i.e., deposit betas), are informed by historical and expected behavior. Actual deposit pricing could differ from the assumptions used in these forecasts.

Citi's IRE analysis primarily reflects the impacts from the following Banking Book assets and liabilities: loans, client deposits, Citi's deposits with other banks, investment securities, long-term debt, any related interest rate hedges and the funds transfer pricing of positions in total trading and credit portfolio value at risk (VAR). It excludes impacts from any positions that are included in total trading and credit portfolio VAR.

In addition to IRE, Citi analyzes economic value sensitivity (EVS) as a longer-term interest rate risk metric. EVS is a net present value (NPV)–based measure of the lifetime cash flows of Citi's Banking Book. It estimates the interest rate sensitivity of the Banking Book's economic value from longer-term assets being potentially funded with shorterterm liabilities, or vice versa. Citi manages EVS within risk limits approved by Citigroup's Board of Directors that are aligned with Citi's interest rate risk appetite.

# Interest Rate Risk of Investment Portfolios—Impact on *AOCI*

Citi also measures the potential impacts of changes in interest rates on the value of its *AOCI*, which can in turn impact Citi's common equity and tangible common equity. This will impact Citi's CET1 and other regulatory capital ratios. Citi seeks to manage its exposure to changes in the market level of interest rates, while limiting the potential impact on its *AOCI* and regulatory capital position.

*AOCI* at risk is managed as part of the Company-wide interest rate risk position. *AOCI* at risk considers potential

changes in *AOCI* (and the corresponding impact on the CET1 Capital ratio) relative to Citi's capital generation capacity.

Citi uses 100 basis point (bps) shocks in each scenario to reflect its net interest income sensitivity to unanticipated changes in market interest rates, as potential monetary policy decisions and changes in economic conditions may be reflected in current market implied forward rates. The following table presents the 12-month estimated impact to Citi's net interest income, *AOCI* and the CET1 Capital ratio, each assuming an unanticipated parallel instantaneous 100 bps increase in interest rates:

In millions of dollars, except as otherwise noted	Ju	n. 30, 2023	N	Mar. 31, 2023	J	fun. 30, 2022
Parallel interest rate shock +100 bps						
Interest rate exposure <sup>(1)(2)</sup>						
U.S. dollar	\$	(55)	\$	304	\$	605
All other currencies		1,468		1,361		2,185
Total	\$	1,413	\$	1,665	\$	2,790
As a percentage of average interest-earning assets		0.06 %	6	0.07 %	6	0.11 %
Estimated initial negative impact to AOCI (after-tax) <sup>(3)</sup>	\$	(1,416)	\$	(1,557)	\$	(2,522)
Estimated initial impact on CET1 Capital ratio (bps) from AOCI scenario		(12)		(11)		(10)

(1) Excludes trading book and fair value option banking book portfolios and replaces them with the associated transfer pricing.

(2) IRE as of June 30, 2022 does not reflect certain IRE methodology enhancements that were subsequently implemented in September 2022, most notably the Banking Book revisions to the treatment of certain business activities.

(3) Includes the effect of changes in interest rates on AOCI related to investment securities, cash flow hedges and pension liability adjustments.

The "All other currencies" of \$1,468 million as of June 30, 2023 in the table above includes the impact from the following top six non-U.S. dollar currencies, which represents nearly 50% of the total non-U.S. dollar currency impact: approximately \$0.2 billion from British pound sterling, and approximately \$0.1 billion each from Japanese yen, Singapore dollar, Taiwan dollar, Indian rupee and Swiss franc. These impacts per currency are generally in the same direction (estimated positive impact in the +100 bps shock scenario) and not offsetting.

Citi's balance sheet is asset sensitive (assets reprice faster than liabilities), resulting in higher net interest income in increasing interest rate scenarios. The estimated impact to Citi's net interest income in a 100 bps upward rate shock scenario as of the second quarter of 2023 decreased quarterover-quarter and year-over-year, primarily due to changes in deposit composition and levels, partially offset by hedging actions. At progressively higher interest rate levels, the marginal net interest income benefit is lower, as Citi assumes it will pass on a larger share of rate changes to depositors (i.e., higher betas), further reducing Citi's IRE sensitivity. Currency-specific interest rate changes and balance sheet factors may drive quarter-to-quarter volatility in Citi's estimated IRE.

In a 100 bps upward rate shock scenario, Citi expects that the approximate \$1.4 billion initial negative impact to *AOCI* could potentially be offset in shareholders' equity through the expected recovery of the impact on *AOCI* through accretion of Citi's investment portfolio and expected net interest income benefit over a period of approximately six months.

#### **Scenario Analysis**

The following table presents the estimated impact to Citi's net interest income, *AOCI* and CET1 Capital ratio (on a fully implemented basis) under six different scenarios of changes in interest rates for the U.S. dollar and all other currencies in which Citi has invested capital as of June 30, 2023. The interest rate scenarios are also impacted by convexity related to mortgage products.

In millions of dollars, except as otherwise noted	Sc	enario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6
Overnight rate change (bps)		100	100	_	_	(100)	(100)
10-year rate change (bps)		100	_	100	(100)	_	(100)
Interest rate exposure							
U.S. dollar	\$	(55) \$	\$ (95)	\$ 38	\$ (67)	\$ (10)	\$ (93)
All other currencies <sup>(1)</sup>		1,468	1,262	210	(190)	(1,152)	(1,348)
Total	\$	1,413	\$ 1,167	\$ 248	\$ (257)	\$ (1,162)	\$ (1,441)
Estimated initial impact to AOCI (after-tax) <sup>(2)</sup>	\$	(1,416) \$	\$ (1,242)	\$ (191)	\$ 90	\$ 1,237	\$ 1,353
Estimated initial impact to CET1 Capital ratio (bps) from <i>AOCI</i> scenario		(12)	(8)	(4)	3	8	12

Note: Each scenario assumes that the rate change will occur instantaneously. Changes in interest rates for maturities between the overnight rate and the 10-year rate are interpolated. The interest rate exposure in the table above assumes no change in deposit size or mix from the baseline forecast included in the different interest scenarios presented. As a result, in higher interest rate scenarios, customer activity resulting in a shift from non-interest-bearing and low interest rate deposit products to higher-yielding deposits would reduce the expected benefit to net interest rate deposit products would reduce the expected benefit and low interest rate deposit products would reduce the expected decrease to net interest income.

(1) Scenario 1 includes the impact from the following top six non-U.S. dollar currencies, which represents nearly 50% of the total non-U.S. dollar currency impact: approximately \$0.2 billion from British pound sterling, and approximately \$0.1 million each from Japanese yen, Singapore dollar, Taiwan dollar, Indian rupee and Swiss franc. These impacts per currency are generally in the same direction (estimated positive impact in the +100 bps shock scenario) and not offsetting.

(2) Includes the effect of changes in interest rates on AOCI related to investment securities, cash flow hedges and pension liability adjustments.

As shown in the table above, the estimated impact to Citi's net interest income is larger under Scenario 2 than Scenario 3, as Citi's Banking Book has relatively higher interest rate exposure to the short end of the yield curve. For non-U.S. dollar currencies, exposure to downward rate shocks is smaller in magnitude as a result of Citi's flooring assumption, given low rate levels for certain non-U.S. dollar currencies.

The magnitude of the impact to *AOCI* is greater under Scenario 2 compared to Scenario 3. This is because the combination of changes to Citi's investment portfolio, partially offset by changes related to Citi's pension liabilities, results in a net position that is more sensitive to rates at shorter- and intermediate-term maturities.

# Changes in Foreign Exchange Rates—Impacts on *AOCI* and Capital

As of June 30, 2023, Citi estimates that an unanticipated parallel instantaneous 5% appreciation of the U.S. dollar against all of the other currencies in which Citi has invested capital could reduce Citi's tangible common equity (TCE) by approximately \$1.7 billion, or 0.96%, as a result of changes to Citi's CTA in *AOCI*, net of hedges. This impact would be primarily due to changes in the value of the Mexican peso, Euro and Indian rupee.

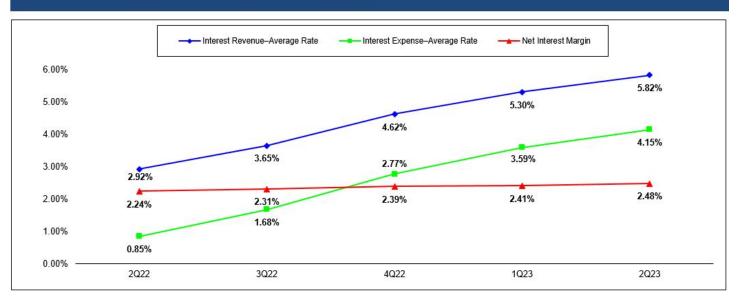
This impact is also before any mitigating actions Citi may take, including ongoing management of its foreign currency translation exposure. Specifically, as currency movements change the value of Citi's net investments in foreign currencydenominated capital, these movements also change the value of Citi's risk-weighted assets denominated in those currencies. This, coupled with Citi's foreign currency hedging strategies, such as foreign currency borrowings, foreign currency forwards and other currency hedging instruments, lessens the impact of foreign currency movements on Citi's CET1 Capital ratio. Changes in these hedging strategies, as well as hedging costs, divestitures and tax impacts, can further affect the actual impact of changes in foreign exchange rates on Citi's capital compared to an unanticipated parallel shock, as described above.

The effect of Citi's ongoing management strategies with respect to quarterly changes in foreign exchange rates, and the quarterly impact of these changes on Citi's TCE and CET1 Capital ratio, are shown in the table below. See Note 18 for additional information on the changes in *AOCI*.

		For	the quarter end	led
In millions of dollars, except as otherwise noted	Jun.	30, 2023	Mar. 31, 2023	Jun. 30, 2022
Change in FX spot rate <sup>(1)</sup>		(0.2)%	1.5 %	(4.9)%
Change in TCE due to FX translation, net of hedges	\$	(98)	\$ 636	\$ (1,335)
As a percentage of TCE		(0.1)%	0.4 %	(0.9)%
Estimated impact to CET1 Capital ratio (on a fully implemented basis) due to changes in FX translation, net of hedges (bps)			1	5

(1) FX spot rate change is a weighted average based on Citi's quarterly average GAAP capital exposure to foreign countries.





In millions of dollars, except as otherwise noted	2nd Qtr. 2023	1st Qtr. 2023	2nd Qtr. 2022	Change 2Q23 vs. 2Q	22
Interest revenue <sup>(1)</sup>	\$ 32,660	\$ 29,439	\$ 15,674	108 %	, D
Interest expense <sup>(2)</sup>	18,747	16,047	3,666	411	
Net interest income, taxable equivalent basis <sup>(1)</sup>	\$ 13,913	\$ 13,392	\$ 12,008	16 %	, D
Interest revenue—average rate <sup>(3)</sup>	5.82 %	5.30 %	2.92 %	290	bps
Interest expense—average rate	4.15	3.59	0.85	330	bps
Net interest margin <sup>(3)(4)</sup>	2.48	2.41	2.24	24	bps
Interest rate benchmarks					
Two-year U.S. Treasury note-average rate	4.26 %	4.34 %	2.72 %	154	bps
10-year U.S. Treasury note-average rate	3.60	3.65	2.93	67	bps
10-year vs. two-year spread	(66) bps	69) bps	s 21 bps		

(1) Interest revenue and Net interest income include the taxable equivalent adjustments primarily related to the tax-exempt bond portfolio and certain tax-advantaged loan programs (based on the U.S. federal statutory tax rate of 21%) of \$13 million, \$44 million and \$44 million for the three months ended June 30, 2023, March 31, 2023 and June 30, 2022, respectively.

(2) Interest expense associated with certain hybrid financial instruments, which are classified as Long-term debt and accounted for at fair value, is reported together with any changes in fair value as part of Principal transactions in the Consolidated Statement of Income and is therefore not reflected in Interest expense in the table above.

(3) The average rate on interest revenue and net interest margin reflects the taxable equivalent gross-up adjustment. See footnote 1 above.

(4) Citi's NIM is calculated by dividing net interest income by average interest-earning assets.

#### Non-ICG Markets Net Interest Income

In millions of dollars	2	2nd Qtr. 2023	1st Qtr. 2023	2nd Qtr. 2022	Change 2Q23 vs. 2Q22
Net interest income-taxable equivalent basis <sup>(1)</sup> per above	\$	13,913	\$ 13,392	\$ 12,008	16 %
ICG Markets net interest income-taxable equivalent basis <sup>(1)</sup>		1,983	1,471	1,358	46
Non-ICG Markets net interest income-taxable equivalent basis <sup>(1)</sup>	\$	11,930	\$ 11,921	\$ 10,650	12 %

(1) Interest revenue and Net interest income include the taxable equivalent adjustments discussed in the table above.

Citi's net interest income in the second quarter of 2023 increased 16% to \$13.9 billion versus the prior-year period. As presented in the table above, Citi's net interest income on a taxable equivalent basis also increased 16% year-over-year, or \$1.9 billion. The increase was driven by higher net interest income in non-*ICG* Markets, which increased 12%, and *ICG* Markets, which increased 46%. The increase in net interest income in non-*ICG* Markets primarily reflected higher interest rates, growth in U.S. cards interest-earning balances and higher income from Citi's investment portfolio, partially offset by the reduction from the exited markets and continued winddowns in *Legacy Franchises*. The increase in *ICG* Markets net interest income was primarily driven by higher interest rates as well as a change in the mix of trading positions in support of client activity.

Citi's net interest margin was 2.48% on a taxable equivalent basis in the second quarter of 2023, an increase of 7 basis points from the prior quarter, primarily driven by the benefits of dividend seasonality in *ICG* Markets and higher interest rates, partially offset by a mix shift to higher cost deposits.

# **Additional Interest Rate Details**

# Average Balances and Interest Rates—Assets<sup>(1)(2)(3)</sup>

# **Taxable Equivalent Basis**

Quarterly—Assets		A	Average balance				In	tere	est revei	ıue		% Average rate				
	2	2nd Qtr.		1st Qtr.		2nd Qtr.	nd Qtr.	1	st Qtr.		nd Qtr.	2nd Qtr.	1st Qtr.	2nd Qtr.		
In millions of dollars, except rates		2023		2023		2022	2023		2023		2022	2023	2023	2022		
Deposits with banks <sup>(4)</sup>	\$	310,047	\$	328,141	\$	227,377	\$ 3,049	\$	3,031	\$	658	3.94 %	3.75 %	1.16 %		
Securities borrowed and purchased under agreements to resell <sup>(5)</sup>																
In U.S. offices	\$	182,676	\$	186,573	\$	190,065	\$ 3,227	\$	2,840	\$	458	7.09 %	6.17 %	0.97 %		
In offices outside the U.S. <sup>(4)</sup>		183,028		181,476		159,455	3,027		2,334		347	6.63	5.22	0.87		
Total	\$	365,704	\$	368,049	\$	349,520	\$ 6,254	\$	5,174	\$	805	6.86 %	5.70 %	0.92 %		
Trading account assets <sup>(6)(7)</sup>																
In U.S. offices	\$	180,214	\$	164,217	\$	139,087	\$ 2,071	\$	1,773	\$	632	4.61 %	4.38 %	1.82 %		
In offices outside the U.S. <sup>(4)</sup>		149,015		134,607		136,850	1,681		975		1,030	4.52	2.94	3.02		
Total	\$	329,229	\$	298,824	\$	275,937	\$ 3,752	\$	2,748	\$	1,662	4.57 %	3.73 %	2.42 %		
Investments																
In U.S. offices																
Taxable	\$	337,957	\$	344,776	\$	357,249	\$ 2,238	\$	2,149	\$	1,132	2.66 %	2.53 %	1.27 %		
Exempt from U.S. income tax		11,577		11,608		11,898	108		116		108	3.74	4.05	3.64		
In offices outside the U.S. <sup>(4)</sup>		158,415		160,140		150,435	2,110		1,894		1,147	5.34	4.80	3.06		
Total	\$	507,949	\$	516,524	\$	519,582	\$ 4,456	\$	4,159	\$	2,387	3.52 %	3.27 %	1.84 %		
Consumer loans <sup>(8)</sup>																
In U.S. offices	\$	289,122	\$	283,493	\$	264,240	\$ 7,294	\$	7,051	\$	5,348	10.12 %	10.09 %	8.12 %		
In offices outside the U.S. <sup>(4)</sup>		78,730		80,176		88,291	1,668		1,573		1,253	8.50	7.96	5.69		
Total	\$	367,852	\$	363,669	\$	352,531	\$ 8,962	\$	8,624	\$	6,601	9.77 %	9.62 %	7.51 %		
Corporate loans <sup>(8)</sup>																
In U.S. offices	\$	135,716	\$	137,733	\$	142,180	\$ 1,791	\$	1,736	\$	1,285	5.29 %	5.11 %	3.63 %		
In offices outside the U.S. <sup>(4)</sup>		150,023		152,335		162,776	3,311		2,951		1,632	8.85	7.86	4.02		
Total	\$	285,739	\$	290,068	\$	304,956	\$ 5,102	\$	4,687	\$	2,917	7.16 %	6.55 %	3.84 %		
Total loans <sup>(8)</sup>																
In U.S. offices	\$	424,838	\$	421,226	\$	406,420	\$ 9,085	\$	8,787	\$	6,633	8.58 %	8.46 %	6.55 %		
In offices outside the U.S. <sup>(4)</sup>		228,753		232,511		251,067	4,979		4,524		2,885	8.73	7.89	4.61		
Total	\$	653,591	\$	653,737	\$	657,487	\$ 14,064	\$	13,311	\$	9,518	8.63 %	8.26 %	5.81 %		
Other interest-earning assets <sup>(9)</sup>	\$	85,083	\$	87,758	\$	121,629	\$ 1,085	\$	1,016	\$	644	5.11 %	4.70 %	2.12 %		
Total interest-earning assets	\$2	2,251,603	\$ 2	2,253,033	\$2	2,151,532	\$ 32,660	\$	29,439	\$	15,674	5.82 %	5.30 %	2.92 %		
Non-interest-earning assets <sup>(6)</sup>	\$	214,011	\$	209,211	\$	228,521										
Total assets	\$2	2,465,614	\$ 2	2,462,244	\$2	2,380,053										

Six Months—Assets	Average	balance	Interest	revenue	% Avera	age rate
	Six Months	Six Months	Six Months	Six Months	Six Months	Six Months
In millions of dollars, except rates	2023	2022	2023	2022	2023	2022
Deposits with banks <sup>(4)</sup>	\$ 319,094	\$ 243,957	\$ 6,080	\$ 954	3.84 %	0.79 %
Securities borrowed and purchased under agreements to resell <sup>(5)</sup>						
In U.S. offices	\$ 184,624	\$ 184,030	\$ 6,067	\$ 567	6.63 %	0.62 %
In offices outside the U.S. <sup>(4)</sup>	182,252	162,548	5,361	632	5.93	0.78
Total	\$ 366,876	\$ 346,578	\$ 11,428	\$ 1,199	6.28 %	0.70 %
Trading account assets <sup>(6)(7)</sup>						
In U.S. offices	\$ 172,215	\$ 137,972	\$ 3,844	\$ 1,224	4.50 %	1.79 %
In offices outside the U.S. <sup>(4)</sup>	141,811	135,227	2,656	1,586	3.78	2.37
Total	\$ 314,026	\$ 273,199	\$ 6,500	\$ 2,810	4.17 %	2.07 %
Investments						
In U.S. offices						
Taxable	\$ 341,366	\$ 355,577	\$ 4,387	\$ 2,153	2.59 %	1.22 %
Exempt from U.S. income tax	11,593	11,755	224	203	3.90	3.48
In offices outside the U.S. <sup>(4)</sup>	159,278	151,869	4,004	2,098	5.07	2.79
Total	\$ 512,237	\$ 519,201	\$ 8,615	\$ 4,454	3.39 %	1.73 %
Consumer loans <sup>(8)</sup>						
In U.S. offices	\$ 286,307	\$ 260,748	\$ 14,345	\$ 10,393	10.10 %	8.04 %
In offices outside the U.S. <sup>(4)</sup>	79,453	91,632	3,241	2,470	8.23	5.44
Total	\$ 365,760	\$ 352,380	\$ 17,586	\$ 12,863	9.70 %	7.36 %
Corporate loans <sup>(8)</sup>						
In U.S. offices	\$ 136,725	\$ 139,528	\$ 3,527	\$ 2,397	5.20 %	3.46 %
In offices outside the U.S. <sup>(4)</sup>	151,179	161,123	6,262	2,997	8.35	3.75
Total	\$ 287,904	\$ 300,651	\$ 9,789	\$ 5,394	6.86 %	3.62 %
Total loans <sup>(8)</sup>						
In U.S. offices	\$ 423,032	\$ 400,276	\$ 17,872	\$ 12,790	8.52 %	6.44 %
In offices outside the U.S. <sup>(4)</sup>	230,632	252,755	9,503	5,467	8.31	4.36
Total	\$ 653,664	\$ 653,031	\$ 27,375	\$ 18,257	8.45 %	5.64 %
Other interest-earning assets <sup>(9)</sup>	\$ 86,421	\$ 120,722	\$ 2,101	\$ 1,193	4.90 %	1.99 %
Total interest-earning assets	\$ 2,252,318	\$2,156,688	\$ 62,099	\$ 28,867	5.56 %	2.70 %
Non-interest-earning assets <sup>(6)</sup>	\$ 211,611	\$ 220,359				
Total assets	\$ 2,463,929	\$2,377,047				

(1) Interest revenue and Net interest income include the taxable equivalent adjustments primarily related to the tax-exempt bond portfolio and certain tax-advantaged loan programs (based on the U.S. federal statutory tax rate of 21%) of \$13 million, \$44 million and \$44 million for the three months ended June 30, 2023, March 31, 2023 and June 30, 2022, respectively, and \$57 million and \$86 million for the six months ended June 30, 2022, respectively.

(2) Interest rates and amounts include the effects of risk management activities associated with the respective asset categories.

(3) Monthly or quarterly averages have been used by certain subsidiaries where daily averages are unavailable.

(4) Average rates reflect prevailing local interest rates, including inflationary effects and monetary corrections in certain countries.

(5) Average volumes of securities borrowed or purchased under agreements to resell are reported net pursuant to ASC 210-20-45. However, *Interest revenue* excludes the impact of ASC 210-20-45.

(6) The fair value carrying amounts of derivative contracts are reported net, pursuant to ASC 815-10-45, in *Non-interest-earning assets* and *Other non-interest-bearing liabilities*.

(7) Interest expense on Trading account liabilities of ICG is reported as a reduction of Interest revenue. Interest revenue and Interest expense on cash collateral positions are reported in interest on Trading account assets and Trading account liabilities, respectively.

(8) Net of unearned income. Includes cash-basis loans.

(9) Includes assets from businesses held-for-sale (see Note 2) and Brokerage receivables.

# Taxable Equivalent Basis

Quarterly—Liabilities	A	ver	age balan	ce		In	ter	est expe	nse		% Average rate				
	2nd Qtr.		1st Qtr.	2nd Qtr.	2	nd Qtr.	1	1st Qtr.		nd Qtr.	2nd Qtr.	-	2nd Qtr.		
In millions of dollars, except rates	2023		2023	2022		2023		2023		2022	2023	2023	2022		
Deposits															
In U.S. offices <sup>(4)</sup>	\$ 595,476	\$	,	\$ 554,182			\$	4,432	\$	545	3.36 %	2.98 %			
In offices outside the U.S. <sup>(5)</sup>	536,735		543,179	513,820	-	3,744		3,276		875	2.80	2.45	0.68		
Total	\$ 1,132,211	\$	1,147,176	\$1,068,002	\$	8,727	\$	7,708	\$	1,420	3.09 %	2.72 %	0.53 %		
Securities loaned and sold under agreements to repurchase <sup>(6)</sup>															
In U.S. offices	\$ 170,226	\$	131,235	\$ 112,011	\$	3,084	\$	2,232	\$	391	7.27 %	6.90 %	1.40 %		
In offices outside the U.S. <sup>(5)</sup>	91,921		92,473	96,388		1,869		1,334		264	8.16	5.85	1.10		
Total	\$ 262,147	\$	223,708	\$ 208,399	\$	4,953	\$	3,566	\$	655	7.58 %	6.46 %	1.26 %		
Trading account liabilities <sup>(7)(8)</sup>															
In U.S. offices	\$ 50,429	\$	52,236	\$ 52,714	\$	479	\$	412	\$	24	3.81 %	3.20 %	0.18 %		
In offices outside the U.S. <sup>(5)</sup>	77,925		77,125	72,096		391		375		113	2.01	1.97	0.63		
Total	\$ 128,354	\$	129,361	\$ 124,810	\$	870	\$	787	\$	137	2.72 %	2.47 %	0.44 %		
Short-term borrowings and other interest-bearing liabilities <sup>(9)</sup>															
In U.S. offices	\$ 86,990	\$	96,092	\$ 94,028	\$	1,608	\$	1,482	\$	217	7.41 %	6.25 %	0.93 %		
In offices outside the U.S. <sup>(5)</sup>	39,744		47,930	60,211		169		167		51	1.71	1.41	0.34		
Total	\$ 126,734	\$	144,022	\$ 154,239	\$	1,777	\$	1,649	\$	268	5.62 %	4.64 %	0.70 %		
Long-term debt <sup>(10)</sup>															
In U.S. offices	\$ 159,803	\$	167,852	\$ 164,832	\$	2,367	\$	2,285	\$	1,143	5.94 %	5.52 %	2.78 %		
In offices outside the U.S. <sup>(5)</sup>	2,524		2,681	3,892		53		52		43	8.42	7.87	4.43		
Total	\$ 162,327	\$	170,533	\$ 168,724	\$	2,420	\$	2,337	\$	1,186	5.98 %	5.56 %	2.82 %		
Total interest-bearing liabilities	\$ 1,811,773	\$	1,814,800	\$1,724,174	\$	18,747	\$	16,047	\$	3,666	4.15 %	3.59 %	0.85 %		
Demand deposits in U.S. offices	\$ 113,639	\$	120,670	\$ 143,426											
Other non-interest-bearing liabilities <sup>(7)</sup>	331,119		322,464	313,926											
Total liabilities	\$ 2,256,531	\$ 2	2,257,934	\$2,181,526											
Citigroup stockholders' equity	\$ 208,459	\$	203,727	\$ 197,976	1										
Noncontrolling interests	624		583	551											
Total equity	\$ 209,083	\$	204,310	\$ 198,527											
Total liabilities and stockholders' equity	\$ 2,465,614	\$ 2	2,462,244	\$2,380,053											
Net interest income as a percentage of average interest-earning assets <sup>(11)</sup>															
In U.S. offices	\$ 1,336,146	\$	1,340,929	\$1,247,713	\$	6,961	\$	7,455	\$	7,070	2.09 %	2.25 %	2.27 %		
In offices outside the U.S. <sup>(6)</sup>	915,457		912,104	903,819		6,952		5,937		4,938	3.05	2.64	2.19		
Total	\$ 2,251,603	\$	2,253,033	\$2,151,532	\$	13,913	\$	13,392	\$	12,008	2.48 %	2.41 %	2.24 %		

Six Months—Liabilities	Averag	e balance	Interest e	xpense	% Average rate			
	Six	Six	Six	Six	Six	Six		
In millions of dollars amont ustos	Months 2023	Months 2022	Months 2023	Months 2022	Months 2023	Months 2022		
In millions of dollars, except rates	2023	2022	2023	2022	2023	2022		
<b>Deposits</b> In U.S. offices <sup>(4)</sup>	\$ 599,736	\$ 557,100	\$ 9,415	\$ 782	3.17 %	0.28 %		
In offices outside the U.S. <sup>(5)</sup>						0.28 %		
	539,957	516,954 \$1,074,054	7,020	1,509	2.62			
Total	\$ 1,139,693	\$1,074,054	\$ 16,435	\$ 2,291	2.91 %	0.43 %		
Securities loaned and sold under agreements to repurchase <sup>(6)</sup>								
In U.S. offices	\$ 150,731	\$ 114,902	\$ 5,316	\$ 552	7.11 %	0.97 %		
In offices outside the U.S. <sup>(5)</sup>	92,197	94,348	3,203	385	7.01	0.82		
Total	\$ 242,928	\$ 209,250	\$ 8,519	\$ 937	7.07 %	0.90 %		
Trading account liabilities <sup>(7)(8)</sup>								
In U.S. offices	\$ 51,333	\$ 50,653	\$ 891	\$ 60	3.50 %	0.24 %		
In offices outside the U.S. <sup>(5)</sup>	77,525	68,908	766	224	1.99	0.66		
Total	\$ 128,858	\$ 119,561	\$ 1,657	\$ 284	2.59 %	0.48 %		
Short-term borrowings and other interest bearing liabilities <sup>(9)</sup>								
In U.S. offices	\$ 91,541	\$ 86,345	\$ 3,090	\$ 230	6.81 %	0.54 %		
In offices outside the U.S. <sup>(5)</sup>	43,837	60,205	336	93	1.55	0.31		
Total	\$ 135,378	\$ 146,550	\$ 3,426	\$ 323	5.10 %	0.44 %		
Long-term debt <sup>(10)</sup>								
In U.S. offices	\$ 163,827	\$ 165,903	\$ 4,652	\$ 2,032	5.73 %	2.47 %		
In offices outside the U.S. <sup>(5)</sup>	2,603	3,923	105	79	8.13	4.06		
Total	\$ 166,430	\$ 169,826	\$ 4,757	\$ 2,111	5.76 %	2.51 %		
Total interest-bearing liabilities	\$ 1,813,287	\$1,719,241	\$ 34,794	\$ 5,946	3.87 %	0.70 %		
Demand deposits in U.S. offices	\$ 117,155	\$ 136,388						
Other non-interest-bearing liabilities <sup>(7)</sup>	326,946	321,748						
Total liabilities	\$ 2,257,388	\$2,177,377						
Citigroup stockholders' equity	\$ 205,937	\$ 199,070						
Noncontrolling interests	604	600						
Total equity	\$ 206,541	\$ 199,670						
Total liabilities and stockholders' equity	\$ 2,463,929	\$2,377,047						
Net interest income as a percentage of average interest-earning assets <sup>(11)</sup>								
In U.S. offices	\$ 1,338,537	\$1,247,385	\$ 14,416	\$ 13,928	2.17 %	2.25 %		
In offices outside the U.S. <sup>(6)</sup>	913,781	909,303	12,889	8,993	2.84	1.99		
Total	\$ 2,252,318	\$2,156,688	\$ 27,305	\$ 22,921	2.44 %	2.14 %		

(1) Interest revenue and Net interest income include the taxable equivalent adjustments discussed in the table above.

(2) Interest rates and amounts include the effects of risk management activities associated with the respective liability categories.

(3) Monthly or quarterly averages have been used by certain subsidiaries where daily averages are unavailable.

(4) Consists of other time deposits and savings deposits. Savings deposits are made up of insured money market accounts, NOW accounts and other savings deposits.

(5) Average rates reflect prevailing local interest rates, including inflationary effects and monetary corrections in certain countries.

(6) Average volumes of securities sold under agreements to repurchase are reported net pursuant to ASC 210-20-45. However, *Interest expense* excludes the impact of ASC 210-20-45.

(7) The fair value carrying amounts of derivative contracts are reported net, pursuant to ASC 815-10-45, in *Non-interest-earning assets* and *Other non-interest-bearing liabilities*.

(8) Interest expense on Trading account liabilities of ICG is reported as a reduction of Interest revenue. Interest revenue and Interest expense on cash collateral positions are reported in interest on Trading account assets and Trading account liabilities, respectively.

(9) Includes Brokerage payables.

(10) Excludes hybrid financial instruments and beneficial interests in consolidated VIEs that are classified as *Long-term debt*, as the changes in fair value for these obligations are recorded in *Principal transactions*.

(11) Includes allocations for capital and funding costs based on the location of the asset.

### **Market Risk of Trading Portfolios**

## Value at Risk (VAR)

Citi believes its VAR model is conservatively calibrated to incorporate fat-tail scaling and the greater of short-term (approximately the most recent month) and long-term (18 months for commodities and three years for others) market volatility. As of June 30, 2023, Citi estimates that the conservative features of the VAR calibration contribute an approximate 48% add-on to what would be a VAR estimated under the assumption of stable and perfectly, normally distributed markets. As of March 31, 2023, the add-on was 65%.

As presented in the table below, Citi's average trading VAR for the second quarter of 2023 decreased 3% quarter-over-quarter, primarily from inventory changes in *ICG* Markets businesses.

## Quarter-end and Average Trading VAR and Trading and Credit Portfolio VAR

In millions of dollars	June 30, 2023	Second Quarter 2023 Average	I	March 31, 2023	First Quarter 2023 Average	June 30, 2022	¢	Second Quarter 2022 Average
Interest rate	\$ 109	\$ 129	\$	172	\$ 131	\$ 122	\$	94
Credit spread	63	69		80	76	69		70
Covariance adjustment <sup>(1)</sup>	(48)	(49)		(55)	(52)	(45)		(45)
Fully diversified interest rate and credit spread <sup>(2)</sup>	\$ 124	\$ 149	\$	197	\$ 155	\$ 146	\$	119
Foreign exchange	20	18		15	19	35		36
Equity	30	22		22	24	25		24
Commodity	29	37		43	36	38		45
Covariance adjustment <sup>(1)</sup>	(91)	(89)		(94)	(93)	(96)		(106)
Total trading VAR—all market risk factors, including general and specific risk (excluding credit portfolios) <sup>(2)</sup>	\$ 112	\$ 137	\$	183	\$ 141	\$ 148	\$	118
Specific risk-only component <sup>(3)</sup>	\$ (15)	\$ (9)	\$	(4)	\$ (6)	\$ 4	\$	(2)
Total trading VAR—general market risk factors only (excluding credit portfolios)	\$ 127	\$ 146	\$	187	\$ 147	\$ 144	\$	120
Incremental impact of the credit portfolio <sup>(4)</sup>	\$ 33	\$ 11	\$	8	\$ 20	\$ 7	\$	17
Total trading and credit portfolio VAR	\$ 145	\$ 148	\$	191	\$ 161	\$ 155	\$	135

(1) Covariance adjustment (also known as diversification benefit) equals the difference between the total VAR and the sum of the VARs tied to each risk type. The benefit reflects the fact that the risks within individual and across risk types are not perfectly correlated and, consequently, the total VAR on a given day will be lower than the sum of the VARs relating to each risk type. The determination of the primary drivers of changes to the covariance adjustment is made by an examination of the impact of both model parameter and position changes.

(2) The total trading VAR includes mark-to-market and certain fair value option trading positions in *ICG*, with the exception of hedges to the loan portfolio, fair value option loans and all CVA exposures. Available-for-sale and accrual exposures are not included.

(3) The specific risk-only component represents the level of equity and fixed income issuer-specific risk embedded in VAR.

(4) The credit portfolio is composed of mark-to-market positions associated with non-trading business units, with the CVA relating to derivative counterparties and all associated CVA hedges. FVA and DVA are not included. The credit portfolio also includes hedges to the loan portfolio, fair value option loans and hedges to the leveraged finance pipeline within capital markets origination in *ICG*.

The table below provides the range of market factor VARs associated with Citi's total trading VAR, inclusive of specific risk:

	Second QuarterFirst Quarter20232023				rter	Second Quarter 2022				
In millions of dollars		Low		High	Low		High		Low	High
Interest rate	\$	102	\$	186	\$ 100	\$	172	\$	79	\$ 123
Credit spread		57		83	67		88		65	78
Fully diversified interest rate and credit spread	\$	116	\$	211	\$ 123	\$	197	\$	105	\$ 147
Foreign exchange		12		24	12		23		32	40
Equity		15		32	3		39		17	40
Commodity		25		47	30		45		33	65
Total trading	\$	107	\$	192	\$ 112	\$	183	\$	102	\$ 148
Total trading and credit portfolio		118		200	125		198		119	155

Note: No covariance adjustment can be inferred from the above table as the high and low for each market factor will be from different close-of-business dates.

The following table provides the VAR for *ICG*, excluding the CVA relating to derivative counterparties, hedges of CVA, fair value option loans and hedges to the loan portfolio:

In millions of dollars	June	30, 2023
Total—all market risk factors, including general and specific risk		
Average—during quarter	\$	134
High—during quarter		184
Low—during quarter		104

## **Regulatory VAR Back-testing**

In accordance with Basel III, Citi is required to perform backtesting to evaluate the effectiveness of its Regulatory VAR model. Regulatory VAR back-testing is the process in which the daily one-day VAR, at a 99% confidence interval, is compared to the buy-and-hold profit and loss (i.e., the profit and loss impact if the portfolio is held constant at the end of the day and re-priced the following day). Buy-and-hold profit and loss represents the daily mark-to-market profit and loss attributable to price movements in covered positions from the close of the previous business day. Buy-and-hold profit and loss excludes realized trading revenue, net interest, fees and commissions, intra-day trading profit and loss and changes in reserves.

Based on a 99% confidence level, Citi would expect two to three days in any one year where buy-and-hold losses exceed the Regulatory VAR. Given the conservative calibration of Citi's VAR model (as a result of taking the greater of short- and long-term volatilities and fat-tail scaling of volatilities), Citi would expect fewer exceptions under normal and stable market conditions. Periods of unstable market conditions could increase the number of back-testing exceptions.

As of June 30, 2023, there was one back-testing exception observed for Citi's Regulatory VAR in the last 12 months.

## **OTHER RISKS**

For additional information regarding other risks, including Citi's management of other risks, see "Managing Global Risk —Other Risks" in Citi's 2022 Form 10-K.

## **LIBOR Transition Risk**

The USD LIBOR bank panel ended on June 30, 2023. The overnight and 12-month USD LIBOR settings have now permanently ceased, and the Financial Conduct Authority is requiring ICE Benchmark Administration to continue publishing one-, three- and six-month USD LIBOR settings using a synthetic methodology, which is based on the relevant CME Term SOFR Reference Rate plus the respective ISDA fixed spread adjustment. These synthetic settings are permanently unrepresentative of the underlying markets they previously sought to measure and are expected to cease on September 30, 2024.

As of June 30, 2023, Citi has transitioned nearly all of its USD LIBOR-referencing contracts to SOFR plus a credit spread adjustment. Remediation was accomplished through a range of methods. With respect to derivatives, most bilateral contracts were remediated through adherence to the ISDA IBOR Fallbacks Protocols or bilateral amendments, and cleared contracts were remediated through conversions completed by central counterparty clearing houses. Most loan contracts were remediated through amendments that provided for either an immediate transition to SOFR or a transition on the first interest payment date immediately following June 30, 2023. With respect to securities, contracts governed by U.S. law transitioned to SOFR by operation of law pursuant to the Adjustable Interest Rate (LIBOR) Act or pursuant to Citi's exercise of discretion as the determining person with the authority to select a replacement rate. Securities contracts not governed by U.S. law were primarily remediated through consent solicitations or Citi's exercise of discretion as the determining person with the authority to select a replacement rate.

As of June 30, 2023, there were a de minimis number of unremediated USD LIBOR-referencing contracts. Most of these contracts relate to non-U.S.-law-governed securities and loans that will temporarily utilize synthetic LIBOR. Citi will continue to focus on remediating its remaining unremediated contracts.

For additional information about Citi's actions to address a transition away from and discontinuance of LIBOR, see "Managing Global Risk—Other Risks—LIBOR Transition Risk" in Citi's First Quarter of 2023 Form 10-Q and 2022 Form 10-K. For information about Citi's LIBOR transition risks, see "Risk Factors—Other Risks" in the 2022 Form 10-K.

## **Country Risk**

## **Top 25 Country Exposures**

The following table presents Citi's top 25 exposures by country (excluding the U.S.) as of June 30, 2023. (Including the U.S., Citi's top 25 exposures by country would represent approximately 98% of Citi's exposure to all countries as of June 30, 2023.)

For purposes of the table, loan amounts are reflected in the country where the loan is booked, which is generally based on the domicile of the borrower. For example, a loan to a Chinese subsidiary of a Switzerland-based corporation will generally be categorized as a loan in China. In addition, Citi has developed regional booking centers in certain countries, most significantly in the United Kingdom (U.K.) and Ireland, in order to more efficiently serve its corporate customers. As an example, with respect to the U.K., only 41% of corporate loans presented in the table below are to U.K. domiciled entities (42% for unfunded commitments), with the balance of the loans predominately to European domiciled counterparties. Approximately 90% of the total U.K. funded loans and 90% of the total U.K. unfunded commitments were investment grade as of June 30, 2023.

Trading account assets and investment securities are generally categorized based on the domicile of the issuer of the security of the underlying reference entity. For additional information on the assets included in the table, see the footnotes to the table below.

In billions of dollars	ICG loans	PBWM loans <sup>(1)</sup>	Legacy Franchises loans	Loans transferred to HFS <sup>(7)</sup>	Other funded <sup>(2)</sup>	Unfunded <sup>(3)</sup>	Net MTM on derivatives/ repos <sup>(4)</sup>	Total hedges (on loans and CVA)	Investment securities <sup>(5)</sup>	Trading account assets <sup>(6)</sup>	Total as of 2Q23	Total as of 1Q23	Total as of 2Q22	Total as a % of Citi as of 2Q23
United Kingdom	\$33.7	\$ 5.1	\$ —	\$ —	\$ 1.6	\$ 41.5	\$ 13.2	\$ (4.6)	\$ 2.9	\$ 4.2	\$97.6	\$93.9	\$ 95.3	5.6 %
Mexico	9.3	0.1	25.9	_	0.3	8.6	3.3	(2.2)	21.3	2.3	68.9	63.5	57.3	4.0
Ireland	15.5	_	_	_	0.1	33.5	0.2	(0.2)	_	0.8	49.9	48.5	50.4	2.9
Hong Kong	8.0	20.5	_	_	0.3	5.7	2.1	(0.7)	10.0	0.1	46.0	44.8	49.1	2.6
Singapore	9.1	18.4	_	_	0.5	5.8	1.2	(0.4)	7.5	1.8	43.9	45.1	47.6	2.5
Brazil	12.8	—	_	—	_	2.9	7.4	(1.1)	8.0	1.0	31.0	32.6	28.5	1.8
India	7.4	_	_	_	0.8	3.7	1.8	(0.5)	8.9	1.5	23.6	24.2	27.7	1.4
South Korea	3.8	—	6.6	_	0.1	2.0	1.2	(0.6)	8.7	0.6	22.4	22.3	25.5	1.3
Germany	0.4	_	_	_	0.1	6.6	6.1	(4.6)	6.3	3.9	18.8	10.3	21.9	1.1
China	5.5	—	0.8	—	0.6	1.4	1.1	(1.2)	8.9	1.1	18.2	18.7	18.8	1.0
Canada	1.7	1.5	_	_	0.1	7.2	1.6	(1.5)	3.2	2.6	16.4	15.1	16.1	0.9
United Arab Emirates	6.3	1.5	—	_	0.3	5.0	0.2	(0.3)	3.1	0.1	16.2	16.3	15.9	0.9
Australia	8.8	0.4	_	_	_	5.5	0.8	(1.4)	0.3	1.3	15.7	16.5	15.2	0.9
Poland	3.0	_	1.5	_	_	2.8	1.3	(0.2)	5.5	0.2	14.1	15.3	13.3	0.8
Taiwan	3.8	—	—	7.7	0.1	1.4	0.4	(0.1)	0.3	0.4	14.0	14.1	14.9	0.8
Japan	1.5	_	—	—	—	3.7	5.3	(2.5)	4.3	0.9	13.2	15.9	12.1	0.8
Jersey	2.2	2.8	—	—	—	6.5	0.1	(0.1)	—	—	11.5	15.4	16.8	0.7
Indonesia	2.2	_	_	0.6	_	1.1	1.4	(0.1)	1.0	0.2	6.4	6.3	5.5	0.4
Italy	0.5	_	—	—		2.1	1.0	(1.8)		3.4	5.2	4.3	2.7	0.3
Philippines	0.6	—	_	—	0.1	0.2	2.3	(0.1)	2.0	0.1	5.2	4.9	5.3	0.3
Luxembourg	0.1	1.1	_	_		—	0.5	(0.2)	3.7	—	5.2	4.4	4.2	0.3
Czech Republic	0.8	_	_	_	_	0.8	2.9	_	0.6	0.1	5.2	3.8	3.6	0.3
Malaysia	1.2	_	_	_	0.1	0.7	0.2	(0.1)	2.7	0.1	4.9	4.9	8.1	0.3
Spain	0.4	_	_	_	_	2.8	0.2	(1.3)	—	2.5	4.6	3.3	3.0	0.3
South Africa	1.5	_	_	_	_	0.7	_	(0.2)	2.3	0.2	4.5	4.6	3.4	0.3
Total as a % o	of Citi's	total exp	osure											32.5 %
Total as a % o	of Citi's	non-U.S.	total expos	ure										90.5 %

(1) *PBWM* loans reflect funded loans, including those related to the Private bank, net of unearned income. As of June 30, 2023, Private bank loans in the table above totaled \$20.2 billion, concentrated in Singapore (\$5.3 billion), the U.K. (\$5.1 billion) and Hong Kong (\$4.5 billion).

(2) Other funded includes other direct exposures such as accounts receivable and investments accounted for under the equity method.

(3) Unfunded exposure includes unfunded corporate lending commitments, letters of credit and other contingencies.

(4) Net mark-to-market (MTM) counterparty risk on OTC derivatives and securities lending/borrowing transactions (repos). Exposures are shown net of collateral and inclusive of CVA. Also includes margin loans.

- (5) Investment securities include debt securities AFS, recorded at fair market value, and debt securities HTM, recorded at amortized cost.
- (6) Trading account assets are shown on a net basis and include issuer risk on cash products and derivative exposure where the underlying reference entity/issuer is located in that country.
- (7) June 30, 2023, March 31, 2023 and June 30, 2022 include Legacy Franchises loans reclassified to HFS as a result of Citi's agreement to sell its consumer banking business in each applicable country. For additional information, see "Legacy Franchises" above and Note 2.

## Russia

## Introduction

In Russia, Citi's remaining wind-down operations are conducted through both its *ICG* and *Legacy Franchises* segments.

As previously disclosed, as of March 31, 2023, Citi ended nearly all of the institutional banking services it offered in Russia, with the remaining services only those necessary to fulfill its remaining legal and regulatory obligations. In addition, *Legacy Franchises* reduced its loan portfolios in Russia by approximately 75%, primarily driven by loan portfolio sales and the signing of a credit card referral agreement. Citi has ceased soliciting any new business or new clients in Russia. Citi will continue to manage its existing legal and regulatory commitments and obligations, as well as support its employees, during this period. For additional information, see "Citi's Wind-Down of Its Russia Operations" below. Citi continues to monitor the war in Ukraine, related sanctions and economic conditions and continues to mitigate its Russia exposures and risks as appropriate.

For additional information about Citi's risks related to its Russia exposures, see "Forward-Looking Statements" below and "Risk Factors—Market-Related Risk," "—Operational Risks" and "—Other Risks" in Citi's 2022 Form 10-K.

## Impact of Russia's Invasion of Ukraine on Citi's Businesses

### Russia-related Balance Sheet Exposures

Citi's remaining domestic operations in Russia are conducted through a subsidiary of Citibank, AO Citibank, which uses the Russian ruble as its functional currency.

The following table summarizes Citi's exposures related to its Russia operations:

In billions of U.S. dollars	June 30, 2023	March 31, 2023	June 30, 2022	Change 2Q23 vs. 1Q23
Loans	\$ 0.3	\$ 0.4	\$ 2.5	\$ (0.1)
Investment securities <sup>(1)</sup>	0.6	1.0	1.5	(0.4)
Net MTM on derivatives/repos <sup>(2)</sup>	2.0	1.0	1.3	1.0
Total hedges (on loans and CVA)	(0.1)	(0.1)	(0.2)	
Unfunded <sup>(3)</sup>	_	0.1	0.3	(0.1)
Trading accounts assets	_		0.1	—
Country risk exposure	\$ 2.8	\$ 2.4	\$ 5.5	\$ 0.4
Cash on deposit and placements <sup>(4)</sup>	0.9	0.9	2.5	
Deposit Insurance Agency <sup>(5)</sup>	2.8		_	2.8
National Settlements Depository <sup>(5)</sup>	_	2.7	_	(2.7)
Total third-party exposure <sup>(6)</sup>	\$ 6.5	\$ 6.0	\$ 8.0	\$ 0.5
Additional exposures to Russian counterparties that are not held by the Russian subsidiary	0.1	0.1	0.4	_
Total Russia exposure <sup>(7)</sup>	\$ 6.6	\$ 6.1	\$ 8.4	\$ 0.5

(1) Investment securities include debt securities AFS, recorded at fair market value, primarily local government debt securities.

(2) Reverse repurchase agreements are shown gross of collateral and are included in net MTM on derivatives/repos in the table above, as netting of collateral for Russia-related reverse repurchase agreements was removed in the second quarter of 2022. This removal was due to the inability to conclude, with a well-founded basis, the enforceability of contractual rights in the Russian legal system in the event of a counterparty default, given the geopolitical uncertainty caused by the war in Ukraine.

(3) Unfunded exposure consists of unfunded corporate lending commitments, letters of credit and other contingencies.

(4) Cash on deposit and placements are primarily with the Central Bank of Russia.

(5) Represents dividends received by Citi in its role as custodian for investor clients in Russia, which Citi is required by local regulation to hold at the Deposit Insurance Agency (DIA). In accordance with a Central Bank of Russia regulatory requirement, all balances in the National Settlements Depository were transferred to the DIA. Citi is unable to remit these funds to clients due to restrictions imposed by the Russian government.

(6) The majority of AO Citibank's third-party exposures was funded with the dividends under footnote 5 and domestic deposit liabilities from both corporate and personal banking clients.

(7) Citigroup's CTA loss included in its AOCI related to its indirect subsidiary, AO Citibank, is excluded from the above table, because the CTA loss is not held in AO Citibank and would be recognized in Citigroup's earnings only upon either the substantial liquidation or a loss of control of AO Citibank. Citi has separately described these risks in "Deconsolidation Risk" below. During the second quarter of 2023, Citi's Russia-related exposures increased by \$0.5 billion, as shown in the table above. The increase in exposure was driven by \$1.7 billion of dividends that Citi received as custodian for investor clients in Russia and is unable to remit due to Russian regulatory restrictions (trapped dividends), partially offset by deposit outflows as well as a \$0.6 billion depreciation of the ruble against the U.S. dollar. A portion (\$1 billion, net of ruble depreciation) of these dividends were placed in reverse repurchase agreements. Roughly 65% of Citi's remaining Russia exposures are the trapped dividends discussed above.

Citi's continued risk mitigation efforts have included *ICG* borrower paydowns and limiting extensions of new credit.

Citi's net investment in Russia was approximately \$1.1 billion as of June 30, 2023 (compared to \$1.2 billion at March 31, 2023). Citi hedges its ruble/USD spot FX exposure in *AOCI* through the purchase of FX derivatives. The ongoing mark-to-market of the hedging derivatives is also reported in *AOCI*. When the ruble depreciates against the USD, the USD equivalent value of Citigroup's investment in AO Citibank also declines. This change in value is offset by the change in value of the hedging instrument (FX derivative). Going forward, Citi may record devaluations on its net rubledenominated assets in earnings, without the benefit from a change in the fair value of derivative positions used to economically hedge the exposures.

## Earnings and Other Impacts on Citi's Businesses

Citi's *ICG*, *PBWM* and *Legacy Franchises* segments and *Corporate/Other* have been impacted by various macroeconomic factors and volatilities, including Russia's invasion of Ukraine and its direct and indirect impact on the European and global economies. For a broader discussion of these factors and volatilities on Citi's businesses, see "Executive Summary" and each business's results of operations above.

As of June 30, 2023, Citigroup's ACL included a \$0.2 billion remaining credit reserve for Citi's direct and indirect Russian counterparties (unchanged from March 31, 2023).

## Citi's Wind-Down of Its Russia Operations

During 2022, Citi disclosed its decision to wind down its Russia consumer, local commercial and institutional banking businesses, including actively pursuing portfolio sales. In connection with this wind-down, Citi currently expects to incur approximately \$180 million (compared to \$210 million at March 31, 2023) in total estimated charges (\$40 million in ICG and \$140 million in Legacy Franchises, excluding the impact from any portfolio sales), largely driven by restructuring, vendor termination fees and other related charges. Citi's previously disclosed referral agreement with a Russian bank to settle a portfolio of ruble-denominated credit card loans, subject to customer consent, was signed in May 2023 and is in the execution phase. The outstanding amount with Citi is to be settled upon referral and refinancing. As a result, the credit card loans will remain held-for-investment and are not transferred to held-for-sale. For additional information about Citi's continued efforts to reduce its operations and exposure in Russia, see Note 2 and "Risk

Factors" and "Managing Global Risk—Other Risks—Country Risk—Russia" in Citi's 2022 Form 10-K.

## **Deconsolidation Risk**

Citi's remaining operations in Russia subject it to various risks, including, among others, foreign currency volatility, including appreciation or devaluation; restrictions arising from retaliatory Russian laws and regulations on the conduct of its business; sanctions or asset freezes; or other deconsolidation events (for additional information, see "Risk Factors-Other Risks" in Citi's 2022 Form 10-K). Examples of triggers that may result in deconsolidation of AO Citibank include voluntary or forced sale of ownership or loss of control due to actions of relevant governmental authorities, including expropriation (i.e., the entity becomes subject to the complete control of a government, court, administrator, trustee or regulator); revocation of banking license; and loss of ability to elect a board of directors or appoint members of senior management. As of June 30, 2023, Citi continued to consolidate AO Citibank because none of the deconsolidation factors were triggered.

In the event Citi deems there is a loss of control, for example, through expropriation of AO Citibank Russia, Citi's foreign entity in Russia, Citi would be required to (i) write off the net investment of approximately \$1.1 billion (compared to \$1.2 billion as of March 31, 2023), (ii) recognize a CTA loss of approximately \$1.6 billion (compared to \$1.4 billion as of March 31, 2023) through earnings and (iii) recognize a loss of \$0.4 billion (unchanged from March 31, 2023) on intercompany liabilities owed by AO Citibank to other Citi entities outside Russia. In the sole event of a substantial liquidation, as opposed to a loss of control, Citi would be required to recognize the CTA loss of approximately \$1.6 billion through earnings and would evaluate its remaining net investment as circumstances evolve.

## Citi as Paying Agent for Russian-related Clients

Citi serves or served as paying agent on bonds issued by various entities in Russia, including Russian corporate clients. Citi's role as paying agent is administrative. In this role, Citi acts as an agent of its client, the bond issuer, receiving interest and principal payments from the bond issuer and then making payments to international central securities depositories (e.g., Depository Trust Company, Euroclear, Clearstream). The international central securities depositories (ICSDs) make payments to those participants or account holders (e.g., broker/ dealers) that have clients who are investors in the applicable bonds (i.e., bondholders). As a paying agent, Citi generally does not have information about the identity of the bondholders. As a result of sanctions or other governmental requirements and prohibitions, Citi may be exposed to risks due to its responsibilities for receiving and processing payments on behalf of its clients. To mitigate operational and sanctions risks, Citi has established policies, procedures and controls for client relationships and payment processing to help ensure compliance with U.S., U.K., EU and other jurisdictions' sanctions laws.

These processes may require Citi to delay or withhold the processing of payments as a result of sanctions on the bond issuer. Citi is also prevented from making payments to accounts on behalf of bondholders should the ICSDs disclose to Citi the presence of sanctioned bondholders. In both instances, Citi is generally required to segregate, restrict or block the funds until applicable sanctions are lifted or the payment is otherwise authorized under applicable law.

## **Reputational Risks**

Citi has continued its efforts to enhance and protect its reputation with its colleagues, clients, customers, investors, regulators and the public. Citi's response to the war in Ukraine, including any action or inaction, may have a negative impact on Citi's reputation with some or all of these parties.

For example, Citi is exposed to reputational risk as a result of its current presence in Russia and association with Russian individuals or entities, whether subject to sanctions or not, including Citi's inability to support its global clients in Russia, which could adversely affect its broader client relationships and businesses; current involvement in transactions or supporting activities involving Russian assets or interests; failure to correctly interpret and apply laws and regulations, including those related to sanctions; perceived misalignment of Citi's actions to its stated strategy in Russia; and the reputational impact from Citi's activity and engagement with Ukraine or with non-Russian clients exiting their Russia businesses. Citi has considered the potential for reputation risk and taken actions to mitigate such risks. Citi established a Russia Special Review Process with management's Reputation Risk Committee with oversight for significant Russia-related reputation risks and completed a number of reputation risk reviews of matters with a Russian nexus.

While Citi announced its intention to wind down its businesses in Russia, Citi will continue to manage those operations during the wind-down process and will be required to maintain certain limited operations to fulfill its remaining legal and regulatory obligations. Also, sanctions and sanctions compliance are highly complex and may change over time and result in increased operational risk. Failure to fully comply with relevant sanctions or the application of sanctions where they should not be applied may negatively impact Citi's reputation. In addition, Citi currently performs services for, conducts business with or deals in non-sanctioned Russianowned businesses and Russian assets. This has attracted, and will likely continue to attract, negative attention, despite the previously disclosed plan to wind down nearly all its activities in the country, cessation of new business and client originations, and reduction of other exposures.

Citi's continued presence or divestiture of businesses in Russia could also increase its susceptibility to cyberattacks that could negatively impact its relationships with clients and customers, harm its reputation, increase its compliance costs and adversely affect its business operations and results of operations. For additional information on operational and cyber risks, see "Risk Factors—Operational Risk" in Citi's 2022 Form 10-K.

## **Board's Role in Overseeing Related Risks**

The Citi Board of Directors (Board) and the Board's Risk Management Committee (RMC) and its other Committees have received and continue to receive regular reports from senior management regarding the war in Ukraine and its impact on Citi's operations in Russia, Ukraine and elsewhere, as well as the war's broader geopolitical, macroeconomic and reputational impacts. In addition to receiving regular briefings from management, the full Board has routinely been invited to attend portions of the RMC meetings for discussions related to the war in Ukraine, including with respect to Citi's risk exposures and stress testing. The reports to the Board and its Committees from senior management who represent the impacted businesses and the EMEA region, Independent Risk Management, Finance, Independent Compliance Risk Management, including those individuals responsible for sanctions compliance, and Human Resources, have included detailed information regarding financial impacts, impacts on capital, cybersecurity, strategic considerations, sanctions compliance, employee assistance and reputational risks, enabling the Board and its Committees to properly exercise their oversight responsibilities. In addition, senior management has also provided updates to Citi's Executive Management Team and the Board, outside of formal meetings, regarding Citi's Russia-related risks, including with respect to cybersecurity matters.

#### Ukraine

Citi has continued to operate in Ukraine throughout the war through its *ICG* businesses, serving the local subsidiaries of multinationals, along with local financial institutions and the public sector. Citi employs approximately 230 people in Ukraine and their safety continues to be Citi's top priority. All of Citi's domestic operations in Ukraine are conducted through a subsidiary of Citibank, which uses the Ukrainian hryvnia as its functional currency. Citi's exposures in Ukraine are not significant enough to be included in the "Top 25 Country Exposures" table above. As of June 30, 2023, Citi had \$1.3 billion of direct exposures related to Ukraine, compared to \$1.2 billion as of March 31, 2023. The increase in exposures reflected a \$0.1 billion increase in deposits.

## Argentina

Citi operates in Argentina through its ICG businesses. As of June 30, 2023, Citi's net investment in its Argentine operations was approximately \$1.9 billion (compared to \$1.8 billion at March 31, 2023). Under U.S. GAAP, Citi uses the U.S. dollar as the functional currency for its operations in countries such as Argentina that are deemed highly inflationary. Citi therefore records the impact of exchange rate fluctuations on its net Argentine peso (ARS)-denominated assets directly in earnings. Accordingly, Citi seeks to reduce its overall ARS exposure in Argentina while complying with local capital and currency exposure limitations. As of June 30, 2023, Citi's net ARS exposure was approximately \$1.6 billion, which decreased from the prior quarter as a result of Citi purchasing approximately \$300 million of certain local government bonds during the second quarter that are indexed to the higher of the U.S. dollar exchange rate or the local inflation index. Such bonds may reduce the impact to Citi of a potential currency devaluation in the future, although it remains unclear how effective Citi's strategies to reduce its ARS exposure may be.

As previously disclosed, the Central Bank of Argentina has continued to maintain certain capital and currency controls that generally restrict Citi's ability to access U.S. dollars in Argentina and remit earnings from its Argentine operations. As a result, Citi's net investment in its Argentine operations is likely to continue to increase as Citi generates net income in its Argentine franchise and its earnings cannot be remitted. Due to the currency controls implemented by the Central Bank of Argentina, certain indirect foreign exchange mechanisms have developed that some Argentine entities may use to obtain U.S. dollars, generally at rates that are significantly higher than Argentina's official exchange rate. Citibank Argentina is precluded from accessing these alternative mechanisms, and these exchange mechanisms cannot be used to remeasure Citi's net monetary assets into the U.S. dollar under U.S. GAAP. Citibank Argentina therefore uses Argentina's official market exchange rate to remeasure its net ARS assets into the U.S. dollar, which was 256.7 ARS to 1 U.S. dollar as of June 30, 2023. However, if Argentina's official exchange rate converges with the approximate rate implied by the indirect foreign exchange mechanisms, Citi could incur a significant loss on its capital in Argentina. Current macroeconomic conditions in the country, along with sustained high inflation and low international reserves held by the Central Bank of Argentina, may result in an accelerated or steep depreciation of the official exchange rate in the near term. Citi cannot predict future fluctuations in Argentina's official market exchange rate or to what extent Citi may be able to access U.S. dollars at the official exchange rate in the future.

Citi may economically hedge the foreign currency risk in its net ARS-denominated assets to the extent possible and prudent using non-deliverable forward (NDF) derivative instruments that are primarily executed outside of Argentina. As of June 30, 2023, the international NDF market had very limited liquidity, resulting in Citi's inability to economically hedge substantially all of its ARS exposure. Accordingly, and to the extent that Citi does not execute NDF contracts for this unhedged exposure in the future, Citi would record devaluations on its net ARS-denominated assets in earnings, without any benefit from a change in the fair value of derivative positions used to economically hedge the exposure.

Citi continually evaluates its economic exposure to its Argentine counterparties and reserves for changes in credit risk and records mark-to-market adjustments for relevant market risks associated with its Argentine assets. Citi believes it has established an appropriate ACL on its Argentine loans, and appropriate fair value adjustments on Argentine assets and liabilities measured at fair value, for credit and sovereign risks under U.S. GAAP as of June 30, 2023. However, Citi may need to record additional reserves in the future, resulting in higher *ICG* cost of credit, should there be an increase in transfer risk associated with its Argentine exposures. For additional information on Citi's emerging markets risks, including those related to its Argentine exposures, see "Risk Factors—Strategic Risks" in Citi's 2022 Form 10-K.

## SIGNIFICANT ACCOUNTING POLICIES AND SIGNIFICANT ESTIMATES

This section contains a summary of Citi's most significant accounting policies. Note 1 to the Consolidated Financial Statements in Citi's 2022 Form 10-K contains a summary of all of Citigroup's significant accounting policies. These policies, as well as estimates made by management, are integral to the presentation of Citi's results of operations and financial condition. While all of these policies require a certain level of management judgment and estimates, this section highlights and discusses the significant accounting policies that require management to make highly difficult, complex or subjective judgments and estimates at times regarding matters that are inherently uncertain and susceptible to change (see also "Risk Factors-Operational Risks" in Citi's 2022 Form 10-K). Management has discussed each of these significant accounting policies, the related estimates and its judgments with the Audit Committee of the Citigroup Board of Directors.

### **Valuations of Financial Instruments**

Citigroup holds debt and equity securities, derivatives, retained interests in securitizations, investments in private equity and other financial instruments. A substantial portion of these assets and liabilities is reflected at fair value on Citi's Consolidated Balance Sheet as *Trading account assets*, *Available-for-sale securities* and *Trading account liabilities*.

Citi purchases securities under agreements to resell (reverse repos or resale agreements) and sells securities under agreements to repurchase (repos), a substantial portion of which is carried at fair value. In addition, certain loans, shortterm borrowings, long-term debt and deposits, as well as certain securities borrowed and loaned positions that are collateralized with cash, are carried at fair value. Citigroup holds its investments, trading assets and liabilities, and resale and repurchase agreements on Citi's Consolidated Balance Sheet to meet customer needs and to manage liquidity needs, interest rate risks and private equity investing.

When available, Citi generally uses quoted market prices to determine fair value and classifies such items within Level 1 of the fair value hierarchy established under ASC 820-10, *Fair Value Measurement*. If quoted market prices are not available, fair value is based on internally developed valuation models that use, where possible, current market-based or independently sourced market parameters, such as interest rates, currency rates and option volatilities. Such models are often based on a discounted cash flow analysis. In addition, items valued using such internally generated valuation techniques are classified according to the lowest level input or value driver that is significant to the valuation. Thus, an item may be classified under the fair value hierarchy as Level 3 even though there may be some significant inputs that are readily observable. Citi is required to exercise subjective judgments relating to the applicability and functionality of internal valuation models, the significance of inputs or value drivers to the valuation of an instrument and the degree of illiquidity and subsequent lack of observability in certain markets. The fair value of these instruments is reported on Citi's Consolidated Balance Sheet with the changes in fair value recognized in either the Consolidated Statement of Income or in *AOCI*.

Losses on available-for-sale securities whose fair values are less than the amortized cost, where Citi intends to sell the security or could more-likely-than-not be required to sell the security prior to recovery, are recognized in earnings. Where Citi does not intend to sell the security nor could more-likelythan-not be required to sell the security, any portion of the loss that is attributable to credit is recognized as an allowance for credit losses with a corresponding provision for credit losses and the remainder of the loss is recognized in *AOCI*. Such losses are capped at the difference between the fair value and amortized cost of the security.

For equity securities carried at cost or under the measurement alternative, decreases in fair value below the carrying value are recognized as impairment in the Consolidated Statement of Income. Moreover, for certain equity method investments, decreases in fair value are only recognized in earnings in the Consolidated Statement of Income if such decreases are judged to be an other-thantemporary impairment (OTTI). Assessing if the fair value impairment is temporary is also inherently judgmental.

The fair value of financial instruments incorporates the effects of Citi's own credit risk and the market view of counterparty credit risk, the quantification of which is also complex and judgmental. For additional information on Citi's fair value analysis, see Notes 6, 22 and 23 in this Form 10-Q and Note 1 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

## Citi's Allowance for Credit Losses (ACL)

The table below presents Citi's allowance for credit losses on loans (ACLL) and total ACL as of the second quarter of 2023. For information on the drivers of Citi's ACL build in the second quarter of 2023, see "2Q23 Changes in the ACL" below. For additional information on Citi's accounting policy on accounting for credit losses under ASC Topic 326, *Financial Instruments—Credit losses; Current Expected Credit Losses (CECL)*, see Note 1 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

									AC	ĽL					
In millions of dollars		Balance Dec. 31, 2022	(1	1Q23 build release)	1Q2 FX Other	/	Ν	Balance Iar. 31, 2023		2Q23 build release)		2Q23 FX/ Other		Balance Jun. 30, 2023	ACLL/EOP loans Jun. 30, 2023 <sup>(2)</sup>
ICG	\$	2,715		(75)		3	\$	2,643		(150)		(3)	\$	2,490	2025
Legacy Franchises corporate (Mexico SBMM)	+	140	Ŧ	(10)		7	+	137	*	(2)	•	5	Ť	140	
Total corporate ACLL	\$	2,855	\$	(85)	\$	10	\$	2,780	\$	(152)	\$	2	\$	2,630	0.94 %
U.S. Cards <sup>(2)</sup>	\$	11,393	\$	536	\$ (	(173)	\$	11,756	\$	276	\$	(1)	\$	12,031	7.86 %
Retail banking and Global Wealth		1,330		(29)		(60)		1,241		57		1		1,299	
Total PBWM	\$	12,723	\$	507	\$ (	(233)	\$	12,997	\$	333	\$	_	\$	13,330	
Legacy Franchises consumer		1,396		13		(17)		1,392		76		68		1,536	
Total consumer ACLL	\$	14,119	\$	520	\$ (	(250)	\$	14,389	\$	409	\$	68	\$	14,866	3.97 %
Total ACLL	\$	16,974	\$	435	\$ (	(240)	\$	17,169	\$	257	\$	70	\$	17,496	2.67 %
Allowance for credit losses on unfunded lending commitments (ACLUC)	\$	2,151	\$	(194)	\$	2	\$	1,959	\$	(96)	\$	(1)	\$	1,862	
Other <sup>(3)</sup>		243		408		(19)		632		145		(19)		758	
Total ACL	\$	19,368	\$	649	\$ (	(257)	\$	19,760	\$	306	\$	50	\$	20,116	

(1) Includes reclassifications to Other assets related to Citi's agreements to sell certain of its consumer banking businesses. See Notes 2 and 14.

(2) As of June 30, 2023, in U.S. Personal Banking, Branded cards ACLL/EOP loans was 6.3% and Retail services ACLL/EOP loans was 11.2%.

(3) Includes ACL on Other assets and Held-to-maturity debt securities.

(4) Includes a decrease of \$352 million from the adoption of ASU 2022-02 related to the recognition and measurement of TDRs under the modified retrospective approach related to *PBWM* and *Legacy Franchises* consumer loans as of January 1, 2023. See Notes 1 and 14.

Citi's reserves for expected credit losses on funded loans and for unfunded lending commitments, standby letters of credit and financial guarantees are reflected on the Consolidated Balance Sheet in the Allowance for credit losses on loans (ACLL) and Other liabilities (for Allowance for credit losses on unfunded lending commitments (ACLUC)), respectively. In addition, Citi's reserves for expected credit losses on other financial assets carried at amortized cost, including held-to-maturity securities, reverse repurchase agreements, securities borrowed, deposits with banks and other financial receivables are reflected in Other assets. These reserves, together with the ACLL and ACLUC, are referred to as the ACL. Changes in the ACL are reflected as Provision for credit losses in the Consolidated Statement of Income for each reporting period. Citi's ability to estimate expected credit losses over the reasonable and supportable (R&S) period is based on the ability to forecast economic activity over an R&S timeframe. The R&S forecast period for consumer and corporate credit exposures is eight quarters.

The ACL is composed of quantitative and qualitative management adjustment components. The quantitative component uses three forward-looking macroeconomic forecast scenarios—base, upside and downside. The qualitative management adjustment component reflects risks and current economic conditions not fully captured in the quantitative component. Both the quantitative and qualitative components are further discussed below.

## **Quantitative Component**

Citi estimates expected credit losses for its quantitative component using (i) its comprehensive internal data on loss and default history, (ii) internal credit risk ratings, (iii) external credit bureau and rating agencies information and (iv) R&S forecasts of macroeconomic conditions.

For its consumer and corporate portfolios, Citi's expected credit losses are determined primarily by utilizing models that consider the borrowers' probability of default (PD), loss given default (LGD) and exposure at default (EAD). The loss likelihood and severity models used for estimating expected credit losses are sensitive to changes in macroeconomic variables, including housing prices, unemployment rate and real GDP, and cover a wide range of geographic, industry, product and business segments.

In addition, Citi's models determine expected credit losses based on leading credit indicators, including loan delinquencies, changes in portfolio size, default frequency, risk ratings and loss recovery rates, as well as other credit trends.

## Qualitative Component

The qualitative management adjustment component includes, among other things, risks that are not fully captured in the quantitative component. These may include but are not limited to portfolio characteristics, idiosyncratic events, factors not within historical loss data or the economic forecast, uncertainty in the environment and other factors as required by banking supervisory guidance for the ACL. The primary examples of these are:

- Expected normalization of portfolio performance and consumer behavior from recent low losses as a result of government stimulus and market liquidity during the COVID-19 pandemic
- Potential impacts on vulnerable industries and regions due to emerging macroeconomic risks and uncertainties, including those related to potential global recession, inflation, interest rates, commodity prices and geopolitical tensions
- Transfer risk associated with exposures outside the U.S. for certain safety and soundness considerations under U.S. banking law

Citi's qualitative component of the ACL continued to decline quarter-over-quarter. The decline was primarily driven by releases of COVID-19–related uncertainty reserves as the portfolio continues to normalize toward pre-pandemic levels and as these risks are captured in the quantitative component of the ACL. These releases were partially offset by a build for transfer risk associated with exposures outside the U.S. driven by safety and soundness considerations under U.S. banking law.

## Macroeconomic Variables

Citi considers a multitude of global macroeconomic variables for the base, upside and downside probability-weighted macroeconomic scenario forecasts it uses to estimate the ACL. Citi's forecasts of the U.S. unemployment rate and U.S. real GDP growth rate represent the key macroeconomic variables that most significantly affect its estimate of the ACL.

The tables below present Citi's forecasted quarterly average U.S. unemployment rate and year-over-year U.S. real GDP growth rate used in determining the base macroeconomic forecast for Citi's ACL for each quarterly reporting period from 2Q22 to 2Q23:

	Quar			
U.S. unemployment	3Q23	1Q24	3Q24	8-quarter average <sup>(1)</sup>
Citi forecast at 2Q22	3.8 %	3.9 %	3.9 %	3.7 %
Citi forecast at 3Q22	4.2	4.0	4.0	4.0
Citi forecast at 4Q22	4.5	4.6	4.5	4.4
Citi forecast at 1Q23	4.0	4.5	4.5	4.3
Citi forecast at 2Q23	3.8	4.3	4.5	4.3

(1) Represents the average unemployment rate for the rolling, forward-looking eight quarters in the forecast horizon.

	Year-over-	-year growth	rate <sup>(1)</sup>				
	Full year						
U.S. real GDP	2023	2024	2025				
Citi forecast at 2Q22	1.8 %	2.0 %	2.1 %				
Citi forecast at 3Q22	0.6	1.9	2.7				
Citi forecast at 4Q22	0.3	1.5	2.2				
Citi forecast at 1Q23	1.0	1.0	2.0				
Citi forecast at 2Q23	1.3	0.7	2.0				

(1) The year-over-year growth rate is the percentage change in the real (inflation adjusted) GDP level.

Under the base macroeconomic forecast as of 2Q23, U.S. real GDP growth is expected to decline for the remainder of 2023, while the unemployment rate is expected to increase modestly over the eight-quarter forecast horizon, broadly returning to pre-pandemic levels.

### Scenario Weighting

Citi's ACL is estimated using three probability-weighted macroeconomic scenarios—base, upside and downside. The macroeconomic scenario weights are estimated using a statistical model, which, among other factors, takes into consideration key macroeconomic drivers of the ACL, severity of the scenario and other macroeconomic uncertainties and risks. Citi evaluates scenario weights on a quarterly basis.

Citi's downside scenario incorporates more adverse macroeconomic assumptions than the base scenario. For example, compared to the base scenario, Citi's downside scenario reflects a more severe recession, including an elevated average U.S. unemployment rate of 6.8% over the eight-quarter R&S period, with a peak difference of 3.0% in the fourth quarter of 2024. The downside scenario also reflects a year-over-year U.S. real GDP contraction in 2024 of 1.9%, with a peak quarter-over-quarter difference to the base scenario of 1.0% in the fourth quarter of 2023.

Citi's ACL is sensitive to the various macroeconomic scenarios that drive the quantitative component of expected credit losses due to changes in the length and severity of forecasted economic variables or events in the respective scenarios. To demonstrate this sensitivity, Citi applied 100% weight to the downside scenario as of June 30, 2023, to reflect the most severe economic deterioration forecast in the multiple macroeconomic scenarios. Citi's downside scenario incorporates more adverse macroeconomic assumptions than the weighted scenario assumptions; therefore, applying a 100% downside scenario weight would result in a hypothetical increase in the ACL of approximately \$4.5 billion related to lending exposures, except for loans individually evaluated for credit losses.

This analysis does not incorporate any impacts or changes to the qualitative component of the ACL. These factors could decrease the outcome of the sensitivity analysis based on historical experience and current conditions at the time of the assessment. Given the uncertainty inherent in macroeconomic forecasting, Citi continues to believe that its ACL estimate based on a three probability-weighted macroeconomic scenario approach combined with the qualitative component remains appropriate as of June 30, 2023.

## 2Q23 Changes in the ACL

As further discussed below, Citi's ending ACL balance for the second quarter of 2023 was \$20.1 billion, compared to \$19.8 billion as of March 31, 2023. The net build of \$0.3 billion was primarily driven by growth in card balances in *PBWM*, partially offset by a release in the corporate portfolios due to an improved macroeconomic outlook. Based on its latest macroeconomic forecast, Citi believes its analysis of the ACL reflects the forward view of the economic environment as of June 30, 2023. See Note 14 for additional information.

*Consumer Allowance for Credit Losses on Loans* Citi's consumer ACLL is largely driven by U.S. cards (Branded cards and Retail services) in U.S. Personal Banking. Citi's total consumer ACLL build was \$0.4 billion in the second quarter of 2023, primarily driven by growth in U.S. cards balances, resulting in a June 30, 2023 ACLL balance of \$14.9 billion, or 3.97% of total funded consumer loans.

For U.S. cards, the level of reserves relative to total funded loans decreased to 7.86% at June 30, 2023, due to volume growth in lower-loss portfolios, compared to 8.08% at March 31, 2023. For the remaining consumer exposures, the level of reserves relative to total funded loans was 1.28% at June 30, 2023, compared to 1.21% at March 31, 2023.

## Corporate Allowance for Credit Losses on Loans

Citi had a corporate ACLL release of \$0.2 billion in the second quarter of 2023. The release was primarily driven by an improved macroeconomic outlook. The ACLL reserve balance decreased by \$0.2 billion to \$2.6 billion, or 0.94% of total funded corporate loans.

## ACLUC

Citi had an ACLUC release of \$0.1 billion in the second quarter of 2023, which reduced the ACLUC reserve balance, included in *Other liabilities*, to \$1.9 billion. The release was primarily driven by an improved macroeconomic outlook.

## ACL on Other Financial Assets

Citi's ending ACL balance on other financial assets carried at amortized cost for the second quarter of 2023 was \$0.8 billion, compared to \$0.6 billion as of March 31, 2023. The net build of \$0.1 billion was primarily driven by a reserve build of \$0.3 billion related to an increase in transfer risk associated with exposures outside the U.S. driven by safety and soundness considerations under U.S. banking law, partially offset by the reserve release related to the repayment of the First Republic Bank deposit. See Note 14 for additional information.

## **Regulatory Capital Impact**

Citi elected the modified CECL transition provision for regulatory capital purposes provided by the U.S. banking agencies' final rule. Accordingly, the Day One regulatory capital effects resulting from the adoption of CECL, as well as the ongoing adjustments for 25% of the change in CECL-based allowances in each quarter between January 1, 2020 and December 31, 2021, started to be phased in on January 1, 2022 and will be fully reflected in Citi's regulatory capital as of January 1, 2025.

See Notes 1 and 14 for a further description of the ACL and related accounts.

## Goodwill

Citi tests goodwill for impairment annually as of October 1 (the annual test) and conducts interim assessments between the annual test if an event occurs or circumstances change that would more-likely-than-not reduce the fair value of a reporting unit below its carrying amount. These events or circumstances include, among other things, a significant adverse change in the business climate, a decision to sell or dispose of all or a significant portion of a reporting unit or a sustained decrease in Citi's stock price.

At October 1, 2022, the fair value of two reporting units (Banking and Mexico Consumer/SBMM) ranged from 102% to 106% of their carrying values. The carrying values of the Banking and Mexico Consumer/SBMM reporting units included approximately \$1.5 billion and \$1 billion of goodwill, respectively. For each of the remaining reporting units, fair value exceeded carrying value by at least 10%.

While the inherent risk related to uncertainty is embedded in the key assumptions used in the valuations of the reporting units, the economic and business environments continue to evolve as Citi's management implements its strategic refresh. If management's future estimates of key economic and market assumptions were to differ from its current assumptions, Citi could potentially experience material goodwill impairment charges in the future. See Note 15 for a further discussion of goodwill.

## **Litigation Accruals**

See the discussion in Note 26 for information regarding Citi's policies on establishing accruals for litigation and regulatory contingencies.

## **Effective Tax Rate**

		Months June 30,	Six Months Ended June 30				
In millions of dollars, except effective tax rate	2023	2022	2023	2022			
Income from continuing operations before income tax expense	\$ 4,042	\$ 5,971	\$10,225	\$11,237			
Provision for income taxes	1,090	1,182	2,621	2,123			
Effective tax rate	27 %	20 %	26 %	19 %			

Citi's effective tax rate was 27% in the second quarter of 2023, including the impact of divestitures, versus 20% in the second quarter of 2022, largely driven by the geographic mix of earnings. For the six months ended June 30, 2023, Citi's effective tax rate increased to 26%, including the impact of divestitures, compared to 19% in the prior-year period, largely driven by lower discrete benefits.

## **Deferred Tax Assets**

For additional information on Citi's deferred tax assets (DTAs), see "Capital Resources," "Risk Factors—Strategic Risks," "Significant Accounting Policies and Significant Estimates—Income Taxes" and Notes 1 and 9 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

The table below summarizes Citi's net DTAs balance:

Jurisdiction/Component	DTAs balance				
In billions of dollars		June 30, 2023	December 31, 2022		
Total U.S.	\$	25.4	\$	24.8	
Total foreign		3.1		2.9	
Total	\$	28.5	\$	27.7	

At June 30, 2023, Citigroup had recorded net DTAs of approximately \$28.5 billion, an increase of \$0.9 billion from March 31, 2023 and \$0.8 billion from December 31, 2022. The increase for the second quarter and year to date was primarily a result of Citi's geographic mix of earnings. Of Citi's \$28.5 billion of net DTAs, \$16.8 billion was not deducted in calculating regulatory capital and was appropriately risk weighted under the Basel III rules. The remaining \$11.7 billion (compared to \$11.1 billion at March 31, 2023) was deducted in calculating Citi's regulatory capital. The \$11.7 billion of DTA deducted from regulatory capital was composed of \$11.5 billion related to tax carryforwards and \$1.8 billion of temporary differences in excess of the 10%/15% regulatory limitations, reduced by \$1.6 billion of deferred tax liabilities, primarily associated with goodwill and certain other intangible assets that were separately deducted from capital. The largest component of the increase in the DTA deducted from Citi's regulatory capital during the quarter was related to temporary differences in excess of the 10%/15% limitations (\$1.8 billion at June 30, 2023 compared to \$1.1 billion at March 31, 2023), primarily attributable to higher temporary differences in DTAs subject to the limitation.

## DTA Realizability

Citi believes that realization of the net DTAs of \$28.5 billion at June 30, 2023 is more-likely-than-not, based on management's expectations of future taxable income generation in the jurisdictions in which the DTAs arise, as well as consideration of available tax planning strategies (as defined in ASC Topic 740, *Income Taxes*).

# DISCLOSURE CONTROLS AND PROCEDURES

Citi's disclosure controls and procedures are designed to ensure that information required to be disclosed under the Securities Exchange Act of 1934, as amended, is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, including without limitation that information required to be disclosed by Citi in its SEC filings is accumulated and communicated to management, including the Chief Executive Officer (CEO) and Chief Financial Officer (CFO), as appropriate, to allow for timely decisions regarding required disclosure.

Citi's Disclosure Committee assists the CEO and CFO in their responsibilities to design, establish, maintain and evaluate the effectiveness of Citi's disclosure controls and procedures. The Disclosure Committee is responsible for, among other things, the oversight, maintenance and implementation of the disclosure controls and procedures, subject to the supervision and oversight of the CEO and CFO.

Citi's management, with the participation of its CEO and CFO, has evaluated the effectiveness of Citigroup's disclosure controls and procedures (as defined in Rule 13a-15(e) under the Securities Exchange Act of 1934) as of June 30, 2023. Based on that evaluation, the CEO and CFO have concluded that at that date Citigroup's disclosure controls and procedures were effective.

## DISCLOSURE PURSUANT TO SECTION 219 OF THE IRAN THREAT REDUCTION AND SYRIA HUMAN RIGHTS ACT

Pursuant to Section 219 of the Iran Threat Reduction and Syria Human Rights Act of 2012 (Section 219), which added Section 13(r) to the Securities Exchange Act of 1934, as amended, Citi is required to disclose in its annual or quarterly reports, as applicable, whether it or any of its affiliates knowingly engaged in certain activities, transactions or dealings relating to Iran or with certain individuals or entities that are the subject of sanctions under U.S. law. Disclosure is generally required even where the activities, transactions or dealings were conducted in compliance with applicable law. To the extent that transactions or dealings for its clients are permitted by U.S. law, Citi may continue to engage in such activities.

Citi, in its First Quarter of 2023 Form 10-Q, identified and reported certain activities pursuant to Section 219 for the fourth quarter of 2022. During the second quarter of 2023, Citigroup identified eight transactions pursuant to Section 219:

- Between April 20, 2023 and April 24, 2023, Citibank (Hong Kong) Limited (CHKL) processed seven transactions involving the account of a Specially Designated National, who was designated on April 19, 2023, pursuant to the Weapons of Mass Destruction Proliferators Sanctions Regulations. The total value of the seven transactions was approximately USD 605,029.05, which includes a nominal fee that CHKL realized in relation to a transaction that was ultimately blocked; CHKL did not realize any additional fees. Once identified, the transactions were disclosed to the U.S. Department of the Treasury's Office of Foreign Assets Control (OFAC).
- On June 7, 2023, CHKL and Citibank, N.A., New York Branch, processed a transaction from a Specially Designated National, who was designated on June 6, 2023, pursuant to the Weapons of Mass Destruction Proliferators Sanctions Regulations, to a non-sanctioned entity in China. The total value of the transaction was USD 4,736.18 and CHKL did not realize any fees for the processing of the transaction. Once identified, the transaction was disclosed to OFAC.

## FORWARD-LOOKING STATEMENTS

Certain statements in this Form 10-Q, including but not limited to statements included within the Management's Discussion and Analysis of Financial Condition and Results of Operations, are "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. In addition, Citigroup may make forward-looking statements in its other documents filed or furnished with the SEC, and its management may make forward-looking statements orally to analysts, investors, representatives of the media and others.

Generally, forward-looking statements are not based on historical facts but instead represent Citigroup's and its management's beliefs regarding future events. Such statements may be identified by words such as believe, expect, anticipate, intend, estimate, may increase, may fluctuate, target and illustrative, and similar expressions or future or conditional verbs such as will, should, would and could.

Such statements are based on management's current expectations and are subject to risks, uncertainties and changes in circumstances. Actual results of operations and financial conditions, including capital and liquidity, may differ materially from those included in these statements due to a variety of factors, including without limitation (i) the precautionary statements included within the "Executive Summary" and each business's discussion and analysis of its results of operations above, in Citi's First Quarter of 2023 Form 10-Q, in Citi's 2022 Form 10-K and in Citi's other SEC filings; (ii) the factors listed and described under "Risk Factors" in Citi's 2022 Form 10-K; and (iii) the risks and uncertainties summarized below:

the potential impact to Citi from continued macroeconomic, geopolitical and other challenges, uncertainties and volatility, including, among others, governmental fiscal and monetary actions or expected actions, including further increases in interest rates, reductions in central bank balance sheets, or other changes in interest rate or other monetary policies; potential recessions in the U.S., Europe and other regions and countries; a potential U.S. federal government shutdown and the resulting impacts; elevated levels of inflation and their impacts; economic and geopolitical challenges related to China, including weak economic growth and tensions related to Taiwan; other geopolitical challenges, tensions and conflicts, including those related to Russia's war in Ukraine; impacts related to recent bank failures and related market volatility, including macroeconomic conditions; foreign currency volatility and devaluations; distress and volatility in emerging markets, including sovereign debt pricing; protracted or widespread trade tensions; and election outcomes; the potential impact on Citi's ability to return capital to common shareholders consistent with its capital planning efforts and targets, due to, among other things: changes in regulatory capital rules, requirements or interpretations, such as revisions to the U.S. Basel III rules, including the recently issued notice of proposed rulemaking, known as the Basel III Endgame, related to regulatory capital

requirements; regulatory capital requirements, including annual recalibration of the Stress Capital Buffer (preliminarily increased effective as of October 1, 2023); recalibration of the GSIB surcharge; Citi's results of operations and financial condition; the capital impacts related to Citi's remaining consumer banking divestitures, and achievement of the expected benefits from the divestitures; Citi's effectiveness in planning, managing and calculating its level of risk-weighted assets under both the Advanced Approaches and the Standardized Approach and Supplementary Leverage ratio and GSIB surcharge; Citi's implementation and maintenance of an effective capital planning framework; forecasts of macroeconomic conditions; and Citi's DTA utilization;

- the ongoing regulatory and legislative uncertainties and changes faced by financial institutions, including Citi, in the U.S. and globally, such as potential fiscal, monetary, regulatory, tax, sanctions and other changes, including potential increased regulatory requirements and costs such as the imposition of additional or special assessments by the FDIC, including the recently issued notice of proposed rulemaking to recover the uninsured deposit losses from recent bank failures; potential changes to various aspects of the regulatory capital framework; future legislative and regulatory requirements in the U.S. and globally relating to sustainability and climate change, including any new disclosure requirements, such as those proposed and/or adopted by the SEC and the EU; increased legislative activity by U.S. states that restricts the flow of capital and investment by financial institutions to state governmental entities, including anti-ESG initiatives that are designed to push back against corporate ESG policies; and the potential impact these uncertainties and changes could have on Citi's businesses, results of operations, financial condition, business planning and compliance risks and costs:
- the potential impact to credit card fee revenues in Branded cards and Retail services in *PBWM* from the Consumer Financial Protection Bureau's proposed significant changes to the maximum amounts on credit card late fees;
- Citi's ability to improve its risk and controls environment, modernize its data and technology infrastructure and further enhance safety and soundness, meet regulatory expectations, be sufficiently competitive, serve clients effectively, avoid operational errors and realize productivity improvements, as part of its transformation and other strategic initiatives, including as a result of factors that Citi cannot control, which could make the initiatives more costly and more challenging to implement, and limit their effectiveness;
- Citi's ability to achieve its objectives from its strategic refresh, including, among others, those related to its exits of remaining consumer banking businesses in *Legacy Franchises*, including, among others, the consumer, small business and middle-market operations in Mexico, and Citi's wind-down of its activities in Russia, Korea and China, which involve significant execution complexity, may not be as productive, effective or timely as Citi expects, may impact the local businesses during the exit

process, and could result in losses, charges or other negative financial or strategic impacts, which could be material;

the potential impact to Citi from climate change and the transition to a low-carbon economy, including both physical risks, such as increased frequency and/or severity of adverse weather events as consequences of chronic climate changes, and transition risks, such as those arising from changes in regulations or market preferences toward a low-carbon economy; higher regulatory, compliance, credit, reputational and other risks and costs and datarelated challenges, including as a result of any new disclosure requirements; and an increased focus by banking regulators and others on the issue of climate change at financial institutions directly and with respect to their clients;

- Citi's ability to utilize its DTAs (including the foreign tax credit component of its DTAs) and thus reduce the negative impact of the DTAs on Citi's regulatory capital, including as a result of its ability to generate U.S. taxable income in the relevant tax carry-forward periods;
- the potential impact to Citi if its interpretation or application of the complex income-based and nonincome-based (such as withholding, stamp, service and other non-income taxes) tax laws to which it is subject in the U.S. and in non-U.S. jurisdictions differs from those of the relevant governmental taxing authorities, including as a result of litigation or examinations regarding nonincome-based tax matters, and the resulting payment of additional taxes, penalties or interest;
- the potential impact from a deterioration in or failure to maintain Citi's co-branding or private label credit card relationships, due to, among other things, the general economic environment; changes in consumer sentiment, spending patterns and credit card usage behaviors; a decline in sales and revenues, partner store closures or other operational difficulties of the retailer or merchant; early termination of a particular relationship; or other factors, including bankruptcies, liquidations, restructurings, consolidations or other similar events, whether due to the impact of a challenging economic environment or otherwise;
- Citi's ability in its resolution plan submissions to address any shortcomings or deficiencies or guidance provided by the Federal Reserve Board or FDIC;
- the potential impact on Citi's performance and the performance of its individual businesses, including its competitive position and ability to effectively manage its businesses, and its ability to effectively execute its transformation and other strategic initiatives, if Citi is unable to attract, retain and motivate highly qualified employees, particularly given the highly competitive environment for talent and other factors, such as low unemployment, changes in worker's expectations and regulation of employee compensation in the banking industry;

Citi's ability to compete effectively in the U.S. and globally with both financial and non-financial services firms, including as a result of certain competitors being subject to less stringent legal and regulatory requirements; the introduction of new or emerging technologies and mobile platforms; possible disruptions from artificial intelligence-driven solutions; growth in digital asset markets; changes in the payments space; reliance on third parties for certain product and service offerings and impact if any third party is unable to provide adequate support for such product and service offerings; and the increased operational, compliance and other risks resulting from the need to develop new or change or adapt existing products and services to attract and retain customers or clients or to compete more effectively with competitors;

- the potential impact to Citi from a prior or future failure or disruption of its operational processes or systems, including as a result of, among other things, human error, such as manual transaction processing errors (e.g., erroneous payments to lenders or manual errors by Citi traders that cause system and market disruptions and losses for Citi or its clients), which can be exacerbated by staffing challenges and processing backlogs; fraud or malice on the part of employees or third parties; operational or execution failures or deficiencies by third parties; insufficient (or limited) straight-through processing between legacy systems and any failure to design and effectively operate controls that mitigate operational risks associated with those legacy systems, leading to potential risk of errors and operating losses; accidental system or technological failure; electrical or telecommunication outages; failure of or cyber incidents involving computer servers or infrastructure; other similar losses or damage to Citi's property or assets; failures by third parties; potential disruptions and/or malfunctions within Citi's businesses, as well as the operations of Citi's clients, customers or other third parties; and the increased financial, reputational, legal and compliance risks resulting from any such failure or disruption of operational processes or systems, including legal and regulatory actions or proceedings, fines and other costs;
- the increasing risk to Citi's and third parties' computer systems and networks from continually evolving, sophisticated cybersecurity incidents that could result in, among other things, theft, loss, misuse or disclosure of confidential Citi, client or customer information or assets and a disruption of computer, software or network systems; and the potential impact from such risks, including reputational damage, regulatory penalties, loss of revenues, additional costs (including repair, remediation and other costs), exposure to litigation and other financial losses;
- the potential impact of changes or errors in accounting assumptions, judgments or estimates, or the application of certain accounting principles, related to the preparation of Citi's financial statements, including the estimate of Citi's ACL, which depends on its CECL models and assumptions, forecasted macroeconomic conditions and characteristics of Citi's loan portfolios and other applicable financial assets; reserves related to litigation, regulatory and tax matters exposures; valuation of DTAs; the fair values of certain assets and liabilities; and the assessment of goodwill and other assets for impairment;

- the financial impact from reclassification of any CTA component of *AOCI*, including related hedges and taxes, into Citi's earnings, due to a sale, IPO, substantial liquidation or other deconsolidation event of any foreign operations, such as those related to Citi's remaining consumer banking divestitures or other legacy businesses, whether due to Citi's strategic refresh or otherwise; the impact of changes to financial accounting and reporting standards or interpretations of how Citi records and reports its financial condition and results of operations;
- the potential impact to Citi's results of operations and/or regulatory capital and capital ratios if Citi's risk management and mitigation processes, strategies or models, including those related to its comprehensive stress testing initiatives or ability to manage, assess and aggregate data, are deficient or ineffective, or Citi's Basel III regulatory capital models require refinement, modification or enhancement, or any related action is taken by Citi's U.S. banking regulators;
- the potential impact of credit risk and concentrations of risk on Citi's results of operations, whether due to a default of or deterioration involving consumer, corporate or public sector borrowers or other counterparties in the U.S. or in various countries and jurisdictions globally, including from indemnification obligations in connection with various transactions, such as hedging or reinsurance arrangements related to those obligations, or Citi's inability to liquidate or realize the fair value of its collateral, which risks can be heightened for vulnerable industries or sectors impacted by the continued macroeconomic, geopolitical, market and other challenges and uncertainties and volatilities;
- the potential impact on Citi's liquidity and/or costs of funding if it does not effectively manage its liquidity or due to various other factors, including, among others, general disruptions in the financial markets; deposit outflows or unfavorable changes in deposit mix, whether driven by migration to higher-yielding products or otherwise; governmental fiscal and monetary policies; regulatory changes; negative investor perceptions of Citi's creditworthiness; competition for funding, including a decrease in demand for corporate debt, unexpected increases in cash or collateral requirements, and the consequent inability to monetize available liquidity resources; changes in Citi's credit spreads; higher interest rates; and changes in currency exchange rates; the impact of a credit ratings downgrade of Citi or certain of its subsidiaries or issuing entities on Citi's funding and liquidity as well as on the operations of certain of its businesses;
- the potential impact to Citi of ongoing interpretation and implementation of regulatory and legislative requirements and changes in the U.S. and globally, as well as heightened regulatory scrutiny and expectations for large financial institutions and their employees and agents, with respect to governance, infrastructure, data, climate and risk management practices and controls, customer and client protection, market practices, anti-money laundering and increasingly complex sanctions and disclosure

regimes, including the impact on Citi's compliance, regulatory and other risks and costs, such as increased regulatory oversight and restrictions, enforcement proceedings, penalties and fines;

- the potential outcomes of the extensive legal and regulatory proceedings, examinations, investigations, consent orders and related compliance efforts and other inquiries, to which Citi is or may be subject at any given time, such as the previously disclosed October 2020 FRB and OCC consent orders, particularly given the increased focus by regulators on risk and controls, such as enterprise-wide risk management, compliance, data quality management and governance and internal controls, and policies and procedures; Citi's ability to implement targeted actions plans and submit quarterly progress reports detailing the results and status of improvements to comply with the consent orders on a timely and sufficient basis, which will continue to require significant investments to meet regulatory expectations; the heightened scrutiny and expectations generally from regulators, and the severity of the remedies sought by regulators, such as significant monetary penalties, supervisory or enforcement orders, business restrictions, limitations on dividends, changes to directors and/or officers and collateral consequences to Citi arising from such outcomes; and
- the various risks faced by Citi as a result of its presence in • the emerging markets, including, among others, limitations or unavailability of hedges on foreign investments; foreign currency volatility and devaluations; sustained elevated interest rates; sovereign debt volatility; election outcomes; regulatory changes and political events; foreign exchange controls, including the inability to access indirect foreign exchange mechanisms; macroeconomic and geopolitical challenges and uncertainties and volatility, including with respect to commodity prices as well as repricing of assets and resulting impacts; limitations on foreign investment; sociopolitical instability (including from hyperinflation); fraud; nationalization or loss of licenses; business restrictions; sanctions or asset freezes; potential criminal charges; closure of branches or subsidiaries; confiscation of assets, whether related to geopolitical conflicts or otherwise; the need to record additional reserves based on the transfer risk associated with exposures outside the U.S. driven by safety and soundness considerations under U.S. banking law; and increased compliance and regulatory risks and costs.

Any forward-looking statements made by or on behalf of Citigroup speak only as to the date they are made, and Citi does not undertake to update forward-looking statements to reflect the impact of circumstances or events that arise after the forward-looking statements were made. This page intentionally left blank.

## FINANCIAL STATEMENTS AND NOTES TABLE OF CONTENTS

## CONSOLIDATED FINANCIAL STATEMENTS

Consolidated Statement of Income (Unaudited)— For the Three and Six Months Ended June 30, 2023 and 2022	<u>88</u>
Consolidated Statement of Comprehensive Income (Unaudited)—For the Three and Six Months Ended June 30, 2023 and 2022	<u>89</u>
Consolidated Balance Sheet—June 30, 2023 (Unaudited) and December 31, 2022	<u>90</u>
Consolidated Statement of Changes in Stockholders' Equity (Unaudited)—For the Three and Six Months Ended June 30, 2023 and 2022	<u>92</u>
Consolidated Statement of Cash Flows (Unaudited)— For the Six Months Ended June 30, 2023 and 2022	<u>93</u>

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (UNAUDITED)

Note 1—Basis of Presentation, Updated Accounting Policies	
and Accounting Changes	<u>95</u>
Note 2—Discontinued Operations, Significant Disposals and Other Business Exits	<u>97</u>
Note 3—Operating Segments	<u>100</u>
Note 4—Interest Revenue and Expense	<u>102</u>
Note 5—Commissions and Fees; Administration and Other Fiduciary Fees	<u>103</u>
Note 6—Principal Transactions	<u>105</u>
Note 7—Incentive Plans	<u>106</u>
Note 8—Retirement Benefits	<u>106</u>
Note 9—Earnings per Share	<u>110</u>
Note 10—Securities Borrowed, Loaned and Subject to Repurchase Agreements	<u>111</u>
Note 11—Brokerage Receivables and Brokerage Payables	<u>114</u>
Note 12—Investments	<u>115</u>
Note 13—Loans	<u>123</u>

Note 14—Allowance for Credit Losses	<u>143</u>
Note 15—Goodwill and Intangible Assets	<u>150</u>
Note 16—Deposits	<u>151</u>
Note 17—Debt	<u>152</u>
Note 18—Changes in Accumulated Other Comprehensive Income (Loss) (AOCI)	<u>153</u>
Note 19—Preferred Stock	<u>158</u>
Note 20—Securitizations and Variable Interest Entities	<u>160</u>
Note 21—Derivatives	<u>167</u>
Note 22—Fair Value Measurement	<u>177</u>
Note 23—Fair Value Elections	<u>197</u>
Note 24—Guarantees and Commitments	<u>201</u>
Note 25—Leases	<u>206</u>
Note 26—Contingencies	<u>207</u>
Note 27—Subsidiary Guarantees	<u>209</u>

## CONSOLIDATED FINANCIAL STATEMENTS

## CONSOLIDATED STATEMENT OF INCOME (UNAUDITED)

Citigroup Inc. and Subsidiaries

	Three Months Ended June 30,				Six Months Ended	d June 30,	
In millions of dollars, except per share amounts		2023		2022		2023	2022
Revenues							
Interest revenue	\$	32,647	\$	15,630	\$	62,042 \$	28,781
Interest expense		18,747		3,666		34,794	5,946
Net interest income	\$	13,900	\$	11,964	\$	27,248 \$	22,835
Commissions and fees	\$	2,132	\$	2,452	\$	4,498 \$	5,020
Principal transactions		2,528		4,525		6,467	9,115
Administration and other fiduciary fees		989		1,023		1,885	1,989
Realized gains on sales of investments, net		49		(58)		121	22
Impairment losses on investments:							
Impairment losses on investments and other assets		(71)	)	(96)		(157)	(186
Provision (releases) for credit losses on AFS debt securities <sup>(1)</sup>		1		2		_	2
Net impairment losses recognized in earnings	\$	(70)	\$	(94)	\$	(157) \$	(184
Other revenue	\$	(92)	\$	(174)	\$	821 \$	27
Total non-interest revenues	\$	5,536		7,674	_	13,635 \$	15,989
Total revenues, net of interest expense	\$	19,436		19,638	_	40,883 \$	38,824
Provisions for credit losses and for benefits and claims							
Provision for credit losses on loans	\$	1,761	\$	1,384	\$	3,498 \$	1,644
Provision (release) for credit losses on HTM debt securities		(4)		20		(21)	18
Provision for credit losses on other assets		149		7		574	3
Policyholder benefits and claims		14		22		38	49
Provision (release) for credit losses on unfunded lending commitments		(96)	)	(159)		(290)	315
Total provisions for credit losses and for benefits and claims <sup>(2)</sup>	\$	1,824		1,274	\$	3,799 \$	2,029
Operating expenses	Ψ	1,021	Ψ	1,271	Ψ	0,177 0	2,029
Compensation and benefits	\$	7,388	\$	6,472	\$	14,926 \$	13,292
Premises and equipment	Ψ	595	Ψ	619	Ψ	1,193	1,162
Technology/communication		2,309		2,068		4,436	4,084
Advertising and marketing		361		414		692	725
Other operating		2,917		2,820		5,612	6,295
Total operating expenses	\$	13,570	\$	12,393	\$	26,859 \$	25,558
Income from continuing operations before income taxes	\$	4,042			\$	10,225 \$	11,237
Provision for income taxes	Φ	1,090	Ψ	1,182	Φ	2,621	2,123
Income from continuing operations	\$	2,952	\$	4,789	\$	7,604 \$	9,114
Discontinued operations	Ψ	2,752	Ψ	1,705	Ψ	7,004 Φ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Income (loss) from discontinued operations	\$	(1)	\$	(262)	s	(2) \$	(264
Benefit for income taxes	Φ	(1)	Ψ	(202)	Φ	(2) \$	(204
Income (loss) from discontinued operations, net of taxes	\$	(1)	\$	(221)	\$	(2) \$	(223
Net income before attribution to noncontrolling interests	\$	2,951		4,568		7,602 \$	8,891
Noncontrolling interests	Φ	36	Ψ	-,508	Φ	81	38
Citigroup's net income	\$	2,915	2	4,547	¢	7,521 \$	8,853
Basic earnings per share <sup>(3)</sup>	φ	2,713	ψ	7,577	φ	7,521 \$	0,055
Income from continuing operations	¢	1.34	¢	2.32	¢	3 55 0	4.34
Income from discontinued operations, net of taxes	\$	1.34	Э		Э	3.55 \$	
Net income	\$	1.34	¢	(0.11) 2.20	¢	3.54 \$	(0.11 4.23
	Ф		\$		Э		
Weighted average common shares outstanding (in millions)		1,942.8		1,941.5		1,943.2	1,956.6
Diluted earnings per share <sup>(3)</sup>							
Income from continuing operations	\$	1.33	\$	2.30	\$	3.52 \$	4.32
Income (loss) from discontinued operations, net of taxes				(0.11)		—	(0.11
Net income	\$	1.33	\$	2.19	\$	3.52 \$	4.20
Adjusted weighted average diluted common shares outstanding (in millions)		1,968.6		1,958.1		1,966.3	1,973.2

- (1) In accordance with ASC 326, which requires the provision for credit losses on AFS securities to be included in revenue.
- (2) This total excludes the provision for credit losses on AFS securities, which is disclosed separately above.
- (3) Due to rounding, earnings per share on continuing operations and discontinued operations may not sum to earnings per share on net income.

The Notes to the Consolidated Financial Statements are an integral part of these Consolidated Financial Statements.

# CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME (UNAUDITED)

Citigroup Inc. and Subsidiaries

	T	hree Months Ende	ed June 30,	Six Months Ended June 30,						
In millions of dollars		2023	2022	2023	2022					
Citigroup's net income	\$	2,915 \$	4,547	\$ 7,521 \$	8,853					
Add: Citigroup's other comprehensive income <sup>(1)</sup>										
Net change in unrealized gains and losses on debt securities, net of $taxes^{(2)}$	\$	126 \$	(1,501)	§ 962 \$	(5,778)					
Net change in debt valuation adjustment (DVA), net of taxes <sup>(3)</sup>		(619)	1,967	(944)	2,760					
Net change in cash flow hedges, net of taxes		171	(666)	532	(2,207)					
Benefit plans liability adjustment, net of taxes <sup>(4)</sup>		(136)	(89)	(240)	82					
Net change in CTA, net of taxes and hedges		23	(1,630)	864	(1,644)					
Net change in excluded component of fair value hedges, net of taxes		17	9	(3)	57					
Net change in long-duration insurance contracts, net of taxes		(6)	_	(1)						
Citigroup's total other comprehensive income (loss)	\$	(424) \$	(1,910)	\$ 1,170 \$	(6,730)					
Citigroup's total comprehensive income	\$	2,491 \$	2,637	\$ 8,691 \$	2,123					
Add: Other comprehensive income (loss) attributable to noncontrolling interests		14	(53)	46	(82)					
Add: Net income (loss) attributable to noncontrolling interests		36	21	81	38					
Total comprehensive income	\$	2,541 \$	2,605	<b>8,818</b> \$	2,079					

(1) See Note 18.

(3) See Note 22.

(4) See Note 8.

The Notes to the Consolidated Financial Statements are an integral part of these Consolidated Financial Statements.

<sup>(2)</sup> See Note 12.

## **CONSOLIDATED BALANCE SHEET**

Citigroup Inc. and Subsidiaries

In millions of dollars	June 30, 2023 (Unaudited)	December 31, 2022
Assets		
Cash and due from banks (including segregated cash and other deposits)	\$ 25,763 \$	30,577
Deposits with banks, net of allowance	271,145	311,448
Securities borrowed and purchased under agreements to resell (including \$210,126 and \$239,527 as of June 30, 2023 and December 31, 2022, respectively, at fair value), net of allowance	337,103	365,401
Brokerage receivables, net of allowance	60,850	54,192
Trading account assets (including \$172,535 and \$133,535 pledged to creditors as of June 30, 2023 and December 31, 2022, respectively)	423,189	334,114
Investments:		
Available-for-sale debt securities (including \$11,754 and \$10,933 pledged to creditors as of June 30, 2023 and December 31, 2022, respectively)	237,334	249,679
Held-to-maturity debt securities, net of allowance (fair value of which is \$238,021 and \$243,648 as of June 30, 2023 and December 31, 2022, respectively) (includes \$21 and \$0 pledged to creditors as of June 30, 2023 and December 31, 2022, respectively)	262,066	268,863
Equity securities (including \$729 and \$895 as of June 30, 2023 and December 31, 2022, respectively, at fair value)	7,745	8,040
Total investments	\$ 507,145 \$	526,582
Loans:		
Consumer (including \$237 and \$237 as of June 30, 2023 and December 31, 2022, respectively, at fair value)	374,591	368,067
Corporate (including \$5,529 and \$5,123 as of June 30, 2023 and December 31, 2022, respectively, at fair value)	286,021	289,154
Loans, net of unearned income	\$ 660,612 \$	657,221
Allowance for credit losses on loans (ACLL)	(17,496)	(16,974)
Total loans, net	\$ 643,116 \$	640,247
Goodwill	19,998	19,691
Intangible assets (including MSRs at fair value of \$681 and \$665 as of June 30, 2023 and December 31, 2022, respectively)	4,576	4,428
Premises and equipment, net of depreciation and amortization	27,818	26,253
Other assets (including \$13,637 and \$10,658 as of June 30, 2023 and December 31, 2022, respectively, at fair value), net of allowance	102,972	103,743
Total assets	\$ 2,423,675 \$	2,416,676

Statement continues on the next page.

## CONSOLIDATED BALANCE SHEET (Continued)

In millions of dollars, except shares and per share amounts	(	June 30, 2023 (Unaudited)	December 31, 2022
Liabilities			
Deposits (including \$2,598 and \$1,875 as of June 30, 2023 and December 31, 2022, respectively, at fair value)	\$	1,319,867 \$	1,365,954
Securities loaned and sold under agreements to repurchase (including \$62,800 and \$70,886 as of June 30, 2023 and December 31, 2022, respectively, at fair value)		260,035	202,444
Brokerage payables (including \$5,989 and \$4,439 as of June 30, 2023 and December 31, 2022, respectively, at fair value)		69,433	69,218
Trading account liabilities		170,664	170,647
Short-term borrowings (including \$5,622 and \$6,222 as of June 30, 2023 and December 31, 2022, respectively, at fair value)		40,430	47,096
Long-term debt (including \$115,937 and \$105,995 as of June 30, 2023 and December 31, 2022, respectively, at fair value)		274,510	271,606
Other liabilities, plus allowances		79,314	87,873
Total liabilities	\$	2,214,253 \$	2,214,838
Stockholders' equity			
Preferred stock (\$1.00 par value; authorized shares: 30 million), issued shares: <b>as of June 30, 2023</b> — <b>809,800</b> and as of December 31, 2022—759,800, at aggregate liquidation value	\$	20,245 \$	18,995
Common stock (\$0.01 par value; authorized shares: 6 billion), issued shares: <b>as of June 30, 2023</b> — <b>3,099,691,671</b> and as of December 31, 2022—3,099,669,424		31	31
Additional paid-in capital		108,579	108,458
Retained earnings		199,976	194,734
Treasury stock, at cost: <b>June 30, 2023—1,173,989,187 shares</b> and December 31, 2022—1,162,682,999 shares		(74,247)	(73,967)
Accumulated other comprehensive income (loss) (AOCI)		(45,865)	(47,062)
Total Citigroup stockholders' equity	\$	208,719 \$	201,189
Noncontrolling interests		703	649
Total equity	\$	209,422 \$	201,838
Total liabilities and equity	\$	2,423,675 \$	2,416,676

The Notes to the Consolidated Financial Statements are an integral part of these Consolidated Financial Statements.

## CONSOLIDATED STATEMENT OF CHANGES IN STOCKHOLDERS' EQUITY (UNAUDITED)

Citigroup Inc. and Subsidiaries

	Т	hree Months End	ed June 30,	Six Months Endec	l June 30,
In millions of dollars		2023	2022	2023	2022
Preferred stock at aggregate liquidation value					
Balance, beginning of period	\$	20,245 \$	18,995	\$ 18,995 \$	18,995
Issuance of new preferred stock		_	—	1,250	_
Balance, end of period	\$	20,245 \$	18,995	\$ 20,245 \$	18,995
Common stock and additional paid-in capital (APIC)					
Balance, beginning of period	\$	108,400 \$	108,081	\$ 108,489 \$	108,034
Employee benefit plans		210	160	126	206
Other		—		(5)	1
Balance, end of period	\$	108,610 \$	108,241	\$ 108,610 \$	108,241
Retained earnings					
Balance, beginning of period	\$	198,353 \$	187,962	\$ 194,734 \$	184,948
Adjustment to opening balance, net of taxes <sup>(1)</sup>					
Financial instruments—TDRs and vintage disclosures		_		290	
Adjusted balance, beginning of period	\$	198,353 \$	187,962	\$ 195,024 \$	184,948
Citigroup's net income		2,915	4,547	7,521	8,853
Common dividends <sup>(2)</sup>		(1,004)	(1,010)	(2,004)	(2,024
Preferred dividends		(288)	(238)	(565)	(517
Other (primarily reclassifications from APIC for preferred issuance costs on redemptions)		_	_	_	1
Balance, end of period	\$	199,976 \$	191,261	\$ 199,976 \$	191,261
Treasury stock, at cost					
Balance, beginning of period	\$	(73,262) \$	(73,744)	\$ (73,967) \$	(71,240)
Employee benefit plans <sup>(3)</sup>		15	6	720	502
Treasury stock acquired <sup>(4)</sup>		(1,000)	(250)	(1,000)	(3,250)
Balance, end of period	\$	(74,247) \$	(73,988)	\$ (74,247) \$	(73,988)
Citigroup's accumulated other comprehensive income (loss)					
Balance, beginning of period	\$	(45,441) \$	(43,585)	\$ (47,062) \$	(38,765
Adjustment to opening balance, net of taxes <sup>(1)</sup>		_		27	
Adjusted balance, beginning of period	\$	(45,441) \$	(43,585)	\$ (47,035) \$	(38,765
Citigroup's total other comprehensive income		(424)	(1,910)	1,170	(6,730
Balance, end of period	\$	(45,865) \$	(45,495)	(45,865) \$	(45,495)
Total Citigroup common stockholders' equity	\$	188,474 \$	180,019	188,474 \$	180,019
Total Citigroup stockholders' equity	\$	208,719 \$	199,014	\$ 208,719 \$	199,014
Noncontrolling interests					
Balance, beginning of period	\$	724 \$	644	\$ 649 \$	700
Transactions between Citigroup and noncontrolling-interest shareholders		1	(1)	1	(34
Net income attributable to noncontrolling-interest shareholders		36	21	81	38
Distributions paid to noncontrolling-interest shareholders		(71)	(1)	(82)	(11)
Other comprehensive income (loss) attributable to noncontrolling- interest shareholders		14	(53)	46	(82
Other		(1)	2	8	1
Net change in noncontrolling interests	\$	(21) \$	(32)	\$ 54 \$	(88)
Balance, end of period	\$	703 \$	612	703 \$	612
Total equity	\$	209,422 \$	199,626	\$ 209,422 \$	199,626

(1) See Note 1 for additional details.

(2) Common dividends declared were \$0.51 per share for each of the first and second quarters of 2023 and 2022.

(3) Includes treasury stock related to (i) certain activity on employee stock option program exercises where the employee delivers existing shares to cover the option exercise, or (ii) under Citi's employee restricted or deferred stock programs where shares are withheld to satisfy tax requirements.

(4) Primarily consists of open market purchases under Citi's Board of Directors-approved common stock repurchase program.

The Notes to the Consolidated Financial Statements are an integral part of these Consolidated Financial Statements.

# CONSOLIDATED STATEMENT OF CASH FLOWS (UNAUDITED)

		Six Months Ended J	June 30,
In millions of dollars		2023	2022
Cash flows from operating activities of continuing operations			
Net income before attribution of noncontrolling interests	\$	7,602 \$	8,891
Net income attributable to noncontrolling interests		81	38
Citigroup's net income	\$	7,521 \$	8,853
Income (loss) from discontinued operations, net of taxes		(2)	(223)
Income from continuing operations—excluding noncontrolling interests	\$	7,523 \$	9,076
Adjustments to reconcile net income to net cash provided by (used in) operating activities of continuing operations			
Net loss (gain) on sale of significant disposals <sup>(1)</sup>		(1,059)	_
Depreciation and amortization		2,247	2,089
Deferred income taxes <sup>(2)</sup>		(852)	(228)
Provisions for credit losses and for benefits and claims <sup>(2)</sup>		3,799	2,029
Realized gains from sales of investments		(121)	(22)
Impairment losses on investments and other assets		157	186
Goodwill impairment		_	535
Change in trading account assets		(89,164)	(8,974)
Change in trading account liabilities		17	18,924
Change in brokerage receivables net of brokerage payables		(6,443)	8,898
Change in loans held-for-sale (HFS)		1,405	4,504
Change in other assets		(4,884)	(3,222)
Change in other liabilities		(3,101)	(2,117)
Other, $net^{(2)(3)}$		5,932	(17,434)
Total adjustments	\$	(92,067) \$	5,168
Net cash provided by (used in) operating activities of continuing operations	\$	(84,544) \$	14,244
Cash flows from investing activities of continuing operations			
Change in securities borrowed and purchased under agreements to resell	\$	28,298 \$	(34,046)
Change in loans		(8,750)	(14,790)
Proceeds from divestitures <sup>(1)</sup>		_	1,940
Proceeds from sales and securitizations of loans		2,154	1,562
Net payment due to transfer of net liabilities associated with divestitures <sup>(1)</sup>		(29)	_
Available-for-sale (AFS) debt securities			
Purchases of investments <sup>(2)(3)</sup>		(114,278)	(123,569)
Proceeds from sales of investments		29,897	79,952
Proceeds from maturities of investments <sup>(2)(3)</sup>		105,204	60,777
Held-to-maturity (HTM) debt securities			
Purchases of investments		(664)	(34,317)
Proceeds from maturities of investments		4,369	5,821
Capital expenditures on premises and equipment and capitalized software		(3,125)	(2,465)
Proceeds from sales of premises and equipment, subsidiaries and affiliates		11	31
and repossessed assets		(370)	(1,710)
and repossessed assets Other, $net^{(2)(3)(4)}$			((0.014)
and repossessed assets Other, net <sup>(2)(3)(4)</sup>	\$	42,717 \$	(60,814)
and repossessed assets Other, net <sup>(2)(3)(4)</sup> Net cash provided by (used in) investing activities of continuing operations	\$	42,717 \$	(60,814
and repossessed assets	\$ \$	42,717 \$ (2,547) \$	(60,814)

## CONSOLIDATED STATEMENT OF CASH FLOWS

## (UNAUDITED) (Continued)

	 Six Months Ended	June 30,
In millions of dollars	2023	2022
Treasury stock acquired	\$ (1,000) \$	(3,200)
Stock tendered for payment of withholding taxes	(322)	(334)
Change in securities loaned and sold under agreements to repurchase	57,591	7,187
Issuance of long-term debt	32,689	60,304
Payments and redemptions of long-term debt	(35,984)	(28,439)
Change in deposits	(46,087)	25,360
Change in short-term borrowings	(6,666)	12,081
Net cash provided by (used in) financing activities of continuing operations	\$ (1,081) \$	70,445
Effect of exchange rate changes on cash and due from banks	\$ (2,209) \$	(1,878)
Change in cash, due from banks and deposits with banks	(45,117)	21,997
Cash, due from banks and deposits with banks at beginning of period	342,025	262,033
Cash, due from banks and deposits with banks at end of period	\$ 296,908 \$	284,030
Cash and due from banks (including segregated cash and other deposits)	\$ 25,763 \$	24,902
Deposits with banks, net of allowance	271,145	259,128
Cash, due from banks and deposits with banks at end of period	\$ 296,908 \$	284,030
Supplemental disclosure of cash flow information for continuing operations		
Cash paid during the period for income taxes	\$ 3,031 \$	1,661
Cash paid during the period for interest	31,803	6,284
Non-cash investing activities <sup>(1)(4)(5)</sup>		
Transfer of investment securities from HTM to AFS	\$ 3,324 \$	_
Transfer of investment securities from AFS to HTM	—	21,522
Decrease in net loans associated with divestitures reclassified to HFS	—	17,758
Decrease in goodwill associated with divestitures reclassified to HFS	—	873
Transfers to loans HFS (Other assets) from loans HFI	4,730	1,874
Transfers from loans HFS (Other assets) to loans HFI	322	—
Non-cash financing activities <sup>(1)</sup>		
Decrease in deposits associated with divestitures reclassified to HFS	\$ — \$	20,741
Decrease in long-term debt associated with divestitures reclassified to HFS		

(1) See Note 2 for further information on significant disposals.

(2) 2022 amounts have been revised to conform to the current-period presentation.

(3) Consistent with the revisions disclosed in "Statement of Cash Flows" in Note 1 to the Consolidated Financial Statements in Citi's 2022 Form 10-K, during the six months ended June 30, 2022, \$16.1 billion of cash flows related to maturities of short-term negotiable certificates of deposit (NCDs) and \$41 million of cash flows related to purchases of short-term NCDs were reclassified from purchases and maturities of AFS securities within investing activities to *Other, net* within operating activities.

(4) In January 2023, Citi adopted ASU 2022-01. Upon adoption, Citi transferred \$3.3 billion of mortgage-backed securities from HTM classification to AFS classification as allowed under the ASU. At the time of transfer, the securities were in an unrealized gain position of \$0.1 billion, which was recorded in AOCI upon transfer. See Note 1.

(5) Operating and finance lease right-of-use assets and lease liabilities represent non-cash investing and financing activities, respectively, and are not included in the non-cash investing activities presented here. See Note 25 for more information and balances as of June 30, 2023.

The Notes to the Consolidated Financial Statements are an integral part of these Consolidated Financial Statements.

## 1. BASIS OF PRESENTATION, UPDATED ACCOUNTING POLICIES AND ACCOUNTING CHANGES

### **Basis of Presentation**

The accompanying unaudited Consolidated Financial Statements as of June 30, 2023 and for the three- and sixmonth periods ended June 30, 2023 and 2022 include the accounts of Citigroup Inc. and its consolidated subsidiaries.

In the opinion of management, all adjustments, consisting of normal recurring adjustments, necessary for a fair presentation have been reflected. The accompanying unaudited Consolidated Financial Statements should be read in conjunction with the Consolidated Financial Statements and related notes included within Citigroup's Annual Report on Form 10-K for the year ended December 31, 2022 (2022 Form 10-K) and Citigroup's Quarterly Report on Form 10-Q for the quarter ended March 31, 2023 (First Quarter of 2023 Form 10-Q).

Certain financial information that is normally included in annual financial statements prepared in accordance with U.S. generally accepted accounting principles (GAAP), but is not required for interim reporting purposes, has been condensed or omitted.

Management must make estimates and assumptions that affect the Consolidated Financial Statements and the related footnote disclosures. While management uses its best judgment, actual results could differ from those estimates.

As noted above, the Notes to these Consolidated Financial Statements are unaudited.

Throughout these Notes, "Citigroup," "Citi" and "the Company" refer to Citigroup Inc. and its consolidated subsidiaries.

Certain reclassifications and updates have been made to the prior periods' financial statements and notes to conform to the current period's presentation.

Cash equivalents are defined as those amounts included in *Cash and due from banks* and predominately all of *Deposits with banks*. Cash flows from risk management activities are classified in the same category as the related assets and liabilities. Amounts included in *Cash and due from banks* and *Deposits with banks* approximate fair value.

## UPDATED SIGNIFICANT ACCOUNTING POLICIES

The accounting policies below have been updated from those disclosed in Citi's 2022 Annual Report on Form 10-K (2022 Form 10-K) as a result of accounting standards adopted during the first quarter of 2023.

See Note 1 to the Consolidated Financial Statements in Citi's 2022 Form 10-K for a summary of all of Citigroup's significant accounting policies.

## Allowances for Credit Losses (ACL)

Beginning January 1, 2023, Citi adopted Accounting Standards Update (ASU) No. 2022-02, *Financial Instruments* —*Credit Losses (Topic 326): Troubled Debt Restructurings and Vintage Disclosures* under the methodology described below. For information about Citi's accounting for troubled debt restructurings (TDRs) prior to January 1, 2023, see Note 1 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

## ACCOUNTING CHANGES

## **TDRs and Vintage Disclosures**

In March 2022, the FASB issued ASU No. 2022-02, *Financial Instruments—Credit Losses (Topic 326): Troubled Debt Restructurings and Vintage Disclosures.* Citi adopted the ASU on January 1, 2023. Citi adopted the guidance on the recognition and measurement of TDRs under the modified retrospective approach.

Adopting these amendments resulted in a decrease to the ACLL of \$352 million and an increase in other assets related to held-for-sale businesses of \$44 million, with a corresponding increase to retained earnings of \$290 million and a decrease in deferred tax assets of \$106 million on January 1, 2023. The ACL for corporate loans was unaffected because the measurement approach used for corporate loans is not in the scope of this ASU.

ASU 2022-02 eliminates the accounting and disclosure requirements for TDRs, including the requirement to measure the ACLL for TDRs using a discounted cash flow (DCF) approach. With the elimination of TDR accounting requirements, reasonably expected TDRs are no longer considered when determining the term over which to estimate expected credit losses. The ACLL for modified loans that are collateral dependent continues to be based on the fair value of the collateral.

#### Consumer Loans

Upon adoption of the ASU on January 1, 2023, Citi discontinued the use of a DCF approach for consumer loans formerly considered TDRs. Beginning January 1, 2023, Citi measures the ACLL for all consumer loans under approaches that do not incorporate discounting, primarily utilizing models that consider the borrowers' probability of default, loss given default and exposure at default. In addition, upon adoption of the ASU, Citi collectively evaluates smaller-balance homogenous loans formerly considered TDRs for expected credit losses, whereas previously those loans had been individually evaluated.

The ASU also requires disclosure of modifications of loans to borrowers experiencing financial difficulty if the modification involves principal forgiveness, an interest rate reduction, an other-than-insignificant payment delay, a term extension or a combination of those types of modifications. In addition, the ASU requires the disclosure of current-period gross write-offs by year of loan origination (vintage). The amendments related to disclosures are required to be applied prospectively beginning as of the date of adoption. See Note 13 for these new disclosures for periods beginning on and after January 1, 2023.

### **Long-Duration Insurance Contracts**

In August 2018, the FASB issued ASU No. 2018-12, Financial Services—Insurance: Targeted Improvements to the Accounting for Long-Duration Contracts, which changes the existing recognition, measurement, presentation and disclosures for long-duration contracts issued by an insurance entity. Specifically, the guidance (i) improves the timeliness of recognizing changes in the liability for future policy benefits and prescribes the rate used to discount future cash flows for long-duration insurance contracts, (ii) simplifies and improves the accounting for certain market-based options or guarantees associated with deposit (or account balance) contracts, (iii) simplifies the amortization of deferred acquisition costs and (iv) introduces additional quantitative and qualitative disclosures. Citi has certain insurance subsidiaries, primarily in Mexico, that issue long-duration insurance contracts such as traditional life insurance policies and life-contingent annuity contracts that are impacted by the requirements of ASU 2018-12.

Citi adopted the targeted improvements in ASU 2018-12 on January 1, 2023, resulting in a \$39 million decrease in *Other liabilities* and a \$27 million increase in *AOCI*, after-tax.

## FUTURE ACCOUNTING CHANGES

## Accounting for Investments in Tax Credit Structures

In March 2023, the FASB issued ASU No. 2023-02, Investments—Equity Method and Joint Ventures (Topic 323): Accounting for Investments in Tax Credit Structures Using the Proportional Amortization Method. The ASU expands the scope of tax equity investments eligible to apply the proportional amortization method of accounting. Under the proportional amortization method, the cost of an eligible investment is amortized in proportion to the income tax credits and other income tax benefits that are received by the investor, with the amortization of the investment and the income tax credits being presented net in the income statement as components of income tax expense (benefit). Prior to the issuance of this ASU, use of the proportional amortization method was limited to tax equity investments in Low-Income Housing Tax Credit (LIHTC) structures, and all other tax equity investments were typically accounted for using the equity method of accounting, which resulted in investment income, gains and losses, and tax credits being presented gross on the income statement in their respective line items. The ASU will permit the Company to elect to use the proportional amortization method to account for all eligible tax equity investments, regardless of the tax credit program from which the income tax credits are received, if certain conditions are met. For public entities, the ASU is effective for fiscal years beginning after December 15, 2023, although early adoption is permitted in any interim period. However, if an entity adopts the amendments in an interim period, it shall adopt them as of the beginning of the fiscal year that includes that interim period. Adoption of the ASU must be applied on either a retrospective or a modified retrospective basis. Citi plans to adopt the ASU on January 1, 2024 and is currently evaluating the impact of the standard on tax equity investments. Citi does not expect a material impact to its results of operations as a result of adopting the standard.

## Fair Value Measurement of Equity Securities Subject to Contractual Sale Restrictions

In June 2022, the FASB issued ASU No. 2022-03, *Fair Value Measurement (Topic 820): Fair Value Measurement of Equity Securities Subject to Contractual Sale Restrictions.* The ASU was issued to address diversity in practice whereby certain entities included the impact of contractual restrictions when valuing equity securities, and it clarifies that a contractual restriction on the sale of an equity security should not be considered part of the unit of account of the equity security and, therefore, should not be considered in measuring fair value. The ASU also includes requirements for entities to disclose the fair value of equity securities subject to contractual sale restrictions, the nature and remaining duration of the restrictions and the circumstances that could cause a lapse in the restrictions.

The ASU is to be adopted on a prospective basis and will be effective for Citi on January 1, 2024, although early adoption is permitted. Adoption of the accounting standard is not expected to have an impact on Citi's operating results or financial position, as the Company does not include such restrictions when valuing equity securities.

## 2. DISCONTINUED OPERATIONS, SIGNIFICANT DISPOSALS AND OTHER BUSINESS EXITS

## **Summary of Discontinued Operations**

The Company's results from *Discontinued operations* consisted of residual activities related to the sales of the Egg Banking plc credit card business in 2011 and the German retail banking business in 2008. All *Discontinued operations* results are recorded within *Corporate/Other*.

The following table summarizes financial information for all *Discontinued operations*:

	-	hree Mo nded Ju		E		Months   June 30,			
In millions of dollars	2	023	2022	2	2023	2	2022		
Total revenues, net of interest expense	\$	— \$	(262)	\$	_	\$	(262)		
Income (loss) from discontinued operations	\$	(1) \$	(262)	\$	(2)	\$	(264)		
Benefit for income taxes			(41)				(41)		
Income (loss) from discontinued operations, net of taxes	\$	(1) \$	(221)	\$	(2)	\$	(223)		

During the second quarter of 2022, the Company finalized the settlement of certain liabilities related to its legacy consumer operation in the U.K. (the legacy operation), including an indemnification liability related to its sale of the Egg Banking business in 2011, which led to the substantial liquidation of the legacy operation. As a result, a CTA loss (net of hedges) in AOCI of approximately \$400 million pretax (\$345 million after-tax) related to the legacy operation was released to earnings in the second quarter of 2022. Out of the total CTA release, a \$260 million pretax loss (\$221 million after-tax loss) was attributable to the Egg Banking business noted above, reported in Discontinued operations, and therefore the corresponding CTA release was also reported in Discontinued operations during the second quarter of 2022. The remaining CTA release of a \$140 million pretax loss (\$124 million after-tax loss) related to Legacy Holdings Assets was reported as part of Continuing operations within Legacy Franchises.

While the legacy operation was divested in multiple sales over the years, each transaction did not result in substantial liquidation given that Citi retained certain liabilities noted above, which were gradually settled over time until reaching the point of substantial liquidation during the second quarter of 2022, triggering the release of the CTA loss to earnings.

Cash flows from *Discontinued operations* were not material for the periods presented.

## **Significant Disposals**

As of June 30, 2023, Citi had entered into sale agreements for nine consumer banking businesses within *Legacy Franchises*. Australia closed in the second quarter of 2022, the Philippines closed in the third quarter of 2022, Bahrain, Malaysia and Thailand closed in the fourth quarter of 2022, and India and Vietnam closed in the first quarter of 2023. Entry of sale agreements for the Taiwan and Indonesia consumer banking businesses has resulted in the reclassification to HFS on the Consolidated Balance Sheet of approximately \$14 billion in assets within *Other assets*, including approximately \$8 billion of loans (net of allowance of \$68 million), and approximately \$11 billion in liabilities within *Other liabilities*, including approximately \$11 billion in deposits. Of the nine sale agreements, the five below were identified as significant disposals as of June 30, 2023. The Taiwan sale has yet to close and is subject to regulatory approvals and other closing conditions.

				June 30, 2023																
In millions of do	llars						Ass	ets								Lia	biliti	es		
Consumer banking business in	Sale agreement date	Closing date	a dep w	ash nd osits ith nks	Lo	bans <sup>(1)</sup>	Goody	will	a ad to	Other ssets, vances o/from sidiaries		other	Tota asse		Deposits	t	ong- erm lebt		her llities	lotal bilities
Australia <sup>(2)</sup>	8/9/2021	6/1/2022	\$	_	\$	_	\$		\$	_	\$		\$ ·	_	<b>\$</b> —	• \$	_	\$		\$ _
Philippines <sup>(3)</sup>	12/23/2021	8/1/2022										—				-			—	—
Thailand <sup>(4)</sup>	1/14/2022	11/1/2022	\$	_	\$	_	\$		\$	_	\$	—	\$ ·	_	<b>\$</b> —	• \$	_	\$	—	\$ _
India <sup>(5)</sup>	3/30/2022	3/1/2023										—							—	_
Taiwan <sup>(6)</sup>	1/28/2022	second half 2023	\$	96	\$	7,652	\$	196	\$	4,441	\$	185	\$12,5	70	\$ 9,657	\$		\$	236	\$ 9,893

		Income (loss) before taxes <sup>(7)</sup>											
			e Month June 3		Si	x Month June	s Ended 30,						
In millions of dollars		202	23	2022	2	023	2022						
Australia <sup>(2)</sup>		\$	— \$	28	\$	— 3	\$ 193						
Philippines <sup>(3)</sup>			—	14		—	65						
Thailand <sup>(4)</sup>			—	90		_	78						
India <sup>(5)</sup>				52		2	125						
Taiwan <sup>(6)</sup>			35	50		91	96						

(1) Loans, net of allowance as of June 30, 2023 includes \$31 million for Taiwan.

- (2) On June 1, 2022, Citi completed the sale of its Australia consumer banking business, which was part of *Legacy Franchises*. The business had approximately \$9.4 billion in assets, including \$9.3 billion of loans (net of allowance of \$140 million) and excluding goodwill. The total amount of liabilities was \$7.3 billion including \$6.8 billion in deposits. The transaction generated a pretax loss on sale of approximately \$760 million (\$640 million after-tax), subject to closing adjustments, recorded in *Other revenue*. The loss on sale primarily reflected the impact of an approximate pretax \$620 million CTA loss (net of hedges) (\$470 million after-tax) already reflected in the *AOCI* component of equity. The sale closed on June 1, 2022, and the CTA-related balance was removed from *AOCI*, resulting in a neutral CTA impact to Citi's CET1 Capital. The income before taxes shown in the above table for Australia reflects Citi's ownership through June 1, 2022.
- (3) On August 1, 2022, Citi completed the sale of its Philippines consumer banking business, which was part of *Legacy Franchises*. The business had approximately \$1.8 billion in assets, including \$1.2 billion of loans (net of allowance of \$80 million) and excluding goodwill. The total amount of liabilities was \$1.3 billion, including \$1.2 billion in deposits. The sale resulted in a pretax gain on sale of approximately \$618 million (\$290 million after-tax), subject to closing adjustments, recorded in *Other revenue*. The income before taxes shown in the above table for the Philippines reflects Citi's ownership through August 1, 2022.
- (4) On November 1, 2022, Citi completed the sale of its Thailand consumer banking business, which was part of *Legacy Franchises*. The business had approximately \$2.7 billion in assets, including \$2.4 billion of loans (net of allowance of \$67 million) and excluding goodwill. The total amount of liabilities was \$1.0 billion, including \$0.8 billion in deposits. The sale resulted in a pretax gain on sale of approximately \$209 million (\$115 million after-tax), subject to closing adjustments, recorded in *Other revenue*. The income before taxes shown in the above table for Thailand reflects Citi's ownership through November 1, 2022.
- (5) On March 1, 2023, Citi completed the sale of its India consumer banking business, which was part of *Legacy Franchises*. The business had approximately \$5.2 billion in assets, including \$3.4 billion of loans (net of allowance of \$32 million) and excluding goodwill. The total amount of liabilities was \$5.2 billion, including \$5.1 billion in deposits. The sale resulted in a pretax gain on sale of approximately \$1.1 billion (\$727 million after-tax), subject to closing adjustments, recorded in *Other revenue*. The income before taxes shown in the above table for India reflects Citi's ownership through March 1, 2023.
- (6) This sale is expected to result in an after-tax gain upon closing.
- (7) Income before taxes for the period in which the individually significant component was classified as HFS for all prior periods presented. For Australia, excludes the pretax loss on sale. For the Philippines, Thailand and India, excludes the pretax gain on sale.

Citi did not have any other significant disposals as of June 30, 2023. As of August 4, 2023, Citi had not entered into sale agreements for the remaining *Legacy Franchises* businesses to be sold, specifically the Poland consumer banking business and the Mexico Consumer/SBMM businesses.

For a description of the Company's significant disposal transactions in prior periods and financial impact, see Note 2 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

### **Other Business Exits**

## Wind-Down of Korea Consumer Banking Business

On October 25, 2021, Citi disclosed its decision to wind down and close its Korea consumer banking business, which is reported in the *Legacy Franchises* operating segment. In connection with the announcement, Citibank Korea Inc. (CKI) commenced a voluntary early termination program (Korea VERP). Due to the voluntary nature of this termination program, no liabilities for termination benefits are recorded until CKI makes formal offers to employees that are then irrevocably accepted by those employees. Related charges are recorded as *Compensation and benefits*.

The following table summarizes the reserve charges related to the Korea VERP and other initiatives reported in the *Legacy Franchises* operating segment and *Corporate/Other*:

In millions of dollars	te	Employee ermination costs
Total Citigroup (pretax)		
Original charges in fourth quarter 2021	\$	1,052
Utilization		(1)
Foreign exchange		3
Balance at December 31, 2021	\$	1,054
Additional charges in first quarter 2022	\$	31
Utilization		(347)
Foreign exchange		(24)
Balance at March 31, 2022	\$	714
Additional charges (releases)	\$	(3)
Utilization		(670)
Foreign exchange		(41)
Balance at June 30, 2022	\$	

Note: There were no additional charges after June 30, 2022.

The total cash charges for the wind-down were \$1.1 billion through 2022, most of which were recognized in 2021. Citi does not expect to record any additional charges in connection with the Korea VERP.

See Note 8 to the Consolidated Financial Statements in Citi's 2022 Form 10-K for details on the pension impact of the Korea wind-down.

## Wind-Down of Russia Consumer and Institutional Banking Businesses

On August 25, 2022, Citi announced its decision to wind down its consumer banking and local commercial banking operations in Russia. As part of the wind-down, Citi is also actively pursuing sales of certain Russian consumer banking portfolios.

On October 14, 2022, Citi disclosed that it will be ending nearly all of the institutional banking services it offers in Russia by the end of the first quarter of 2023. Going forward, Citi's only operations in Russia will be those necessary to fulfill its remaining legal and regulatory obligations.

On December 12, 2022, Citi completed the sale of a portfolio of ruble-denominated personal installment loans, totaling approximately \$240 million in outstanding loan balances, to Uralsib, a Russian commercial bank, resulting in a pretax net loss of approximately \$12 million. The net loss on sale of the loan portfolio included a \$32 million adjustment to record the loans at lower of cost or fair value recognized in *Other revenue*. In addition, the sale of the loans resulted in a release in the allowance for credit losses on loans of approximately \$20 million recognized in the *Provision for credit losses on loans*.

During the second quarter of 2023, Citi recorded an incremental gain of \$5 million related to post-closing contingency payments for the previously disclosed personal installment loan sale in *Other revenue*. The previously disclosed sale of a portfolio of ruble-denominated personal installment loans resulted in a pretax net loss on sale of approximately \$7 million.

Citi's previously disclosed referral agreement with a Russian bank to settle a portfolio of ruble-denominated credit card loans, subject to customer consents, was signed in May 2023 and is in the execution phase. The outstanding amount with Citi is to be settled upon referral and refinancing. As a result, the portfolio will remain held-for-investment and will not be transferred to held-for-sale.

During the second quarter of 2023, Citi recorded a pretax release of approximately \$1 million and a pretax charge of approximately \$2 million (approximately \$29 million and \$12 million program-to-date) as *Compensation and benefits* composed of severance costs, reported in *Legacy Franchises* and *Institutional Clients Group*, respectively. Citi also recorded a pretax charge of approximately \$4 million (approximately \$17 million program-to-date) as *Other operating expenses* composed of vendor termination and other costs, reported in *Legacy Franchises*.

In connection with this wind-down, Citi expects to incur approximately \$180 million in total estimated charges (\$40 million in *ICG* and \$140 million in *Legacy Franchises*, excluding the impact from any portfolio sales), of which approximately \$58 million has been incurred program-to-date, largely driven by restructuring, vendor termination fees and other related charges.

### 3. OPERATING SEGMENTS

The operating segments and reporting units reflect how the CEO, who is the chief operating decision maker, manages the Company, including allocating resources and measuring performance.

Citigroup's activities are conducted through three operating segments: *Institutional Clients Group (ICG)*, *Personal Banking and Wealth Management (PBWM)* and *Legacy Franchises*, with *Corporate/Other* including activities not assigned to a specific operating segment, as well as discontinued operations.

*ICG* consists of Services, Markets and Banking, providing corporate, institutional and public sector clients around the world with a full range of wholesale banking products and services.

*PBWM* consists of U.S. Personal Banking and Global Wealth Management (Global Wealth), providing traditional banking services and credit cards to retail and small business customers primarily in the U.S., and financial services to clients from affluent to ultra-high-net-worth through banking, lending, mortgages, investment, custody and trust product offerings in 20 countries, including the U.S., Mexico and the four wealth management centers: Singapore, Hong Kong, the UAE and London.

Legacy Franchises consists of Asia Consumer and Mexico Consumer/SBMM businesses that Citi intends to exit, and its remaining Legacy Holdings Assets. *Corporate/Other* includes activities not assigned to the operating segments, including certain unallocated costs of global functions, other corporate expenses and corporate treasury results, offsets to certain line-item reclassifications and eliminations, and unallocated taxes, as well as discontinued operations.

Revenues and expenses directly associated with each respective business segment or component are included in determining respective operating results. Other revenues and expenses that are not directly attributable to a particular business segment or component are generally allocated from *Corporate/Other* based on respective net revenues, noninterest expenses or other relevant measures.

As a result of revenues and expenses from transactions with other operating segments or components being treated as transactions with external parties for purposes of segment disclosures, the Company includes intersegment eliminations within *Corporate/Other* to reconcile the business segment results to Citi's consolidated results.

The accounting policies of these operating segments are the same as those disclosed in Note 1 to the Consolidated Financial Statements in Citi's 2022 Form 10-K. The following tables present certain information regarding the Company's continuing operations by operating segment and *Corporate/ Other*:

	Three Months Ended June 30,													
In millions of dollars, except identifiable assets,	10	CG	PB	WM		gacy Ichises	Corporate/Other	Total Citi						
average loans and average deposits in billions	2023	<b>023</b> 2022 <b>2</b>		<b>2023</b> 2022		2022	<b>2023</b> 2022	<b>2023</b> 2022						
Net interest income	\$ 5,623	\$ 4,520	\$ 5,963	\$ 5,569	\$ 1,345	\$ 1,474	<b>\$ 969 \$</b> 401	<b>\$ 13,900 \$</b> 11,964						
Non-interest revenue	4,818	6,899	432	460	578	461	(292) (146	<b>5,536</b> 7,674						
Total revenues, net of interest expense	\$10,441	\$11,419	\$ 6,395	\$ 6,029	\$ 1,923	\$ 1,935	<b>\$ 677 \$</b> 255	<b>\$ 19,436 \$</b> 19,638						
Operating expense	7,286	6,434	4,204	3,985	1,778	1,814	<b>302</b> 160	<b>13,570</b> 12,393						
Provisions (releases) for credit losses	58	(202)	1,579	1,355	300	121	(113) —	<b>1,824</b> 1,274						
Income (loss) from continuing operations before taxes	\$ 3,097	\$ 5,187	\$ 612	\$ 689	\$ (155	)\$ —	<b>\$ 488</b> \$ 95	<b>\$ 4,042 \$</b> 5,971						
Provision (benefits) for income taxes	878	1,209	118	136	(33	) 15	<b>127</b> (178	<b>1,090</b> 1,182						
Income (loss) from continuing operations	\$ 2,219	\$ 3,978	\$ 494	\$ 553	\$ (122	) \$ (15)	<b>\$ 361 \$</b> 273	<b>\$ 2,952 \$</b> 4,789						
Identifiable assets (June 30, 2023 and December 31, 2022)	\$ 1,765	\$ 1,730	\$ 473	\$ 494	\$ 92	\$ 97	<b>\$ 94</b> \$ 96	<b>\$ 2,424 \$</b> 2,417						
Average loans	278	297	339	317	37	43		<b>654</b> 657						
Average deposits	837	830	431	435	51	51	19 7	<b>1,338</b> 1,323						

		Six Months Ended June 30,															
In millions of dollars, success monopologues and	I	ICG			WM		Leg Fran	gacy chise	es	C	Corpora	te/0	Other		Total Citi		
In millions of dollars, except average loans and average deposits in billions	2023	<b>2023</b> 2022		2023	2022		2023	20	022	2023		2	2022		2023		2022
Net interest income	\$10,651	\$ 8,30	4 \$	11,897	\$10,954	\$	2,635	\$ 2	2,982	\$	2,065	\$	595	\$	27,248	\$	22,835
Non-interest revenue	11,023	14,27	5	946	980		2,140		884		(474)		(150)		13,635		15,989
Total revenues, net of interest expense	\$21,674	\$22,57	9 \$	12,843	\$11,934	\$	4,775	\$ 3	3,866	\$	1,591	\$	445	\$	40,883	\$	38,824
Operating expense	14,259	13,15	7	8,458	7,874		3,530	2	4,107		612		420		26,859		25,558
Provisions for credit losses	(14	) 76	9	3,170	979		645		281		(2)				3,799		2,029
Income (loss) from continuing operations before taxes	\$ 7,429	\$ 8,65	3 \$	1,215	\$ 3,081	\$	600	\$	(522)	\$	981	\$	25	\$	10,225	\$	11,237
Provision (benefits) for income taxes	1,912	2,01	7	232	668		116		(122)		361		(440)		2,621		2,123
Income (loss) from continuing operations	\$ 5,517	\$ 6,63	6 \$	983	\$ 2,413	\$	484	\$	(400)	\$	620	\$	465	\$	7,604	\$	9,114
Average loans	\$ 281	\$ 29	3 \$	336	\$ 315	\$	37	\$	45	\$	_	\$	_	\$	654	\$	653
Average deposits	845	82	8	433	441		51		53		22		6		1,351		1,328

## 4. INTEREST REVENUE AND EXPENSE

Interest revenue and Interest expense consisted of the following:

	Thre	e Months End	ed June 30,	Six Months E	Ended June 30,					
In millions of dollars		2023	2022	2023	2022					
Interest revenue										
Consumer loans	\$	8,962 \$	6,601	\$ 17,586	\$ 12,863					
Corporate loans		5,094	2,894	9,753	5,348					
Loan interest, including fees	\$	14,056 \$	9,495	\$ 27,339	\$ 18,211					
Deposits with banks		3,049	658	6,080	954					
Securities borrowed and purchased under agreements to resell		6,254	805	11,428	1,199					
Investments, including dividends		4,451	2,370	8,595	4,420					
Trading account assets <sup>(1)</sup>		3,752	1,659	6,499	2,805					
Other interest-earning assets <sup>(2)</sup>		1,085	643	2,101	1,192					
Total interest revenue	\$	32,647 \$	15,630	\$ 62,042	\$ 28,781					
Interest expense										
Deposits	\$	8,727 \$	1,420	\$ 16,435	\$ 2,291					
Securities loaned and sold under agreements to repurchase		4,953	655	8,519	937					
Trading account liabilities <sup>(1)</sup>		870	137	1,657	284					
Short-term borrowings and other interest-bearing liabilities <sup>(3)</sup>		1,777	268	3,426	323					
Long-term debt		2,420	1,186	4,757	2,111					
Total interest expense	\$	18,747 \$	3,666	\$ 34,794	\$ 5,946					
Net interest income	\$	13,900 \$	11,964	\$ 27,248	\$ 22,835					
Provision for credit losses on loans		1,761	1,384	3,498	1,644					
Net interest income after provision for credit losses on loans	\$	12,139 \$	10,580	\$ 23,750	\$ 21,191					

(1) Interest expense on *Trading account liabilities* of *ICG* is reported as a reduction of *Interest revenue*. *Interest revenue* and *Interest expense* on cash collateral positions are reported in interest on *Trading account assets* and *Trading account liabilities*, respectively.

(2) Includes assets from businesses held-for-sale (see Note 2) and *Brokerage receivables*.

(3) Includes liabilities from businesses held-for-sale (see Note 2) and Brokerage payables.

## 5. COMMISSIONS AND FEES; ADMINISTRATION AND OTHER FIDUCIARY FEES

For additional information on Citi's commissions and fees, and administration and other fiduciary fees, see Note 5 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

The following tables present Commissions and fees revenue:

	 Thre	e Months En	ded June 30	Six Months Ended June 30, 2023					
In millions of dollars	ICG	PBWM	Legacy Franchises	Tota	al	ICG	PBWM	Legacy Franchises	Total
Investment banking	\$ 598	\$	s —	\$	598	\$ 1,324	<b>\$</b> —	<b>\$</b> —	\$ 1,324
Brokerage commissions	360	182	34		576	774	359	78	1,211
Credit and bank card income									
Interchange fees	361	2,555	164	3	,080	694	4,902	334	5,930
Card-related loan fees	17	37	66		120	30	80	128	238
Card rewards and partner payments <sup>(1)</sup>	(202)	(2,904)	(91)	(3	,197)	(376)	(5,567)	(183)	(6,126)
Deposit-related fees <sup>(2)</sup>	272	18	9		299	524	58	17	599
Transactional service fees	303	6	25		334	592	10	50	652
Corporate finance <sup>(3)</sup>	86	_	_		86	185	3	_	188
Insurance distribution revenue	_	61	27		88	_	119	61	180
Insurance premiums	_	1	25		26	_	2	46	48
Loan servicing	8	11	4		23	17	26	7	50
Other	1	51	48		99	7	107	89	204
Total commissions and fees <sup>(4)</sup>	\$ 1,804	\$ 18	\$ 311	\$ 2	,132	\$ 3,771	<b>\$</b> 99	<b>\$ 627</b>	\$ 4,498

	 Three	e Months En	ded June 30, 2	2022	Six Months Ended June 30, 2022						
In millions of dollars	ICG	PBWM	Legacy Franchises	Total		ICG	PBWM	Legacy Franchises	Total		
Investment banking	\$ 845	\$ —	\$ —	\$ 845	\$	1,753	\$ —	\$ —	\$ 1,753		
Brokerage commissions	393	213	53	659		853	454	121	1,428		
Credit and bank card income											
Interchange fees	321	2,435	227	2,983		561	4,534	448	5,543		
Card-related loan fees	11	73	79	163		20	137	160	317		
Card rewards and partner payments <sup>(1)</sup>	(165)	(2,871)	(160)	(3,196)	)	(282)	(5,370)	(332)	(5,984)		
Deposit-related fees <sup>(2)</sup>	279	44	19	342		546	103	36	685		
Transactional service fees	267	5	26	298		521	9	52	582		
Corporate finance <sup>(3)</sup>	136	_	_	136		252	3	_	255		
Insurance distribution revenue		56	33	89		_	108	69	177		
Insurance premiums	_	1	22	23		_	2	46	48		
Loan servicing	7	12	4	23		19	22	7	48		
Other	3	49	35	87		2	97	69	168		
Total commissions and fees <sup>(4)</sup>	\$ 2,097	\$ 17	\$ 338	\$ 2,452	\$	4,245	\$ 99	\$ 676	\$ 5,020		

(1) Citi's consumer credit card programs have certain partner sharing agreements that vary by partner. These agreements are subject to contractually based performance thresholds that, if met, would require Citi to make ongoing payments to the partner. The threshold is based on the profitability of a program and is generally calculated based on predefined program revenues less predefined program expenses. In most of Citi's partner sharing agreements, program expenses include net credit losses and, to the extent that an increase in net credit losses reduces Citi's liability for the partners' share for a given program year, would generally result in lower payments to partners in total for that year and vice versa. Further, in some instances, other partner payments are based on program sales and new account acquisitions.

(2) Overdraft fees are accounted for under ASC 310. Citi eliminated overdraft fees, returned item fees and overdraft protection fees beginning in June 2022. Includes overdraft fees (prior to the elimination of overdraft fees in June 2022) of \$0 and \$28 million for the three months ended June 30, 2023 and 2022, respectively.

(3) Consists primarily of fees earned from structuring and underwriting loan syndications or related financing activity. This activity is accounted for under ASC 310.

(4) Commissions and fees include \$(2,940) million and \$(2,811) million not accounted for under ASC 606, Revenue from Contracts with Customers, for the three months ended June 30, 2023 and 2022, respectively, and \$(5,599) million and \$(5,240) million for the six months ended June 30, 2023 and 2022, respectively. Amounts reported in Commissions and fees accounted for under other guidance primarily include card-related loan fees, card reward programs and certain partner payments, corporate finance fees, insurance premiums and loan servicing fees.

The following tables present Administration and other fiduciary fees revenue:

	 Three Months Ended June 30, 2023								Six Months Ended June 30, 2023						
In millions of dollars	ICG	P	BWM		Legacy anchises		Total		ICG	Р	BWM		egacy nchises		Total
Custody fees	\$ 485	\$	22	\$	3	\$	510	\$	902	\$	42	\$	11	\$	955
Fiduciary fees	69		185		90		344		144		338		172		654
Guarantee fees	126		7		1		135		258		15		3		276
Total administration and other fiduciary fees <sup>(1)</sup>	\$ 680	\$	214	\$	94	\$	989	\$	1,304	\$	395	\$	186	\$	1,885

	_	Three	e Mon	ths E	nded June 30	22	Six Months Ended June 30, 2022							
In millions of dollars		ICG	PBV	VМ	Legacy Franchises	ļ,	Total		ICG	PBWM	F	Legacy Franchises	, ,	Total
Custody fees	\$	506	\$	22	\$ 2	\$	530	\$	952	\$ 4	5\$	5	\$	1,002
Fiduciary fees		68		196	79		343		133	40	1	159		693
Guarantee fees		134		14	2		150		266	2.	4	4		294
Total administration and other fiduciary fees <sup>(1)</sup>	\$	708	\$	232	\$ 83	\$	1,023	\$	1,351	\$ 47	) \$	168	\$	1,989

(1) Administration and other fiduciary fees include \$135 million and \$150 million for the three months ended June 30, 2023 and 2022, respectively, and \$276 million and \$294 million for the six months ended June 30, 2023 and 2022, respectively, that are not accounted for under ASC 606, *Revenue from Contracts with Customers.* These generally include guarantee fees.

### 6. PRINCIPAL TRANSACTIONS

Principal transactions revenue consists of realized and unrealized gains and losses from trading activities. Trading activities include revenues from fixed income, equities, credit and commodities products and foreign exchange transactions that are managed on a portfolio basis and characterized below based on the primary risk managed by each trading desk (as such, the trading desks can be periodically reorganized and thus the risk categories). Not included in the table below is the impact of net interest income related to trading activities, which is an integral part of trading activities' profitability (see Note 4 for information about net interest income related to trading activities). Principal transactions include CVA (credit valuation adjustments) and FVA (funding valuation adjustments) on over-the-counter derivatives, and gains (losses) on certain economic hedges on loans in ICG. These adjustments are discussed further in Note 22.

In certain transactions, Citi incurs fees and presents these fees paid to third parties in operating expenses.

The following table presents *Principal transactions* revenue:

	Three	Months Ende	Six Months Ended June 30,				
In millions of dollars	202	3	2022	2023	2022		
Interest rate risks <sup>(1)</sup>	\$	<b>594</b> \$	1,418	\$ 1,974	\$ 2,688		
Foreign exchange risks <sup>(2)</sup>		1,334	1,672	2,827	3,419		
Equity risks <sup>(3)</sup>		205	345	839	1,276		
Commodity and other risks <sup>(4)</sup>		469	612	967	1,063		
Credit products and risks <sup>(5)</sup>		(74)	478	(140)	669		
Total	\$	2,528 \$	4,525	\$ 6,467	\$ 9,115		

(1) Includes revenues from government securities and corporate debt, municipal securities, mortgage securities and other debt instruments. Also includes spot and forward trading of currencies and exchange-traded and over-the-counter (OTC) currency options, options on fixed income securities, interest rate swaps, currency swaps, swap options, caps and floors, financial futures, OTC options and forward contracts on fixed income securities.

(2) Includes revenues from foreign exchange spot, forward, option and swap contracts, as well as foreign currency translation (FX translation) gains and losses.

(3) Includes revenues from common, preferred and convertible preferred stock, convertible corporate debt, equity-linked notes and exchange-traded and OTC equity options and warrants.

(4) Primarily includes revenues from crude oil, refined oil products, natural gas and other commodities trades.

(5) Includes revenues from structured credit products.

## 7. INCENTIVE PLANS

For additional information on Citi's incentive plans, see Note 7 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

## 8. RETIREMENT BENEFITS

For additional information on Citi's retirement benefits, see Note 8 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

## Net (Benefit) Expense

The following table summarizes the components of net (benefit) expense recognized in the Consolidated Statement of Income for the Company's pension and postretirement plans for Significant Plans and All Other Plans. Benefits earned during the period are reported in *Compensation and benefits expenses* and all other components of the net period benefit cost are reported in *Other operating expenses* in the Consolidated Statement of Income:

	Three Months Ended June 30,													
			Pensio	n p	lans		Postretirement benefit plans							
		U.S. p	lans	Non-U.S.	. plans		U.S. pla	ins	Non-U.S. plans					
In millions of dollars		2023	2022		2023	2022		2023	2022		2023	2022		
Service cost	\$	_ :	\$ —	\$	30 \$	5 30	\$	— \$		\$	— \$			
Interest cost on benefit obligation		123	105		102	79		4	4		27	23		
Expected return on assets		(160)	(154)		(82)	(66)		(4)	(3)		(20)	(18)		
Amortization of unrecognized:														
Prior service (benefit)		_	—		(1)	(1)		(3)	(3)		(2)	(1)		
Net actuarial loss (gain)		41	44		15	14		(2)	(2)		(5)	1		
Curtailment (gain) <sup>(1)</sup>		_	_		_	(23)		_	_		_			
Settlement loss (gain) <sup>(1)</sup>					1	(10)						_		
Total net expense (benefit)	\$	4	\$ (5)	\$	65 \$	5 23	\$	(5) \$	(4)	\$	— \$	5		

(1) Curtailment and settlement relate to divestiture and wind-down activities.

	Six Months Ended June 30,											
		Pensio	on plan	15		Postretirement benefit plans						
	U.S	. plans	N	on-U.S.	plans	U.S.	Non-U.S. plans					
In millions of dollars	2023	2022	20	)23	2022	2023	2022	2023	2022			
Service cost	\$ -	- \$ —	\$	<b>58</b> \$	64	s —	· \$ —	\$ 1	\$ 1			
Interest cost on benefit obligation	250	191		200	152	9	7	52	46			
Expected return on assets	(321	(308)	)	(163)	(132)	(7	) (6)	(39	) (38)			
Amortization of unrecognized:												
Prior service cost (benefit)	1	. 1		(3)	(3)	(5	) (5)	) (4	) (4)			
Net actuarial loss (gain)	79	100		34	27	(5	) (3)	) (10	) 2			
Curtailment (gain) <sup>(1)</sup>	_			(8)	(23)		· _	-	_			
Settlement loss (gain) <sup>(1)</sup>				4	(10)							
Total net expense (benefit)	\$ 9	\$ (16)	) \$	122 \$	75	\$ (8	) \$ (7)	\$ _	\$ 7			

(1) Curtailment and settlement relate to divestiture and wind-down activities.

## Funded Status and Accumulated Other Comprehensive Income (AOCI)

The following table summarizes the funded status and amounts recognized on the Consolidated Balance Sheet for the Company's Significant Plans:

			Six Months End	led	June 30, 2023			
		Pensio	n plans		Postretirement	benefit plans		
In millions of dollars	U	.S. plans	Non-U.S. plans		U.S. plans	Non-U.S. plans		
Change in projected benefit obligation								
Projected benefit obligation at beginning of year	\$	9,741	\$ 6,375	\$	375 \$	\$ 1,013		
Plans measured annually		(19)	(1,774)		_	(193)		
Projected benefit obligation at beginning of year-Significant Plans	\$	9,722	\$ 4,601	\$	375 \$	§ 820		
First-quarter activity		160	241		(1)	70		
Projected benefit obligation at March 31, 2023—Significant Plans	\$	9,882	\$ 4,842	\$	374 \$	§ 890		
Service cost		_	12		—	—		
Interest cost on benefit obligation		122	84		4	23		
Actuarial (gain) loss		(157)	3		(20)	23		
Benefits paid, net of participants' contributions		(230)	(83)		(11)	(19)		
Foreign exchange impact and other		_	163			48		
Projected benefit obligation at period end—Significant Plans	\$	9,617	\$ 5,021	\$	347 \$	\$ 965		
Change in plan assets								
Plan assets at fair value at beginning of year	\$	10,145	\$ 6,086	\$	253 8	\$ 855		
Plans measured annually		_	(1,226)		_	(7)		
Plan assets at fair value at beginning of year-Significant Plans	\$	10,145	\$ 4,860	\$	253 8	§ 848		
First-quarter activity		143	225		5	73		
Plan assets at fair value at March 31, 2023—Significant Plans	\$	10,288	\$ 5,085	\$	258 5	§ 921		
Actual return on plan assets		86	(75)		2	(4)		
Company contributions, net of reimbursements		13	9		7	—		
Benefits paid, net of participants' contributions		(230)	(83)		(11)	(19)		
Foreign exchange impact and other			143			47		
Plan assets at fair value at period end—Significant Plans	\$	10,157	\$ 5,079	\$	256 8	§ 945		
Qualified plans <sup>(1)</sup>	\$	1,063	<b>\$</b> 58	\$	(91) \$	\$ (20)		
Nonqualified plans <sup>(2)</sup>		(523)						
Funded status of the plans at period end—Significant Plans	\$	540	<b>\$</b> 58	\$	(91) \$	\$ (20)		
Net amount recognized at period end								
Benefit asset	\$	1,063	<b>\$</b> 737	\$	— \$	s —		
Benefit liability		(523)	(679)		(91)	(20)		
Net amount recognized on the balance sheet—Significant Plans	\$	540	\$ <b>58</b>	\$	(91) \$	\$ (20)		
Amounts recognized in AOCI at period end <sup>(3)</sup>								
Prior service (expense) benefit	\$	—	\$ (2)	\$	78 5	\$ 36		
Net actuarial (loss) gain		(6,343)	(1,561)		127	(335)		
Net amount recognized in equity (pretax)—Significant Plans	\$	(6,343)	\$ (1,563)	\$	205 \$	\$ (299)		
Accumulated benefit obligation at period end—Significant Plans	\$	9,617	\$ 4,839	\$	347 8	\$ 965		

(1) The U.S. qualified pension plan is fully funded under specified Employee Retirement Income Security Act of 1974, as amended (ERISA), funding rules as of January 1, 2023 and no minimum required funding is expected for 2023.

(2) The nonqualified plans of the Company are unfunded.

(3) The framework for the Company's pension oversight process includes monitoring of potential settlement charges for all plans. Settlement accounting is triggered when either the sum of all settlements (including lump-sum payments) for the year is greater than service plus interest costs or if more than 10% of the plan's projected benefit obligation will be settled. Because some of Citi's significant plans are frozen and have no material service cost, settlement accounting may apply in the future.

The following table presents the change in AOCI related to the Company's pension, postretirement and post employment plans:

In millions of dollars		ee Months Ended June 30, 2023	Six Months Ended June 30, 2023	Three Months Ended June 30, 2022	Six Months Ended June 30, 2022
<b>Beginning of period balance, net of tax</b> <sup>(1)(2)</sup>	\$	(5,859) \$	(5,755)	\$ (5,681) \$	(5,852)
Actuarial assumptions changes and plan experience		154	(115)	1,499	3,024
Net asset (loss) due to difference between actual and expected returns	l	(245)	(62)	(1,675)	(3,137)
Net amortization		45	88	52	116
Curtailment/settlement loss (gain) <sup>(3)</sup>		1	(4)	(32)	(32)
Foreign exchange impact and other		(111)	(219)	83	133
Change in deferred taxes, net		20	72	(16)	(22)
Change, net of tax	\$	(136) \$	(240)	\$ (89) \$	82
End of period balance, net of tax <sup>(1)(2)</sup>	\$	(5,995) \$	(5,995)	\$ (5,770) \$	(5,770)

(1) See Note 18 for further discussion of net AOCI balance.

(2) Includes net-of-tax amounts for certain profit-sharing plans outside the U.S.

(3) Curtailment and settlement relate to divestiture activities.

#### **Plan Assumptions**

Certain assumptions used in determining pension and postretirement benefit obligations and net benefit expense for the Significant Plans are as follows:

	Thr	ee Months En	ded
During the period	Jun. 30, 2023	Mar. 31, 2023	Jun. 30, 2022
Discount rate			
U.S. plans			
Qualified pension	5.15%	5.50%	3.80%
Nonqualified pension	5.20	5.55	3.85
Postretirement	5.25	5.60	3.85
Non-U.S. plans			
Pension	2.05-10.65	2.20-10.60	1.10-10.00
Weighted average	7.64	7.55	5.55
Postretirement	10.70	10.60	10.10
Expected return on asse	ets		
U.S. plans			
Qualified pension	5.70	5.70	5.00
Postretirement	5.70/3.00	5.70/3.00	5.00/1.50
Non-U.S. plans			
Pension	4.10-9.90	4.50-9.90	1.90-8.00
Weighted average	6.26	6.40	4.15
Postretirement	8.70	8.70	8.00

At period ended	Jun. 30, 2023	Mar. 31, 2023	Jun. 30, 2022
Discount rate			
U.S. plans			
Qualified pension	5.40%	5.15%	4.80%
Nonqualified pension	5.45	5.20	4.80
Postretirement	5.50	5.25	4.75
Non-U.S. plans			
Pension	1.80-10.40	2.05-10.65	2.00-10.75
Weighted average	7.72	7.64	6.68
Postretirement	10.40	10.70	10.75
Expected return on asse	ets		
U.S. plans			
Qualified pension	5.70	5.70	5.00
Postretirement	5.70/3.00	5.70/3.00	5.00/1.50
Non-U.S. plans			
Pension	4.50-9.90	4.10-9.90	2.00-8.00
Weighted average	6.56	6.26	4.72
Postretirement	8.70	8.70	8.00

#### Sensitivities of Certain Key Assumptions

The following table summarizes the estimated effect on the Company's Significant Plans quarterly expense of a onepercentage-point change in the discount rate:

	Three	nree Months Ended June 30, 2023							
In millions of dollars		ercentage- t increase	One-percentage- point decrease						
Pension									
U.S. plans	\$	6	\$ (7)						
Non-U.S. plans		(1)	3						
Postretirement									
Non-U.S. plans		(1)	1						

## Contributions

For the U.S. pension plans, there were no required minimum cash contributions during the first six months of 2023.

The following table summarizes the Company's actual contributions for the six months ended June 30, 2023 and 2022, as well as expected Company contributions for the remainder of 2023 and the actual contributions made in 2022:

		Pension plans							Postretirement plans							
		U.S. plans <sup>(1)</sup>			Non-U.S. plans				U.S. plans				Non-U.S. plans			ans
In millions of dollars	20	023	2	2022	2	023	2	2022	20	)23	2	022	2	2023	2	022
Company contributions (reimbursements) <sup><math>(2)(3)</math></sup> for the six months ended June 30	\$	28	\$	28	\$	60	\$	389	\$	20	\$	(1)	\$	5	\$	5
Company contributions made during the remainder of the $year^{(3)}$				27		_		105		_		15				4
Company contributions expected to be made during the remainder of the year		32				52				2				5		

(1) The U.S. plans include benefits paid directly by the Company for the nonqualified pension plans.

(2) Company contributions are composed of cash contributions made to the plans and benefits paid directly by the Company.

(3) 2022 benefit payments have increased due to the wind-down of Citi's consumer banking business in Korea, as it is expected that employees who elected the VERP will be withdrawing their pension plan assets.

#### **Defined Contribution Plans**

The following table summarizes the Company's contributions for the defined contribution plans:

## **Post Employment Plans**

The following table summarizes the net expense recognized in the Consolidated Statement of Income for the Company's U.S. post employment plans:

		hree hree		E	Six M nded		onths une 30,		
In millions of dollars	2023			2022	2	2023	2022		
U.S. plans	\$	137	\$	119	\$	275	\$	238	
Non-U.S. plans		114		99		228		205	

		hree ded		Six Months Ended June 30,					
In millions of dollars	20	23	2	2022	20	023	2	022	
Service-related expense									
Amortization of unrecognized:									
Net actuarial loss	\$	1	\$	1	\$	1	\$	1	
Total service-related expense	\$	1	\$	1	\$	1	\$	1	
Non-service-related expense				1		5		6	
Total net expense	\$	1	\$	2	\$	6	\$	7	

## 9. EARNINGS PER SHARE

The following table reconciles the income and share data used in the basic and diluted earnings per share (EPS) computations:

	Three Months Ended June 30,					Ended ),		
In millions of dollars, except per share amounts		2023		2022		2023		2022
Earnings per common share								
Income from continuing operations before attribution of noncontrolling interests	\$	2,952	\$	4,789	\$	7,604	\$	9,114
Less: Noncontrolling interests from continuing operations		36		21		81		38
Net income from continuing operations (for EPS purposes)	\$	2,916	\$	4,768	\$	7,523	\$	9,076
Income (loss) from discontinued operations, net of taxes		(1)		(221)		(2)		(223)
Citigroup's net income	\$	2,915	\$	4,547	\$	7,521	\$	8,853
Less: Preferred dividends		288		238		565		517
Net income available to common shareholders	\$	2,627	\$	4,309	\$	6,956	\$	8,336
Less: Dividends and undistributed earnings allocated to employee restricted and deferred shares with rights to dividends, applicable to basic EPS		33		35		68		60
Net income allocated to common shareholders for basic EPS	\$	2,594	\$	4,274	\$	6,888	\$	8,276
Weighted-average common shares outstanding applicable to basic EPS (in millions)		1,942.8		1,941.5		1,943.2		1,956.6
Basic earnings per share <sup>(1)</sup>								
Income from continuing operations	\$	1.34	\$	2.32	\$	3.55	\$	4.34
Discontinued operations		_		(0.11)				(0.11)
Net income per share—basic	\$	1.34	\$	2.20	\$	3.54	\$	4.23
Diluted earnings per share								
Net income allocated to common shareholders for basic EPS	\$	2,594	\$	4,274	\$	6,888	\$	8,276
Add back: Dividends allocated to employee restricted and deferred shares with rights to dividends that are forfeitable		15		11		26		19
Net income allocated to common shareholders for diluted EPS	\$	2,609	\$	4,285	\$	6,914	\$	8,295
Weighted-average common shares outstanding applicable to basic EPS (in millions)		1,942.8		1,941.5		1,943.2		1,956.6
Effect of dilutive securities								
Options <sup>(2)</sup>		—		_		—		_
Other employee plans		25.8		16.6		23.1		16.6
Adjusted weighted-average common shares outstanding applicable to diluted EPS ( <i>in millions</i> ) <sup>(3)</sup>		1,968.6		1,958.1		1,966.3		1,973.2
Diluted earnings per share <sup>(1)</sup>								
Income from continuing operations	\$	1.33	\$	2.30	\$	3.52	\$	4.32
Discontinued operations				(0.11)				(0.11)
Net income per share—diluted <sup>(4)</sup>	\$	1.33	\$	2.19	\$	3.52	\$	4.20

(1) Due to rounding, earnings per share on continuing operations and discontinued operations may not sum to earnings per share on net income.

(2) During the second quarters of 2023 and 2022, no significant options to purchase shares of common stock were outstanding.

(3) Due to rounding, weighted-average common shares outstanding applicable to basic EPS and the effect of dilutive securities may not sum to weighted-average common shares outstanding applicable to diluted EPS.

(4) Due to rounding, income from continuing operations and discontinued operations may not sum to net income per share—diluted.

## **10. SECURITIES BORROWED, LOANED AND SUBJECT TO REPURCHASE AGREEMENTS**

For additional information on the Company's resale and repurchase agreements and securities borrowing and lending agreements, see Note 11 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

Securities borrowed and purchased under agreements to resell, at their respective carrying values, consisted of the following:

In millions of dollars	June 30, 2023	D	ecember 31, 2022
Securities purchased under agreements to resell	\$ 266,952	\$	291,272
Deposits paid for securities borrowed	70,177		74,165
Total, net <sup>(1)</sup>	\$ 337,129	\$	365,437
Allowance for credit losses on securities purchased and borrowed <sup>(2)</sup>	(26)	1	(36)
Total, net of allowance	\$ 337,103	\$	365,401

Securities loaned and sold under agreements to repurchase, at their respective carrying values, consisted of the following:

In millions of dollars	June 30, 2023	ecember 31, 2022	
Securities sold under agreements to repurchase	\$ 247,294	\$	183,827
Deposits received for securities loaned	12,741		18,617
Total, net <sup>(1)</sup>	\$ 260,035	\$	202,444

 The above tables do not include securities-for-securities lending transactions of \$5.9 billion and \$4.4 billion at June 30, 2023 and December 31, 2022, respectively, where the Company acts as lender and receives securities that can be sold or pledged as collateral. In these transactions, the Company recognizes the securities received at fair value within *Other assets* and the obligation to return those securities as a liability within *Brokerage payables*.

(2) See Note 14 for further information.

It is the Company's policy to take possession of the underlying collateral, monitor its market value relative to the amounts due under the agreements and, when necessary, require prompt transfer of additional collateral in order to maintain contractual margin protection. For resale and repurchase agreements, when necessary, the Company posts additional collateral in order to maintain contractual margin protection.

A substantial portion of the resale and repurchase agreements is recorded at fair value as the Company elected the fair value option, as described in Notes 22 and 23. The remaining portion is carried at the amount of cash initially advanced or received, plus accrued interest, as specified in the respective agreements.

A substantial portion of securities borrowing and lending agreements is recorded at the amount of cash advanced or received. The remaining portion is recorded at fair value as the Company elected the fair value option for certain securities borrowed and loaned portfolios, as described in Note 23. With respect to securities loaned, the Company receives cash collateral in an amount generally in excess of the market value of the securities loaned. The Company monitors the market value of securities borrowed and securities loaned on a daily basis and posts or obtains additional collateral in order to maintain contractual margin protection.

The following tables present the gross and net resale and repurchase agreements and securities borrowing and lending agreements and the related offsetting amounts permitted under ASC 210-20-45. The tables also include amounts related to financial instruments that are not permitted to be offset under ASC 210-20-45, but would be eligible for offsetting to the extent that an event of default has occurred and a legal opinion supporting enforceability of the offsetting rights has been obtained. Remaining exposures continue to be secured by financial collateral, but the Company may not have sought or been able to obtain a legal opinion evidencing enforceability of the offsetting right.

					As of June 30, 202	3			
In millions of dollars	 oss amounts recognized assets	(	Fross amounts offset on the Consolidated alance Sheet <sup>(1)</sup>	a	Net amounts of ssets included on the Consolidated Balance Sheet	Amounts not offset on the Consolidated Balance Sheet but eligible for offsetting upon counterparty default <sup>(2)</sup>			Net ounts <sup>(3)</sup>
Securities purchased under agreements to resell	\$ 485,998	\$	219,046	\$	266,952	\$ 24	42,215	\$	24,737
Deposits paid for securities borrowed	86,876		16,699		70,177	1	12,418		57,759
Total	\$ 572,874	\$	235,745	\$	337,129	\$ 25	54,633	\$	82,496

In millions of dollars	of	ss amounts recognized iabilities	0 C	oss amounts ffset on the onsolidated lance Sheet <sup>(1)</sup>	 Net amounts of bilities included on the Consolidated Balance Sheet	SI	Amounts not offset on the onsolidated Balance heet but eligible for offsetting upon unterparty default <sup>(2)</sup>	ar	Net nounts <sup>(3)</sup>
Securities sold under agreements to repurchase	\$	466,340	\$	219,046	\$ 247,294	\$	151,953	\$	95,341
Deposits received for securities loaned		29,440		16,699	12,741		1,893		10,848
Total	\$	495,780	\$	235,745	\$ 260,035	\$	153,846	\$	106,189

				А	s of December 31, 2	)22			
In millions of dollars	 oss amounts recognized assets	Ċ	Fross amounts offset on the Consolidated alance Sheet <sup>(1)</sup>		Net amounts of assets included on the Consolidated Balance Sheet	Co Sl	Amounts not offset on the onsolidated Balance heet but eligible for offsetting upon unterparty default <sup>(2)</sup>	ar	Net nounts <sup>(3)</sup>
Securities purchased under agreements to resell	\$ 403,663	\$	112,391	\$	291,272	\$	204,077	\$	87,195
Deposits paid for securities borrowed	88,817		14,652		74,165		13,844		60,321
Total	\$ 492,480	\$	127,043	\$	365,437	\$	217,921	\$	147,516

In millions of dollars	of	ss amounts recognized iabilities	Gross amo offset on Consolida Balance Sh	the ited	liał	Net amounts of bilities included on he Consolidated Balance Sheet	Co Sh	Amounts not offset on the nsolidated Balance eet but eligible for offsetting upon interparty default <sup>(2)</sup>	an	Net nounts <sup>(3)</sup>
Securities sold under agreements to repurchase	\$	296,218	\$ 11	2,391	\$	183,827	\$	71,635	\$	112,192
Deposits received for securities loaned		33,269	1	4,652		18,617		2,542		16,075
Total	\$	329,487	\$ 12	7,043	\$	202,444	\$	74,177	\$	128,267

(1) Includes financial instruments subject to enforceable master netting agreements that are permitted to be offset under ASC 210-20-45.

(2) Includes financial instruments subject to enforceable master netting agreements that are not permitted to be offset under ASC 210-20-45, but would be eligible for offsetting to the extent that an event of default has occurred and a legal opinion supporting enforceability of the offsetting right has been obtained.

Remaining exposures continue to be secured by financial collateral, but the Company may not have sought or been able to obtain a legal opinion evidencing (3) enforceability of the offsetting right.

The following tables present the gross amounts of liabilities associated with repurchase agreements and securities lending agreements by remaining contractual maturity:

	 As of June 30, 2023										
In millions of dollars	Open and overnight	Up	to 30 days	31–90 days	Greater than 90 days		Total				
Securities sold under agreements to repurchase	\$ 277,705	\$	107,162	\$ 25,550	\$ 55,923	\$	466,340				
Deposits received for securities loaned	21,543		304	645	6,948		29,440				
Total	\$ 299,248	\$	107,466	\$ 26,195	\$ 62,871	\$	495,780				

	As of December 31, 2022										
In millions of dollars		Open and overnight	Up	to 30 days		31–90 days	0	Greater than 90 days		Total	
Securities sold under agreements to repurchase	\$	138,710	\$	86,819	\$	25,119	\$	45,570	\$	296,218	
Deposits received for securities loaned		25,388		267		2,121		5,493		33,269	
Total	\$	164,098	\$	87,086	\$	27,240	\$	51,063	\$	329,487	

The following tables present the gross amounts of liabilities associated with repurchase agreements and securities lending agreements by class of underlying collateral:

	As of June 30, 2023										
In millions of dollars		Repurchase agreements	Securities lending agreements	Total							
U.S. Treasury and federal agency securities	\$	185,547	\$ 544	\$ 186,091							
State and municipal securities		1,465		1,465							
Foreign government securities		176,437	593	177,030							
Corporate bonds		16,729	246	16,975							
Equity securities		21,548	27,561	49,109							
Mortgage-backed securities		54,842	314	55,156							
Asset-backed securities		2,906	_	2,906							
Other		6,866	182	7,048							
Total	\$	466,340	\$ 29,440	\$ 495,780							

	 As of December 31, 2022								
In millions of dollars	Repurchase agreements	Securities lending agreements	Total						
U.S. Treasury and federal agency securities	\$ 99,979	\$ 106	\$ 100,085						
State and municipal securities	1,911	—	1,911						
Foreign government securities	123,826	13	123,839						
Corporate bonds	14,308	45	14,353						
Equity securities	9,749	33,096	42,845						
Mortgage-backed securities	36,225	—	36,225						
Asset-backed securities	1,755	—	1,755						
Other	8,465	9	8,474						
Total	\$ 296,218	\$ 33,269	\$ 329,487						

# 11. BROKERAGE RECEIVABLES AND BROKERAGE PAYABLES

The Company has receivables and payables for financial instruments sold to and purchased from brokers, dealers and customers, which arise in the ordinary course of business.

For additional information on these receivables and payables, see Note 12 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

*Brokerage receivables* and *Brokerage payables* consisted of the following:

In millions of dollars	June 30, 2023	D	ecember 31, 2022
Receivables from customers	\$ 16,305	\$	15,462
Receivables from brokers, dealers and clearing organizations	44,545		38,730
Total brokerage receivables <sup>(1)</sup>	\$ 60,850	\$	54,192
Payables to customers	\$ 50,450	\$	55,747
Payables to brokers, dealers and clearing organizations	18,983		13,471
Total brokerage payables <sup>(1)</sup>	\$ 69,433	\$	69,218

 Includes brokerage receivables and payables recorded by Citi brokerdealer entities that are accounted for in accordance with the AICPA Accounting Guide for Brokers and Dealers in Securities as codified in ASC 940-320.

## **12. INVESTMENTS**

For additional information regarding Citi's investment portfolios, including evaluating investments for impairment, see Note 13 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

The following table presents Citi's investments by category:

In millions of dollars	June 30, 2023	De	cember 31, 2022
Debt securities available-for-sale (AFS)	\$ 237,334	\$	249,679
Debt securities held-to-maturity (HTM) <sup>(1)</sup>	262,066		268,863
Marketable equity securities carried at fair value <sup>(2)</sup>	296		429
Non-marketable equity securities carried at fair value <sup>(2)(5)</sup>	433		466
Non-marketable equity securities measured using the measurement alternative <sup>(3)</sup>	1,618		1,676
Non-marketable equity securities carried at cost <sup>(4)</sup>	5,398		5,469
Total investments <sup>(6)</sup>	\$ 507,145	\$	526,582

(1) Carried at adjusted amortized cost basis, net of any ACL.

(2) Unrealized gains and losses are recognized in earnings.

(3) Impairment losses and adjustments to the carrying value as a result of observable price changes are recognized in earnings. See "Non-Marketable Equity Securities Not Carried at Fair Value" below.

(4) Represents shares issued by the Federal Reserve Bank, Federal Home Loan Banks and certain exchanges of which Citigroup is a member.

(5) Includes \$24 million and \$27 million of investments in funds for which the fair values are estimated using the net asset value of the Company's ownership interest in the funds at June 30, 2023 and December 31, 2022, respectively.

(6) Not included in the balances above is approximately \$2 billion of accrued interest receivable at June 30, 2023 and December 31, 2022, which is included in *Other assets* on the Consolidated Balance Sheet. The Company does not recognize an allowance for credit losses on accrued interest receivable for AFS and HTM debt securities, consistent with its non-accrual policy, which results in timely write-off of accrued interest. The Company did not reverse through interest income any accrued interest receivables for the quarters ended June 30, 2023 and 2022.

The following table presents interest and dividend income on investments:

	T	hree Months Ende	d June 30,	Six Months Ended June 30,					
In millions of dollars		2023	2022	2023	2022				
Taxable interest	\$	4,284 \$	2,274	\$ 8,284 \$	4,287				
Interest exempt from U.S. federal income tax		84	38	169	43				
Dividend income		83	58	142	90				
Total interest and dividend income on investments	\$	4,451 \$	2,370	\$ 8,595 \$	4,420				

The following table presents realized gains and losses on the sales of investments, which exclude impairment losses:

	Th	ree Months Ended	l June 30,	Six Mon	ths Ended .	June 30,
In millions of dollars		2023	2022	2023		2022
Gross realized investment gains	\$	<b>91</b> \$	27	\$	179 \$	180
Gross realized investment losses		(42)	(85)		(58)	(158)
Net realized gains (losses) on sales of investments	\$	<b>49</b> \$	(58)	\$	121 \$	22

## **Debt Securities Available-for-Sale**

The amortized cost and fair value of AFS debt securities were as follows:

			J	une	30, 2023			December 31, 2022									
In millions of dollars	Aı	mortized cost	Gross realized gains	un	Gross realized losses	 llowance or credit losses		Fair value	A	Amortized cost	u	Gross nrealized gains	u	Gross nrealized losses	fc	lowance or credit losses	Fair value
Debt securities AFS																	
Mortgage-backed securities <sup>(1)</sup>																	
U.S. government- sponsored agency guaranteed <sup>(2)(3)</sup>	\$	15,578	\$ 82	\$	697	\$ _	\$	14,963	\$	12,009	\$	8	\$	755	\$	_	\$ 11,262
Residential		340	—		3	—		337		488		—		3		—	485
Commercial		2	_		_	—		2		2		—		—		_	2
Total mortgage-backed securities	\$	15,920	\$ 82	\$	700	\$ _	\$	15,302	\$	12,499	\$	8	\$	758	\$	_	\$ 11,749
U.S. Treasury and federal agency securities																	
U.S. Treasury	\$	84,250	\$ 23	\$	2,030	\$ —	\$	82,243	\$	94,732	\$	50	\$	2,492	\$	—	\$ 92,290
Agency obligations			_		—	—				_		—		_		_	—
Total U.S. Treasury and federal agency securities	\$	84,250	\$ 23	\$	2,030	\$ _	\$	82,243	\$	94,732	\$	50	\$	2,492	\$	_	\$ 92,290
State and municipal	\$	2,305	\$ 24	\$	127	\$ _	\$	2,202	\$	2,363	\$	19	\$	159	\$	_	\$ 2,223
Foreign government		126,967	356		2,053	—		125,270		135,648		569		2,940		—	133,277
Corporate		5,596	13		277	5		5,327		5,146		19		246		3	4,916
Asset-backed securities <sup>(1)</sup>		842	7		3	_		846		1,022		12		4		_	1,030
Other debt securities		6,145	2		3			6,144		4,198		1		5		_	4,194
Total debt securities AFS	\$	242,025	\$ 507	\$	5,193	\$ 5	\$	237,334	\$	255,608	\$	678	\$	6,604	\$	3	\$249,679

(1) The Company invests in mortgage- and asset-backed securities, which are typically issued by VIEs through securitization transactions. The Company's maximum exposure to loss from these VIEs is equal to the carrying amount of the securities, which is reflected in the table above. See Note 20 for mortgage- and asset-backed securitizations in which the Company has other involvement.

(2) In January 2023, Citi adopted ASU 2022-01. Upon adoption, Citi transferred \$3.3 billion of mortgage-backed securities from HTM classification to AFS classification as allowed under the ASU. At the time of transfer, the securities were in an unrealized gain position of \$0.1 billion, which was recorded in AOCI upon transfer. See Note 1 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

(3) Amortized cost includes unallocated portfolio layer cumulative basis adjustments of \$(0.2) billion as of June 30, 2023. Gross unrealized gains and gross unrealized losses on mortgage-backed securities excluding the effect of unallocated portfolio layer cumulative basis adjustments were \$32 million and \$848 million, respectively, as of June 30, 2023.

The following table presents the fair value of AFS debt securities that have been in an unrealized loss position:

	I	less than	12 n	nonths	12	2 month	s or longe	er	Total				
In millions of dollars		Gross Fair unrealized value losses				Fair value	Gross unrealiz losses	ed	Fair value	Gross unrealized losses			
June 30, 2023													
Debt securities AFS													
Mortgage-backed securities													
U.S. government-sponsored agency guaranteed <sup>(1)</sup>	\$	2,276	\$	73	\$	9,385	\$ 6	24	\$ 11,661	\$ 697			
Residential		331		3		—		_	331	3			
Commercial						2			2				
Total mortgage-backed securities	\$	2,607	\$	76	\$	9,387	\$ 6	24	\$ 11,994	\$ 700			
U.S. Treasury and federal agency securities													
U.S. Treasury	\$	20,820	\$	743	\$	48,429	\$ 1,2	87	\$ 69,249	\$ 2,030			
Total U.S. Treasury and federal agency securities	\$	20,820	\$	743	\$	48,429	\$ 1,2	87	\$ 69,249	\$ 2,030			
State and municipal	\$	414	\$	14	\$	847	\$ 1	13	\$ 1,261	<b>\$</b> 127			
Foreign government		63,765		1,446		19,543	6	07	83,308	2,053			
Corporate		2,893		220		1,583		57	4,476	277			
Asset-backed securities		640		3		_		_	640	3			
Other debt securities		1,491		3		_			1,491	3			
Total debt securities AFS	\$	92,630	\$	2,505	\$	79,789	\$ 2,6	88	\$ 172,419	\$ 5,193			
December 31, 2022													
Debt securities AFS													
Mortgage-backed securities													
U.S. government-sponsored agency guaranteed	\$	7,908	\$	412	\$	3,290	\$ 3	43	\$ 11,198	\$ 755			
Residential		158		3		1		_	159	3			
Commercial		1		_		1			2	_			
Total mortgage-backed securities	\$	8,067	\$	415	\$	3,292	\$ 3	43	\$ 11,359	\$ 758			
U.S. Treasury and federal agency securities													
U.S. Treasury	\$	40,701	\$	1,001	\$	34,692	\$ 1,4	91	\$ 75,393	\$ 2,492			
Agency obligations		_		_		_			_	_			
Total U.S. Treasury and federal agency securities	\$	40,701	\$	1,001	\$	34,692	\$ 1,4	91	\$ 75,393	\$ 2,492			
State and municipal	\$	896	\$	31	\$	707	\$ 1	28	\$ 1,603	\$ 159			
Foreign government		82,900		2,332		14,220	6	08	97,120	2,940			
Corporate		3,082		209		784		37	3,866	246			
Asset-backed securities		708		4		_			708	4			
Other debt securities		2,213		5				_	2,213	5			
Total debt securities AFS	\$	138,567	\$	3,997	\$	53,695	\$ 2,6	07	\$ 192,262	\$ 6,604			

(1) Gross unrealized losses on mortgage-backed securities excluding the effect of unallocated portfolio layer cumulative basis adjustments were \$82 million and \$767 million for less than 12 months and 12 months or longer, respectively. The following table presents the amortized cost and fair value of AFS debt securities by contractual maturity dates:

		June 3	0, 20	023		December	r 31	, 2022
In millions of dollars	Α	mortized cost		Fair value	A	mortized cost		Fair value
Mortgage-backed securities <sup>(1)</sup>								
Due within 1 year	\$	4	\$	4	\$	42	\$	44
After 1 but within 5 years		403		393		523		513
After 5 but within 10 years		500		473		468		440
After 10 years		15,214		14,432		11,466		10,752
Total <sup>(2)</sup>	\$	16,121	\$	15,302	\$	12,499	\$	11,749
U.S. Treasury and federal agency securities								
Due within 1 year	\$	25,343	\$	25,156	\$	25,935	\$	25,829
After 1 but within 5 years		58,339		56,565		68,455		66,166
After 5 but within 10 years		568		522		342		295
After 10 years		_				—		—
Total	\$	84,250	\$	82,243	\$	94,732	\$	92,290
State and municipal								
Due within 1 year	\$	14	\$	12	\$	19	\$	18
After 1 but within 5 years		93		92		94		92
After 5 but within 10 years		279		275		305		302
After 10 years		1,919		1,823		1,945		1,811
Total	\$	2,305	\$	2,202	\$	2,363	\$	2,223
Foreign government								
Due within 1 year	\$	55,587	\$	55,384	\$	64,795	\$	64,479
After 1 but within 5 years		66,904		65,612		67,935		66,150
After 5 but within 10 years		3,897		3,725		2,491		2,250
After 10 years		579		549		427		398
Total	\$	126,967	\$	125,270	\$	135,648	\$	133,277
All other <sup>(3)</sup>								
Due within 1 year	\$	5,763	\$	5,759	\$	4,452	\$	4,441
After 1 but within 5 years		6,174		5,962		5,162		4,988
After 5 but within 10 years		588		583		695		693
After 10 years		58		13		57		18
Total	\$	12,583	\$	12,317	\$	10,366	\$	10,140
Total debt securities AFS <sup>(2)</sup>	\$	242,226	\$	237,334	\$	255,608	\$	249,679

 Includes mortgage-backed securities of U.S. government-sponsored agencies. The Company invests in mortgage- and asset-backed securities, which are typically issued by VIEs through securitization transactions. See Note 20 for more information about mortgage- and asset-backed securitizations in which the Company has other involvement.

(2) Amortized cost excludes unallocated portfolio layer cumulative basis adjustments of \$(0.2) billion as of June 30, 2023.

(3) Includes corporate, asset-backed and other debt securities.

## **Debt Securities Held-to-Maturity**

The carrying value and fair value of debt securities HTM were as follows:

In millions of dollars	Amortized cost, net <sup>(1)</sup>	Gross unrealized gains		Gross unrealized losses	Fair value
June 30, 2023					
Debt securities HTM					
Mortgage-backed securities <sup>(2)</sup>					
U.S. government-sponsored agency guaranteed <sup>(3)</sup>	\$ 83,541	\$	6\$	9,708	\$ 73,839
Non-U.S. residential	362			—	362
Commercial	1,145		_	149	996
Total mortgage-backed securities	\$ 85,048	\$	6\$	9,857	\$ 75,197
U.S. Treasury securities	\$ 134,944	\$	- \$	13,091	\$ 121,853
State and municipal	9,181		35	628	8,588
Foreign government	2,360			93	2,267
Asset-backed securities <sup>(2)</sup>	30,533			417	30,116
Total debt securities HTM, net	\$ 262,066	\$	41 \$	24,086	\$ 238,021
December 31, 2022					
Debt securities HTM					
Mortgage-backed securities <sup>(2)</sup>					
U.S. government-sponsored agency guaranteed	\$ 90,063	\$	58 \$	10,033	\$ 80,088
Non-U.S. residential	445			—	445
Commercial	1,114		5	1	1,118
Total mortgage-backed securities	\$ 91,622	\$	63 \$	10,034	\$ 81,651
U.S. Treasury securities	\$ 134,961	\$	— \$	13,722	\$ 121,239
State and municipal	9,237		34	764	8,507
Foreign government	2,075		_	93	1,982
Asset-backed securities <sup>(2)</sup>	30,968		4	703	30,269
Total debt securities HTM, net	\$ 268,863	\$ 1	01 \$	25,316	\$ 243,648

(1) Amortized cost is reported net of ACL of \$99 million and \$120 million at June 30, 2023 and December 31, 2022, respectively.

(2) The Company invests in mortgage- and asset-backed securities. These securitizations are generally considered VIEs. The Company's maximum exposure to loss from these VIEs is equal to the carrying amount of the securities, which is reflected in the table above. See Note 20 for mortgage- and asset-backed securitizations in which the Company has other involvement.

(3) In January 2023, Citi adopted ASU 2022-01. Upon adoption, Citi transferred \$3.3 billion of mortgage-backed securities from HTM classification to AFS classification as allowed under the ASU. At the time of transfer, the securities were in an unrealized gain position of \$0.1 billion, which was recorded in AOCI upon transfer. See Note 1 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

The following table presents the carrying value and fair value of HTM debt securities by contractual maturity dates:

		June 3	0, 2	2023	Decembe	er 31	r 31, 2022	
In millions of dollars	An	nortized cost <sup>(1)</sup>		Fair value	Amortized cost <sup>(1)</sup>		Fair value	
Mortgage-backed securities								
Due within 1 year	\$	15	\$	15	\$ 27	\$	27	
After 1 but within 5 years		690		655	520		505	
After 5 but within 10 years		1,254		1,141	1,496		1,374	
After 10 years		83,089		73,386	89,579		79,745	
Total	\$	85,048	\$	75,197	\$ 91,622	\$	81,651	
U.S. Treasury securities								
Due within 1 year	\$	3,149	\$	3,077	\$ 3,148	\$	3,017	
After 1 but within 5 years		120,838		109,351	86,617		79,104	
After 5 but within 10 years		10,957		9,425	45,196		39,118	
After 10 years		_			_			
Total	\$	134,944	\$	121,853	\$ 134,961	\$	121,239	
State and municipal								
Due within 1 year	\$	36	\$	35	\$ 22	\$	21	
After 1 but within 5 years		104		102	102		100	
After 5 but within 10 years		1,222		1,183	1,002		967	
After 10 years		7,819		7,268	8,111		7,419	
Total	\$	9,181	\$	8,588	\$ 9,237	\$	8,507	
Foreign government								
Due within 1 year	\$	163	\$	161	\$ 143	\$	139	
After 1 but within 5 years		2,197		2,106	1,932		1,843	
After 5 but within 10 years				_	_			
After 10 years					_			
Total	\$	2,360	\$	2,267	\$ 2,075	\$	1,982	
All other <sup>(2)</sup>								
Due within 1 year	\$	_	\$	_	\$	\$		
After 1 but within 5 years				_	_			
After 5 but within 10 years		12,232		12,141	11,751		11,583	
After 10 years		18,301		17,975	19,217		18,686	
Total	\$	30,533	\$	30,116	\$ 30,968	\$	30,269	
Total debt securities HTM	\$	262,066	\$	238,021	\$ 268,863	\$	243,648	

(1) Amortized cost is reported net of ACL of \$99 million and \$120 million at June 30, 2023 and December 31, 2022, respectively.

(2) Includes corporate and asset-backed securities.

# HTM Debt Securities Delinquency and Non-Accrual Details

Citi did not have any HTM debt securities that were delinquent or on non-accrual status at June 30, 2023 or December 31, 2022.

There were no purchased credit-deteriorated HTM debt securities held by the Company as of June 30, 2023 or December 31, 2022.

# Evaluating Investments for Impairment—AFS Debt Securities

## **Overview**

The Company conducts periodic reviews of all AFS debt securities with unrealized losses to evaluate whether the impairment resulted from expected credit losses or from other factors and to evaluate the Company's intent to sell such securities.

For more information on evaluating investments for impairment, see Note 13 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

## **Recognition and Measurement of Impairment**

The following table presents total impairment on AFS investments recognized in earnings:

	Th	ree Month June 3		Siz	x Months June 3	
In millions of dollars	2	2023	2022	2	023	2022
Impairment losses related to debt securities that the Company does not intend to sell nor will likely be required to sell:						
Total impairment losses recognized during the period	\$	— \$	_	\$	— \$	—
Less: portion of impairment loss recognized in AOCI (before taxes)		_	_		_	
Net impairment losses recognized in earnings for debt securities that the Company does not intend to sell nor will likely be required to sell	\$	— \$		\$	— \$	
Impairment losses recognized in earnings for debt securities that the Company intends to sell, would more-likely-than-not be required to sell or will be subject to an issuer call deemed probable of exercise		43	90		94	180
Total impairment losses recognized in earnings	\$	43 \$	90	\$	94 \$	180

## Allowance for Credit Losses on AFS Debt Securities

The allowance for credit losses on AFS securities held that the Company does not intend to sell nor will likely be required to sell was \$5 million and \$3 million as of June 30, 2023 and December 31, 2022, respectively.

## Non-Marketable Equity Securities Not Carried at Fair Value

Non-marketable equity securities are required to be measured at fair value with changes in fair value recognized in earnings unless (i) the measurement alternative is elected or (ii) the investment represents Federal Reserve Bank and Federal Home Loan Bank stock or certain exchange seats that continue to be carried at cost.

The election to measure a non-marketable equity security using the measurement alternative is made on an instrumentby-instrument basis. Under the measurement alternative, an equity security is carried at cost plus or minus changes resulting from observable prices in orderly transactions for the identical or a similar investment of the same issuer. The carrying value of the equity security is adjusted to fair value on the date of an observed transaction. Fair value may differ from the observed transaction price due to a number of factors, including marketability adjustments and differences in rights and obligations when the observed transaction is not for the identical investment held by Citi.

Equity securities under the measurement alternative are also assessed for impairment. On a quarterly basis, management qualitatively assesses whether each equity security under the measurement alternative is impaired. For details on impairment indicators that are considered, see Note 13 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

When the qualitative assessment indicates that the equity security is impaired, its fair value is determined. If the fair value of the investment is less than its carrying value, the investment is written down to fair value through earnings.

Below is the carrying value of non-marketable equity securities measured using the measurement alternative at June 30, 2023 and December 31, 2022:

In millions of dollars	ine 30, 2023	De	cember 31, 2022
Measurement alternative:			
Carrying value	\$ 1,618	\$	1,676

Below are amounts recognized in earnings and life-to-date amounts for non-marketable equity securities measured using the measurement alternative:

	-	hree l nded a					Months June 30,				
In millions of dollars	20	023	2	022	20	023	2	022			
Measurement alternative <sup>(1)</sup> :											
Impairment losses	\$	28	\$	6	\$	63	\$	6			
Downward changes for observable prices		_		_		20		_			
Upward changes for observable prices		3		48		33		134			

(1) See Note 22 for additional information on these nonrecurring fair value measurements.

		ate amounts ties still held
In millions of dollars	June	30, 2023
Measurement alternative:		
Impairment losses	\$	282
Downward changes for observable prices		26
Upward changes for observable prices		900

A similar impairment analysis is performed for nonmarketable equity securities carried at cost. For the three months ended June 30, 2023 and 2022, there was no impairment loss recognized in earnings for non-marketable equity securities carried at cost.

#### 13. LOANS

Citigroup loans are reported in two categories: corporate and consumer. These categories are classified primarily according to the operating segment and component that manage the loans in addition to the nature of the obligor, with corporate loans generally made for corporate institutional and public sector clients around the world and consumer loans to retail and small business customers. For additional information regarding Citi's corporate and consumer loans, including related accounting policies, see Note 1 and Notes 1 and 14 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

#### **Corporate Loans**

Corporate loans represent loans and leases managed by *ICG* and the Mexico SBMM component of *Legacy Franchises*. The following table presents information by corporate loan type:

In millions of dollars	June 30, 2023	D	ecember 31, 2022
In North America offices <sup>(1)</sup>			
Commercial and industrial	\$ 59,790	\$	56,176
Financial institutions	36,268		43,399
Mortgage and real estate <sup>(2)</sup>	17,495		17,829
Installment and other	22,153		23,767
Lease financing	224		308
Total	\$ 135,930	\$	141,479
In offices outside North America <sup>(1)</sup>			
Commercial and industrial	\$ 95,836	\$	93,967
Financial institutions	21,701		21,931
Mortgage and real estate <sup>(2)</sup>	6,076		4,179
Installment and other	23,395		23,347
Lease financing	49		46
Governments and official institutions	3,034		4,205
Total	\$ 150,091	\$	147,675
Corporate loans, net of unearned income <sup>(3)(4)(5)</sup>	\$ 286,021	\$	289,154

(1) North America includes the U.S., Canada and Puerto Rico. Mexico is included in offices outside North America. The classification between offices in North America and outside North America is based on the domicile of the booking unit. The difference between the domicile of the booking unit and the domicile of the managing unit is not material.

(2) Loans secured primarily by real estate.

(3) Corporate loans are net of unearned income of (\$795) million and (\$797) million at June 30, 2023 and December 31, 2022, respectively. Unearned income on corporate loans primarily represents interest received in advance, but not yet earned, on loans originated on a discounted basis.

(4) Not included in the balances above is approximately \$2 billion of accrued interest receivable at June 30, 2023 and December 31, 2022, which is included in *Other assets* on the Consolidated Balance Sheet.

(5) Accrued interest receivable considered to be uncollectible is reversed through interest income. Amounts reversed were not material for the three months ended June 30, 2023 and 2022. The Company sold and/or reclassified to held-for-sale \$1.3 billion and \$2.9 billion of corporate loans during the three and six months ended June 30, 2023, respectively, and \$1.1 billion and \$1.5 billion of corporate loans during the three and six months ended June 30, 2022, respectively. The Company did not have significant purchases of corporate loans classified as held-for-investment for the three and six months ended June 30, 2023.

#### Corporate Loan Delinquencies and Non-Accrual Details at June 30, 2023

In millions of dollars	pa	89 days st due ccruing <sup>(1)</sup>	na	≥ 90 days st due and ccruing <sup>(1)</sup>	Total pas and accr		Tota non-accr	l ual <sup>(2)</sup>	Total current <sup>(3)</sup>	Total loans <sup>(4)</sup>
Commercial and industrial	\$	500	\$	197	\$	697	\$	856	\$ 151,038	\$ 152,591
Financial institutions		10		11		21		93	57,480	57,594
Mortgage and real estate		6		24		30		291	23,180	23,501
Lease financing		_		_		_		_	273	273
Other		56		35		91		21	46,421	46,533
Loans at fair value										5,529
Total	\$	572	\$	267	\$	839	\$	1,261	\$ 278,392	\$ 286,021

Corporate Loan Delinquencies and Non-Accrual Details at December 31, 2022

In millions of dollars	pa	39 days st due ccruing <sup>(1)</sup>	$\geq$ 90 days past due and accruing <sup>(1)</sup>	Total past du and accruing		Total current <sup>(3)</sup>	Total loans <sup>(4)</sup>
Commercial and industrial	\$	763	\$ 594	\$ 1,3	57 \$ 860	\$ 145,586	\$ 147,803
Financial institutions		233	102	3	35 152	64,420	64,907
Mortgage and real estate		30	12		42 33	21,874	21,949
Lease financing		—	1		1 10	343	354
Other		145	18	1	63 67	48,788	49,018
Loans at fair value							5,123
Total	\$	1,171	\$ 727	\$ 1,8	98 \$ 1,122	\$ 281,011	\$ 289,154

(1) Corporate loans that are 90 days past due are generally classified as non-accrual. Corporate loans are considered past due when principal or interest is contractually due but unpaid.

(2) Non-accrual loans generally include those loans that are 90 days or more past due or those loans for which Citi believes, based on actual experience and a forward-looking assessment of the collectibility of the loan in full, that the payment of interest and/or principal is doubtful.

(3) Loans less than 30 days past due are presented as current.

(4) The Total loans column includes loans at fair value, which are not included in the various delinquency columns, and therefore the tables' total rows will not crossfoot.

## **Corporate Loans Credit Quality Indicators**

		Recorded investment in loans <sup>(1)</sup>													
	_			Tern	ı lo	ans by y	ear	of origin	nati	on					
In millions of dollars		2023		2022		2021		2020		2019		Prior		evolving line of credit rangements <sup>(2)</sup>	June 30, 2023
Investment grade <sup>(3)</sup>															
Commercial and industrial <sup>(4)</sup>	\$	40,041	\$	8,089	\$	5,285	\$	2,809	\$	3,151	\$	8,415	\$	37,929	\$ 105,719
Financial institutions <sup>(4)</sup>		6,390		4,490		3,816		572		708		2,087		30,865	48,928
Mortgage and real estate		1,731		4,803		3,752		3,639		1,791		2,259		131	18,106
Other <sup>(5)</sup>		2,174		6,621		1,335		958		734		4,797		26,251	42,870
Total investment grade	\$	50,336	\$	24,003	\$	14,188	\$	7,978	\$	6,384	\$	17,558	\$	95,176	\$ 215,623
Non-investment grade <sup>(3)</sup>															
Accrual															
Commercial and industrial <sup>(4)</sup>	\$	14,071	\$	6,408	\$	2,351	\$	1,666	\$	907	\$	3,657	\$	16,956	\$ 46,016
Financial institutions <sup>(4)</sup>		3,421		1,552		892		23		437		176		2,072	8,573
Mortgage and real estate		608		544		782		510		725		1,419		516	5,104
Other <sup>(5)</sup>		559		756		478		372		497		108		1,145	3,915
Non-accrual															
Commercial and industrial <sup>(4)</sup>		5		81		59		9		52		159		491	856
Financial institutions				3		35		_		8				47	93
Mortgage and real estate		3				38		8		103		86		53	291
Other <sup>(5)</sup>		1		4		1		_		_		11		4	21
Total non-investment grade	\$	18,668	\$	9,348	\$	4,636	\$	2,588	\$	2,729	\$	5,616	\$	21,284	\$ 64,869
Loans at fair value <sup>(6)</sup>															\$ 5,529
Corporate loans, net of unearned income	\$	69,004	\$	33,351	\$	18,824	\$	10,566	\$	9,113	\$	23,174	\$	116,460	\$ 286,021

					R	ecorded	inv	estment i	n lo	ans <sup>(1)</sup>			
		Term	loa	ins by ye	ar c	of origina	tior	n <sup>(7)</sup>					
In millions of dollars	2022	2021		2020		2019		2018		Prior	evolving line of credit rangements <sup>(2)</sup>	De	cember 31, 2022
Investment grade <sup>(3)</sup>													
Commercial and industrial <sup>(4)</sup>	\$ 40,639	\$ 6,124	\$	3,620	\$	3,458	\$	2,617	\$	7,048	\$ 38,358	\$	101,864
Financial institutions <sup>(4)</sup>	11,850	3,877		835		922		333		1,327	37,462		56,606
Mortgage and real estate	4,436	3,236		4,010		2,619		1,127		1,706	152		17,286
Other <sup>(5)</sup>	7,649	2,687		1,439		643		2,119		3,832	26,805		45,174
Total investment grade	\$ 64,574	\$ 15,924	\$	9,904	\$	7,642	\$	6,196	\$	13,913	\$ 102,777	\$	220,930
Non-investment grade <sup>(3)</sup>													
Accrual													
Commercial and industrial <sup>(4)</sup>	\$ 17,278	\$ 3,139	\$	1,973	\$	1,331	\$	965	\$	3,546	\$ 16,848	\$	45,080
Financial institutions <sup>(4)</sup>	4,708	630		197		254		47		240	2,073		8,149
Mortgage and real estate	582	835		429		729		783		801	472		4,631
Other <sup>(5)</sup>	1,244	559		391		413		1		219	1,292		4,119
Non-accrual													
Commercial and industrial <sup>(4)</sup>	1	12		99		115		49		105	479		860
Financial institutions	41	34		—		—					77		152
Mortgage and real estate	10	4		_		_				19	—		33
Other <sup>(5)</sup>	6			26		8		10		11	16		77
Total non-investment grade	\$ 23,870	\$ 5,213	\$	3,115	\$	2,850	\$	1,855	\$	4,941	\$ 21,257	\$	63,101
Loans at fair value <sup>(6)</sup>												\$	5,123
Corporate loans, net of unearned income	\$ 88,444	\$ 21,137	\$	13,019	\$	10,492	\$	8,051	\$	18,854	\$ 124,034	\$	289,154

(1) Recorded investment in a loan includes net deferred loan fees and costs, unamortized premium or discount, less any direct write-downs.

(2) There were no significant revolving line of credit arrangements that converted to term loans during the quarter.

(3) Held-for-investment loans are accounted for on an amortized cost basis.

(4) Includes certain short-term loans with less than one year in tenor.

(5) Other includes installment and other, lease financing and loans to government and official institutions.

(6) Loans at fair value include loans to commercial and industrial, financial institutions, mortgage and real estate and other.

(7) In the first quarter of 2023, Citi identified that at December 31, 2022 certain loans originated prior to 2022 were disclosed as originating in 2022. The table above has been revised to reflect the correct origination year. Citi evaluated the effect of the revision, both qualitatively and quantitatively, and concluded that the impact of the revision was not material. The impact of the revision increased (decreased) the year of origination amounts as follows: \$(24.9) billion, \$2.0 billion, \$3.2 billion, \$4.6 billion, \$4.1 billion and \$11.0 billion for 2022, 2021, 2020, 2019, 2018 and prior, respectively.

## **Corporate Gross Credit Losses**

The table below details gross credit losses recognized during the six months ended June 30, 2023, by year of loan origination:

			For the S	Six Months E	nded June 3	0, 2023		
In millions of dollars	2023	2022	2021	2020	2019		Revolving line of credit arrangement	Total
Commercial and industrial	\$ 8	<b>\$</b> —	\$	\$1\$	— \$	2 9	\$ 48	\$ 59
Financial institutions		_	_	_	_	_	33	33
Mortgage and real estate	_	_	_	1	_	2	_	3
Other <sup>(1)</sup>	—	_	—				30	30
Total	\$ 8	\$	\$	\$	— \$	5 4 5	\$ 111	\$ 125

(1) Other includes installment and other, lease financing and loans to government and official institutions.

#### Non-Accrual Corporate Loans

		June 3	80,	2023		December	r 31	, 2022
In millions of dollars	_	Recorded investment <sup>(1)(2)</sup>		Related specific allowance		Recorded investment <sup>(1)(2)</sup>		Related specific allowance
Non-accrual corporate loans with specific allowances								
Commercial and industrial	\$	528	\$	221	\$	583	\$	268
Financial institutions		87		48		149		51
Mortgage and real estate		153		25		33		4
Other		1		1		_		_
Total non-accrual corporate loans with specific allowances	\$	769	\$	295	\$	765	\$	323
Non-accrual corporate loans without specific allowances								
Commercial and industrial	\$	328		N/A	\$	277		N/A
Financial institutions		6		N/A		3		N/A
Mortgage and real estate		138		N/A		_		N/A
Lease financing				N/A		10		N/A
Other		20		N/A		67		N/A
Total non-accrual corporate loans without specific allowances	\$	492		N/A	\$	357		N/A

(1) Recorded investment in a loan includes net deferred loan fees and costs, unamortized premium or discount, less any direct write-downs.

(2) Interest income recognized for the three and six months ended June 30, 2023 was \$13 million and \$24 million, respectively, and for the three and six months ended June 30, 2022 was \$11 million and \$23 million, respectively.

N/A Not applicable

## Corporate Loan Modifications to Borrowers Experiencing Financial Difficulty

Citi seeks to modify certain corporate loans to borrowers experiencing financial difficulty to reduce Citi's exposure to loss, often providing the borrower with an opportunity to work through financial difficulties. Each modification is unique to the borrower's individual circumstances. The following table details corporate loan modifications granted during the three and six months ended June 30, 2023 to borrowers experiencing financial difficulty by type of modification granted and the financial effect of those modifications. Citi defines a corporate loan modification to a borrower experiencing financial difficulty as a modification of a loan classified as substandard or worse at the time of modification.

	For t	he T	<b>Fhree and Six N</b>	Ionths	Ended June 30, 2	2023
In millions of dollars, except for weighted average term extension	modifications ace at June 30, 2023 <sup>(1)(2)(3)</sup>		Term extension	Tern	ombination: n extension and yment delay <sup>(5)</sup>	Weighted average term extension (months)
Three Months Ended June 30, 2023						
Commercial and industrial	\$ 66	\$	65	\$	1	22
Financial institutions	—					—
Mortgage and real estate	47		46		1	24
Other <sup>(4)</sup>			_			_
Total	\$ 113	\$	111	\$	2	
Six Months Ended June 30, 2023						
Commercial and industrial	\$ 121	\$	95	\$	26	21
Financial institutions	—					—
Mortgage and real estate	49		48		1	23
Other <sup>(4)</sup>	_				—	—
Total	\$ 170	\$	143	\$	27	

(1) The above table reflects activity for loans outstanding as of the end of the reporting period. The balances are not significant as a percentage of the total carrying values of loans by class of receivable as of June 30, 2023.

(2) Commitments to lend to borrowers experiencing financial difficulty that were granted modifications totaled \$492 million as of June 30, 2023.

(3) The allowance for corporate loans, including modified loans, is based on the borrower's overall financial performance. Charge-offs for amounts deemed uncollectible may be recorded at the time of the modification or may have already been recorded in prior periods such that no charge-off is required at the time of modification.

(4) Other includes installment and other, lease financing and loans to government and official institutions.

(5) Payment delays either for principal or interest payments had an immaterial financial impact.

The following table presents the Company's three and six months ended June 30, 2022 corporate troubled debt restructurings (TDRs), under previous GAAP, prior to the Company's adoption of ASU No. 2022-02 on January 1, 2023:

			For the Thr	ee and Six Mon	ths Ended June 30, 2022	
In millions of dollars	TDŘs	ng value of modified the period	involving in the and/or t	DRs g changes amount iming of payments <sup>(1)</sup>	TDRs involving changes in the amount and/or timing of interest payments <sup>(2)</sup>	TDRs involving changes in the amount and/or timing of both principal and interest payments
Three Months Ended June 30, 2022						
Commercial and industrial	\$	3	\$	— \$	_	\$ 3
Other <sup>(3)</sup>		23			—	23
Total	\$	26	\$	— \$	_	\$ 26
Six Months Ended June 30, 2022						
Commercial and industrial	\$	15	\$	— \$	_	\$ 15
Other <sup>(3)</sup>		23		1	_	22
Total	\$	38	\$	1 \$	_	\$ 37

(1) TDRs involving changes in the amount or timing of principal payments may involve principal forgiveness or deferral of periodic and/or final principal payments. Because forgiveness of principal is rare for corporate loans, modifications typically have little to no impact on the loans' projected cash flows and thus little to no impact on the allowance established for the loans. Charge-offs for amounts deemed uncollectible may be recorded at the time of the restructuring or may have already been recorded in prior periods such that no charge-off is required at the time of the modification.

(2) TDRs involving changes in the amount or timing of interest payments may involve a below-market interest rate.

(3) Other includes installment and other, lease financing and loans to government and official institutions.

## **Performance of Modified Corporate Loans**

The following table presents the delinquencies of modified corporate loans to borrowers experiencing financial difficulty. It includes loans that were modified during the six months ended June 30, 2023:

		As of June	e <b>30, 2023</b> <sup>(1)</sup>	
In millions of dollars	Total	Current	30–89 days past due	90+ days past due
Commercial and industrial	\$ 121	\$ 121	s —	\$
Financial institutions	_	_	_	_
Mortgage and real estate	49	49	_	_
Other <sup>(2)</sup>				
Total	\$ 170	\$ 170	s —	\$

(1) Corporate loans are generally not modified as a result of their delinquency status; rather, they are modified because of events that have impacted the overall financial performance of the borrower. Corporate loans, if past due, are re-aged to current status upon modification.

(2) Other includes installment and other, lease financing and loans to government and official institutions.

## **Defaults of Modified Corporate Loans**

No modified corporate loans to borrowers experiencing financial difficulty defaulted during the three and six months ended June 30, 2023. Default is defined as 60 days past due, except for classifiably managed commercial banking loans, where default is defined as 90 days past due. For a modified corporate loan that is not collateral dependent, expected default rates are considered in the loan's individually assessed ACL.

The following table presents the Company's three and six months ended June 30, 2022 corporate TDRs, under previous GAAP, prior to the Company's adoption of ASU No. 2022-02 on January 1, 2023, that defaulted for which the payment default occurred within one year of a permanent modification. Default is defined as 60 days past due:

	 TDR	TDR loans that re-defaulted within one year of modification during the					
In millions of dollars		e Months Ended une 30, 2022	Six Months Ended June 30, 2022				
Commercial and industrial	\$ 148 \$	— \$	· —				
Mortgage and real estate	16	—	_				
Other <sup>(1)</sup>	39						
Total <sup>(2)</sup>	\$ 203 \$	— \$	· · · ·				

(1) Other includes installment and other, lease financing and loans to government and official institutions.

(2) The above table reflects activity for loans outstanding that were considered TDRs as of the end of the reporting period.

## **Consumer Loans**

Consumer loans represent loans and leases managed primarily by *PBWM* and *Legacy Franchises* (except Mexico SBMM). The tables below present details about these loans, including the following loan categories:

- Residential first mortgages and Home equity loans in North America offices primarily represent secured mortgage lending to customers of Retail banking and Global Wealth (primarily Private bank and Citigold).
- Credit cards in North America offices primarily represent unsecured credit card lending to customers of Branded cards and Retail services.
- Personal, small business and other loans in North America are primarily composed of classifiably managed loans to customers of Global Wealth (mostly within the Private bank) who are typically high credit quality borrowers that historically experienced minimal delinquencies and credit losses. Loans to these borrowers are generally well collateralized in the form of liquid securities and other forms of collateral.
- Residential mortgage loans in offices outside North America primarily represent secured mortgage lending to customers of Global Wealth (primarily Private bank and Citigold) as well as customers of *Legacy Franchises*.
- Credit cards in offices outside North America primarily represent unsecured credit card lending to customers of *PBWM* and *Legacy Franchises*, primarily in Asia and Mexico.
- Personal, small business and other loans in offices outside North America are primarily composed of secured and unsecured loans to customers of *PBWM* and *Legacy Franchises*. A significant portion of *PBWM* loans is classifiably managed and represents loans to high credit quality Private bank customers who have historically experienced minimal delinquencies and credit losses. Loans to these borrowers are generally well collateralized in the form of liquid securities and other forms of collateral.

The following tables provide Citi's consumer loans by type:

#### Consumer Loans, Delinquencies and Non-Accrual Status at June 30, 2023

		Total		30-89	2	90 days	ast due ernment	Total	a lo	Non- ccrual ans for which ere is no	lo	Non- accrual bans for which ere is an	Fotal non-	90 days bast due
In millions of dollars	cu	rrent <sup>(1)(2)</sup>	ua (	iys past lue <sup>(3)(4)</sup>		past due <sup>(3)(4)</sup>	anteed <sup>(5)</sup>	loans		ACLL		ACLL	ccrual	l accruing
In North America offices <sup>(6)</sup>														
Residential first mortgages <sup>(7)</sup>	\$	101,780	\$	371	\$	285	\$ 244	\$ 102,680	\$	101	\$	380	\$ 481	\$ 139
Home equity loans <sup>(8)(9)</sup>		3,869		35		96	_	4,000		46		139	185	—
Credit cards		149,487		1,741		1,723	_	152,951		_		_	_	1,723
Personal, small business and other <sup>(10)</sup>		37,038		89		29	5	37,161		4		34	38	7
Total	\$	292,174	\$	2,236	\$	2,133	\$ 249	\$ 296,792	\$	151	\$	553	\$ 704	\$ 1,869
In offices outside North America <sup>(6)</sup>														
Residential mortgages <sup>(7)</sup>	\$	26,950	\$	48	\$	92	\$ _	\$ 27,090	\$	_	\$	328	\$ 328	\$ 18
Credit cards		13,344		180		190	_	13,714		—		172	172	60
Personal, small business and other <sup>(10)</sup>		36,848		108		39		36,995		_		117	117	
Total	\$	77,142	\$	336	\$	321	\$ _	\$ 77,799	\$	_	\$	617	\$ 617	\$ 78
Total Citigroup <sup>(11)(12)</sup>	\$	369,316	\$	2,572	\$	2,454	\$ 249	\$ 374,591	\$	151	\$	1,170	\$ 1,321	\$ 1,947

Consumer Loans, Delinquencies and Non-Accrual Status at December 31, 2022

In millions of dollars	сі	Total urrent <sup>(1)(2)</sup>	30–89 ays past lue <sup>(3)(4)</sup>	_	90 days past due <sup>(3)(4)</sup>	Past due government guaranteed <sup>(5)</sup>		Fotal oans	le th	Non- accrual oans for which ere is no ACLL	lc th	Non- accrual bans for which ere is an ACLL	Total non- ccrual	1	90 days past due d accruing
In North America offices <sup>(6)</sup>															
Residential first mortgages <sup>(7)</sup>	\$	95,023	\$ 421	\$	316	\$ 5 279	\$ 9	96,039	\$	86	\$	434	\$ 520	\$	163
Home equity loans <sup>(8)(9)</sup>		4,407	38		135	—		4,580		51		151	202		_
Credit cards		147,717	1,511		1,415		15	50,643				_			1,415
Personal, small business and other <sup>(10)</sup>		37,635	88		22	7	3	37,752		3		23	26		11
Total	\$	284,782	\$ 2,058	\$	1,888	\$ 5 286	\$ 28	39,014	\$	140	\$	608	\$ 748	\$	1,589
In offices outside North America <sup>(6)</sup>															
Residential mortgages <sup>(7)</sup>	\$	27,946	\$ 62	\$	106	\$ s —	\$ 2	28,114	\$		\$	305	\$ 305	\$	13
Credit cards		12,659	147		149	—	1	12,955				127	127		56
Personal, small business and other <sup>(10)</sup>		37,869	105		10	_	3	37,984				137	137		_
Total	\$	78,474	\$ 314	\$	265	\$ S —	\$ 7	79,053	\$		\$	569	\$ 569	\$	69
Total Citigroup <sup>(11)(12)</sup>	\$	363,256	\$ 2,372	\$	2,153	\$ <b>5</b> 286	\$ 36	58,067	\$	140	\$	1,177	\$ 1,317	\$	1,658

(1) Loans less than 30 days past due are presented as current.

(2) Includes \$237 million and \$237 million at June 30, 2023 and December 31, 2022, respectively, of residential first mortgages recorded at fair value.

(3) Excludes loans guaranteed by U.S. government-sponsored agencies. Excludes delinquencies on \$30.6 billion and \$17.9 billion of classifiably managed Private bank loans in North America and outside North America, respectively, at June 30, 2023. Excludes delinquencies on \$31.5 billion and \$17.8 billion of classifiably managed Private bank loans in North America and outside North America, respectively, at December 31, 2022.

(4) Loans modified under Citi's COVID-19 consumer relief programs continue to be reported in the same delinquency bucket they were in at the time of modification. Most modified loans in North America would not be reported as 30–89 or 90+ days past due for the duration of the programs (which have various durations, and certain of which may be renewed).

(5) Consists of loans that are guaranteed by U.S. government-sponsored agencies that are 30–89 days past due of \$0.1 billion and \$0.1 billion and 90 days or more past due of \$0.1 billion and \$0.2 billion at June 30, 2023 and December 31, 2022, respectively.

(6) North America includes the U.S., Canada and Puerto Rico. Mexico is included in offices outside North America.

(7) Includes approximately \$0.2 billion and \$0.0 billion of residential first mortgage loans in process of foreclosure in North America and outside North America, respectively, and \$20.4 billion of residential mortgages outside North America related to the Global Wealth business at June 30, 2023. Includes approximately \$0.1 billion and \$0.0 billion of residential first mortgage loans in process of foreclosure in North America and outside North America, respectively, and \$19.8 billion of residential mortgages outside North America related to the Global Wealth business at December 31, 2022.

(8) Includes approximately \$0.1 billion and \$0.1 billion at June 30, 2023 and December 31, 2022, respectively, of home equity loans in process of foreclosure.

(9) Fixed-rate home equity loans and loans extended under home equity lines of credit, which are typically in junior lien positions.

- (10) Includes loans related to the Global Wealth business: \$33.1 billion in North America, approximately \$30.6 billion of which are classifiably managed, and as of June 30, 2023 approximately 99% were rated investment grade; and \$26.0 billion outside North America, approximately \$17.9 billion of which are classifiably managed, and as of June 30, 2023 approximately 93% were rated investment grade. Includes loans related to the Global Wealth business: \$34.0 billion in North America, approximately \$31.5 billion of which are classifiably managed, and as of December 31, 2022 approximately 98% were rated investment grade; and \$26.6 billion outside North America, approximately \$17.8 billion of which are classifiably managed, and as of December 31, 2022 approximately 98% were rated investment grade; and \$26.6 billion outside North America, approximately \$17.8 billion of which are classifiably managed, and as of December 31, 2022 approximately 94% were rated investment grade. The classifiably managed portion of these loans is shown as "current" because the delinquency status is not applicable, since these loans are primarily evaluated for credit risk based on their internal risk classification.
- (11) Consumer loans are net of unearned income of \$769 million and \$712 million at June 30, 2023 and December 31, 2022, respectively. Unearned income on consumer loans primarily represents unamortized origination fees and costs, premiums and discounts.
- (12) Not included in the balances above are approximately \$1 billion and \$1 billion of accrued interest receivable at June 30, 2023 and December 31, 2022, respectively, which are included in *Other assets* on the Consolidated Balance Sheet, except for credit card loans (which include accrued interest and fees). When a loan becomes non-accrual or, if not subject to a non-accrual policy, is charged off per the Company's charge-off policy, any accrued interest receivable is also reversed against the interest income. During the three and six months ended June 30, 2023, the Company reversed accrued interest of approximately \$0.3 billion and \$0.5 billion, respectively, primarily related to credit card loans. During the three and six months ended June 30, 2022, the Company reversed accrued interest of approximately \$0.3 billion, respectively, primarily related to credit card loans.

In millions of dollars	 nths Ended 60, 2023	Three Months Ended June 30, 2022	Six Months Ended June 30, 2023	5	Six Months Ended June 30, 2022
In North America offices <sup>(1)</sup>					
Residential first mortgages	\$ 3 \$	3	\$	6\$	6
Home equity loans	1	1		3	2
Credit cards	_	—	-	_	—
Personal, small business and other	1	1		1	1
Total	\$ 5 \$	5 5	\$ 1	0\$	9
In offices outside North America <sup>(1)</sup>					
Residential mortgages	\$ 4 \$	S —	\$	5\$	
Credit cards	_	—	-	_	—
Personal, small business and other	_	—	_	_	—
Total	\$ 4 \$	S _	\$	5\$	_
Total Citigroup	\$ 9\$	5 5	\$ 1	5 \$	9

#### Interest Income Recognized for Non-Accrual Consumer Loans

(1) North America includes the U.S., Canada and Puerto Rico. Mexico is included in offices outside North America.

During the three and six months ended June 30, 2023, the Company sold and/or reclassified to held-for-sale \$2 million and \$1.8 billion of consumer loans, respectively. During the three and six months ended June 30, 2022, the Company sold and/or reclassified to held-for-sale \$367 million and \$374 million of consumer loans, respectively. The increase was due to the reclassification of a portfolio to HFS in the first quarter of 2023. The Company did not have significant purchases of consumer loans classified as held-for-investment for the three and six months ended June 30, 2023 or 2022. Loans held by a business for sale are not included in the above since they have been reclassified to *Other assets*. See Note 2 for additional information regarding Citigroup's businesses held-for-sale.

## **Consumer Credit Scores (FICO)**

The following tables provide details on the Fair Isaac Corporation (FICO) scores for Citi's U.S. consumer loan portfolio based on end-of-period receivables by year of origination. FICO scores are updated monthly for substantially all of the portfolio or, otherwise, on a quarterly basis for the remaining portfolio. With respect to Citi's consumer loan portfolio outside of the U.S. as of June 30, 2023 and December 31, 2022 (\$79.3 billion and \$80.5 billion, respectively), various country-specific or regional credit risk metrics and acquisition and behavior scoring models are leveraged as one of the factors to evaluate the credit quality of customers (for additional information on loans outside of the U.S., see "Consumer Loans and Ratios Outside of North America" below). As a result, details of relevant credit quality indicators for those loans are not comparable to the below FICO score distribution for the U.S. portfolio.

FICO score distribution—U.S. portfolio <sup>(1)(2)</sup>					June 3	0, 2023		
In millions of dollars	L	ess than 680	680 to 760		Greater than 760	Classifiably managed <sup>(3)</sup>	FICO not available <sup>(4)</sup>	Total loans
Residential first mortgages								
2023	\$	151 \$	\$ 2,704	1\$	5,671			
2022		717	6,65	)	13,618			
2021		602	5,74	7	12,540			
2020		393	4,36	)	10,860			
2019		312	2,34	5	5,350			
Prior		2,185	7,09	)	13,907			
Total residential first mortgages	\$	4,360 \$	<b>5 28,91</b>	1\$	61,946	<b>\$</b> —	\$ 7,460	\$ 102,680
Home equity loans (pre-reset)	\$	490 \$	§ 1,212	2 \$	1,736			
Home equity loans (post-reset)		71	70	5	45			
Home equity term loans		92	13	7	108			
2023			_	_	_			
2022		_	_	_	_			
2021				l	1			
2020		1	2	2	2			
2019		1		1	1			
Prior		90	13.	3	104			
Total home equity loans	\$	653 8	<b>5</b> 1,42	5\$	1,889	\$	\$ 33	\$ 4,000
Credit cards	\$	29,111	59,06	) \$	60,712			
Revolving loans converted to term loans <sup>(5)</sup>		913	35'	7	54			
Total credit cards <sup>(6)</sup>	\$	30,024 \$	\$ 59,42	5\$	60,766	<b>\$</b> —	\$ 2,136	\$ 152,352
Personal, small business and other								
2023	\$	10 5	\$ 4	5\$	105			
2022		268	51:	5	712			
2021		80	12	)	151			
2020		11	14	1	20			
2019		13	14	1	16			
Prior		126	18	1	135			
Total personal, small business and other <sup>(7)(8)</sup>	\$	508 5	\$ 89	<b>3</b> \$	1,139	\$ 30,596	\$ 3,101	\$ 36,242
Total	\$	35,545 \$	\$ 90,66	3 \$	125,740	\$ 30,596	\$ 12,730	\$ 295,274

FICO score distribution—U.S. portfolio <sup>(1)(2)</sup>				December	31, 2022		
In millions of dollars	L	ess than 680	680 to 760	Greater than 760	Classifiably managed <sup>(3)</sup>	FICO not available <sup>(4)</sup>	Total loans
Residential first mortgages							
2022	\$	691 \$	7,530	\$ 12,928			
2021		639	5,933	12,672			
2020		431	4,621	10,936			
2019		321	2,505	5,445			
2018		302	1,072	1,899			
Prior		2,020	6,551	12,649			
Total residential first mortgages	\$	4,404 \$	28,212	\$ 56,529		\$ 6,894	\$ 96,039
Home equity line of credit (pre-reset)	\$	552 \$	1,536	\$ 1,876			
Home equity line of credit (post-reset)		62	65	40			
Home equity term loans		106	151	117			
2022		_	—	—			
2021			1	1			
2020		1	2	2			
2019		1	2	2			
2018		1	2	1			
Prior		103	144	111			
Total home equity loans	\$	720 \$	1,752	\$ 2,033		\$ 75	\$ 4,580
Credit cards	\$	27,901 \$	58,213	\$ 60,896			
Revolving loans converted to term loans <sup>(5)</sup>		766	354	54			
Total credit cards <sup>(6)</sup>	\$	28,667 \$	58,567	\$ 60,950		\$ 1,914	\$ 150,098
Personal, small business and other							
2022	\$	247 \$	546	\$ 800			
2021		96	170	210			
2020		15	20	30			
2019		21	23	28			
2018		10	10	9			
Prior		126	190	144			
Total personal, small business and other <sup>(7)(8)</sup>	\$	515 \$	959	\$ 1,221	\$ 31,478	\$ 2,639	\$ 36,812
Total	\$	34,306 \$	89,490	\$ 120,733	\$ 31,478	\$ 11,522	\$ 287,529

(1) The FICO bands in the tables are consistent with general industry peer presentations.

(2) FICO scores are updated on either a monthly or quarterly basis. For updates that are made only quarterly, certain current-period loans by year of origination are greater than those disclosed in the prior periods. Loans that did not have FICO scores as of the prior period have been updated with FICO scores as they become available.

(3) These personal, small business and other loans without a FICO score available include \$30.6 billion and \$31.5 billion of Private bank loans as of June 30, 2023 and December 31, 2022, respectively, which are classifiably managed within Global Wealth and are primarily evaluated for credit risk based on their internal risk ratings. As of June 30, 2023 and December 31, 2022, approximately 99% and 98% of these loans, respectively, were rated investment grade.

(4) FICO scores not available related to loans guaranteed by government-sponsored enterprises for which FICO scores are generally not utilized.

(5) Not included in the tables above are \$63 million and \$75 million of revolving credit card loans outside of the U.S. that were converted to term loans as of June 30, 2023 and December 31, 2022, respectively.

(6) Excludes \$599 million and \$545 million of balances related to Canada for June 30, 2023 and December 31, 2022, respectively.

(7) Excludes \$919 million and \$940 million of balances related to Canada for June 30, 2023 and December 31, 2022, respectively.

(8) Includes approximately \$49 million and \$67 million of personal revolving loans that were converted to term loans for June 30, 2023 and December 31, 2022, respectively.

## **Consumer Gross Credit Losses**

The following table provides details on gross credit losses recognized during the six months ended June 30, 2023, by year of loan origination:

In millions of dollars	lonths Ended 1e 30, 2023
Residential first mortgages	
2023	\$ —
2022	1
2021	—
2020	1
2019	3
Prior	20
Total residential first mortgages	\$ 25
Home equity line of credit (pre-reset)	\$ 2
Home equity line of credit (post-reset)	—
Home equity term loans	1
Total home equity loans	\$ 3
Credit cards	\$ 2,925
Revolving loans converted to term loans	87
Total credit cards	\$ 3,012
Personal, small business and other	
2023	\$ 69
2022	89
2021	56
2020	23
2019	27
Prior	84
Total personal, small business and other	\$ 348
Total Citigroup	\$ 3,388

## Loan-to-Value (LTV) Ratios-U.S. Consumer Mortgages

LTV ratios (loan balance divided by appraised value) are calculated at origination and updated by applying market price data.

The following tables provide details on the LTV ratios for Citi's U.S. consumer mortgage portfolios by year of origination. LTV ratios are updated monthly using the most recent Core Logic Home Price Index data available for substantially all of the portfolio applied at the Metropolitan Statistical Area level, if available, or the state level if not. The remainder of the portfolio is updated in a similar manner using the Federal Housing Finance Agency indices.

LTV distribution—U.S. portfolio			Ju	ine 30, 2023						
In millions of dollars	Less than or equal to 80%		> 80% but less than or equal to 100%					LTV not available <sup>(1)</sup>		Total
Residential first mortgages										
2023	\$	6,634	\$	1,975	\$	6				
2022		16,146		5,916		43				
2021		18,846		1,096		33				
2020		16,451		362		1				
2019		8,395		226		26				
Prior		25,029		318		78				
Total residential first mortgages	\$	91,501	\$	9,893	\$	187	\$ 1,0	99	\$	102,680
Home equity loans (pre-reset)	\$	3,167	\$	28	\$	9				
Home equity loans (post-reset)		491		8		13				
Total home equity loans	\$	3,658	\$	36	\$	22	\$ 2	84	\$	4,000
Total	\$	95,159	\$	9,929	\$	209	\$ 1,3	83	\$	106,680

LTV distribution—U.S. portfolio	Ι	Dece	ember 31, 202	2			
In millions of dollars	ess than or equal to 80%		80% but less an or equal to 100%		Greater than 100%	LTV not available <sup>(1)</sup>	Total
Residential first mortgages							
2022	\$ 15,644	\$	6,497	\$	40		
2021	19,104		1,227		33		
2020	16,935		267		1		
2019	8,789		140		23		
2018	3,598		74		9		
Prior	22,367		132		74		
Total residential first mortgages	\$ 86,437	\$	8,337	\$	180	\$ 1,085	\$ 96,039
Home equity loans (pre-reset)	\$ 3,677	\$	36	\$	56		
Home equity loans (post-reset)	627		12		27		
Total home equity loans	\$ 4,304	\$	48	\$	83	\$ 145	\$ 4,580
Total	\$ 90,741	\$	8,385	\$	263	\$ 1,230	\$ 100,619

(1) Residential first mortgages with no LTV information available includes government-guaranteed loans that do not require LTV information for credit risk assessment and fair value loans.

## Loan-to-Value (LTV) Ratios—Outside of U.S. Consumer Mortgages

The following tables provide details on the LTV ratios for Citi's consumer mortgage portfolio outside of the U.S. by year of origination:

LTV distribution—outside of U.S. portfolio <sup>(1)</sup>			June 3	0, 2023			
In millions of dollars	01	ss than r equal o 80%	> 80% than or to 10	equal	Greater than 100%	LTV not available	Total
Residential mortgages							
2023	\$	1,847	\$	620	<b>\$</b> —		
2022		3,356		1,102	33		
2021		3,713		1,069	44		
2020		2,845		385	_		
2019		2,775		63	1		
Prior		8,942		44	8		
Total	\$	23,478	\$	3,283	\$ 86	\$ 243	\$ 27,090

LTV distribution—outside of U.S. portfolio <sup>(1)</sup>	December 31, 2022								
In millions of dollars	0	ess than r equal 5 80%	> 80% but less than or equal to $100%$	Greater than 100%	LTV not available	Total			
Residential mortgages									
2022	\$	3,106	\$ 975	\$ 294					
2021		4,144	964	273					
2020		3,293	502	25					
2019		3,048	92	1					
2018		2,074	48	_					
Prior		9,201	36	7					
Total	\$	24,866	\$ 2,617	\$ 600	\$ 31 5	\$ 28,114			

(1) Mortgage portfolios outside of the U.S. are primarily in Global Wealth. As of June 30, 2023 and December 31, 2022, mortgage portfolios outside of the U.S. had an average LTV of approximately 52% and 51%, respectively.

#### **Consumer Loans and Ratios Outside of North America**

				1	Delinquency-n	nanaged loan	is and ratios	
In millions of dollars at June 30, 2023	C	Total ns outside of North merica <sup>(1)</sup>	Classifiably managed loans <sup>(2)</sup>	Delinquency- managed loans	30–89 days past due ratio	≥90 days past due ratio	2Q23 NCL ratio	2Q22 NCL ratio
Residential mortgages <sup>(3)</sup>	\$	27,090	s —	\$ 27,090	0.18 %	0.34 %	(0.01)%	0.04 %
Credit cards		13,714	_	13,714	1.31	1.39	3.98	3.08
Personal, small business and other <sup>(4)</sup>		36,995	17,902	19,093	0.57	0.20	0.91	0.55
Total	\$	77,799	\$ 17,902	\$ 59,897	0.56 %	0.54 %	1.12 %	0.72 %

				Delinquency-	managed loans	s and ratios
In millions of dollars at December 31, 2022	(	Total ns outside of North merica <sup>(1)</sup>	Classifiably managed loans <sup>(2)</sup>	Delinquency- managed loans	30–89 days past due ratio	≥ 90 days past due ratio
Residential mortgages <sup>(3)</sup>	\$	28,114	\$ —	\$ 28,114	0.22 %	0.38 %
Credit cards		12,955	_	12,955	1.13	1.15
Personal, small business and other <sup>(4)</sup>		37,984	17,762	20,222	0.52	0.05
Total	\$	79,053	\$ 17,762	\$ 61,291	0.51 %	0.43 %

(1) Mexico is included in offices outside of North America.

Classifiably managed loans are primarily evaluated for credit risk based on their internal risk classification. As of June 30, 2023 and December 31, 2022, (2)approximately 93% and 94% of these loans, respectively, were rated investment grade.

Includes \$20.4 billion and \$19.8 billion as of June 30, 2023 and December 31, 2022, respectively, of residential mortgages related to the Global Wealth business. (3)

Includes \$26.0 billion and \$26.6 billion as of June 30, 2023 and December 31, 2022, respectively, of loans related to the Global Wealth business. (4)

## **Consumer Loan Modifications to Borrowers Experiencing Financial Difficulty**

Citi seeks to modify consumer loans to borrowers experiencing financial difficulty to minimize losses, avoid foreclosure or repossession of collateral, and ultimately maximize payments received from the borrowers. Citi uses various metrics to identify consumer borrowers experiencing financial difficulty, with the primary indicator being delinquency at the time of modification. Citi's significant consumer modification programs are described below.

### Credit Cards

Citi seeks to assist credit card borrowers who are experiencing financial difficulty by offering long-term loan modification programs. These modifications generally involve reducing the interest rate on the credit card, placing the customer on a fixed payment plan not to exceed 60 months and canceling the customer's available line of credit. Citi also grants modifications to credit card borrowers working with thirdparty renegotiation agencies that seek to restructure customers' entire unsecured debt. In both circumstances, if the cardholder does not comply with the modified payment terms, the credit card loan continues to age and will ultimately be charged off in accordance with Citi's standard charge-off policy. In certain situations, Citi may forgive a portion of an outstanding balance if the borrower pays a required amount.

### **Residential Mortgages**

Citi seeks to assist residential mortgage borrowers who are experiencing financial difficulty primarily by offering interest rate reductions, principal and/or interest forbearance, term extensions or combinations thereof. Borrowers enrolled in forbearance programs typically have payments suspended until the end of the forbearance period. In the U.S., before permanently modifying the contractual payment terms of a mortgage loan, Citi enters into a trial modification with the borrower. Trial modifications generally represent a threemonth period during which the borrower makes monthly payments under the anticipated modified payment terms. These loans continue to age and accrue interest in accordance with their original contractual terms. Upon successful completion of the trial period, and the borrower's formal acceptance of the modified terms, Citi and the borrower enter into a permanent modification. Citi expects the majority of loans entering trial modifications to ultimately be enrolled in a permanent modification. During the three and six months ended June 30, 2023, \$15 million and \$26 million, respectively, of mortgage loans were enrolled in trial programs. Mortgage loans of \$1 million and \$2 million had gone through Chapter 7 bankruptcy during the three and six months ended June 30, 2023, respectively.

## Types of Consumer Loan Modifications and Their Financial Effect

The following tables provide details on permanent consumer loan modifications granted during the three and six months ended June 30, 2023 to borrowers experiencing financial difficulty by type of modification granted and the financial effect of those modifications:

				F	or the T	hree Month	s Ended Jui	ne 30, 202	23	
In millions of dollars, except weighted averages	Modifications as % of loans	Total modifications balance at June 30, 2023 <sup>(1)(2)(3)</sup>	Interest rate reduction	Term extension	Payment delay	Combination: interest rate reduction and term extension	Combination: term extension and payment delay <sup>(4)</sup>	Weighted average interest rate reduction %	Weighted average term extension (months)	Weighted average delay in payments (months)
In North America offices <sup>(5)</sup>										
Residential first mortgages <sup>(6)</sup>	0.05 %	\$ 47	\$ 1	\$ 15	\$ 29	\$ 2	<b>\$</b> —	1 %	191	6
Home equity loans	0.23	9	_	_	1	8	_	2	119	6
Credit cards	0.18	275	275	—	_	—	_	22	—	—
Personal, small business and other	0.01	4	—	1		3	_	6	13	
Total	0.11 %	\$ 335	\$ 276	\$ 16	\$ 30	\$ 13	s —			
In offices outside North America <sup>(5)</sup>										
Residential mortgages	1.03 %	\$ 278	\$ 3	<b>\$</b> —	<b>\$</b> —	\$	<b>\$</b> 275	— %	1	1
Credit cards	0.09	12	12	_	_	_	—	18	_	_
Personal, small business and other	0.02	7	1	2		4	_	9	20	
Total	0.38 %	\$ 297	\$ 16	\$ <b>2</b>	\$	\$ 4	\$ 275			

#### For the Six Months Ended June 30, 2023

In millions of dollars, except weighted averages	Modifications as % of loans	Total modifications balance at June 30, 2023 <sup>(1)(2)(3)</sup>	Interest rate reduction	Term extension	Payment delay	Combination: interest rate reduction and term extension	Combination: term extension and payment delay <sup>(4)</sup>	Weighted average interest rate reduction %	Weighted average term extension (months)	Weighted average delay in payments (months)
In North America offices <sup>(5)</sup>										
Residential first mortgages <sup>(6)</sup>	0.10 %	\$ 100	\$1	\$ 30	\$ 64	\$ 5	s —	1 %	187	6
Home equity loans	0.48	19	—	_	6	13	_	2	120	6
Credit cards	0.33	499	499	_	_	_	_	22	_	_
Personal, small business and other	0.02	6	1	1	_	4	_	6	14	_
Total	0.21 %	\$ 624	\$ 501	\$ 31	<b>\$</b> 70	\$ 22	s —			
In offices outside North America <sup>(5)</sup>										
Residential mortgages	1.09 %	\$ 296	<b>\$</b> 5	<b>\$</b> —	<b>\$</b> —	<b>\$</b> 1	\$ 290	_%	2	2
Credit cards	0.17	23	23	_	_	_	_	18	_	_
Personal, small business and other	0.04	16	3	4	_	9	_	8	21	
Total	0.43 %	\$ 335	\$ 31	\$ 4	<b>\$</b> —	\$ 10	\$ 290			

(1) The above tables reflect activity for loans outstanding as of the end of the reporting period. During the three and six months ended June 30, 2023, Citi granted forgiveness of \$16 million and \$26 million, respectively, in credit card loans, and \$1 million and \$1 million, respectively, in personal, small business and other loans that had no outstanding balance at June 30, 2023.

(2) Commitments to lend to borrowers experiencing financial difficulty that were granted modifications included in the tables above were immaterial at June 30, 2023.

(3) For major consumer portfolios, the ACLL is based on macroeconomic-sensitive models that rely on historical performance and macroeconomic scenarios to forecast expected credit losses. Modifications of consumer loans impact expected credit losses by affecting the likelihood of default.

(4) Residential mortgages in offices outside North America were granted four months of payment deferrals during the six months ended December 31, 2022.

(5) North America includes the U.S., Canada and Puerto Rico. Mexico is included in offices outside North America.

(6) Excludes residential first mortgages discharged in Chapter 7 bankruptcy in the three and six months ended June 30, 2023.

The following tables present the Company's three and six months ended June 30, 2022 consumer TDRs, under previous GAAP, prior to the Company's adoption of ASU No. 2022-02 on January 1, 2023:

## **Consumer Troubled Debt Restructurings**<sup>(1)</sup>

		For	the Three Months	Ended June 30, 20	22	
In millions of dollars, except number of loans modified	Number of loans modified	Post- modification recorded investment <sup>(2)(3)</sup>	Deferred principal <sup>(4)</sup>	Contingent principal forgiveness <sup>(5)</sup>	Principal forgiveness <sup>(6)</sup>	Average interest rate reduction
North America						
Residential first mortgages	279	\$ 56	\$	\$	\$	— %
Home equity loans	103	7	—	—	—	
Credit cards	36,820	157	—	—	—	18
Personal, small business and other	105	1	_	—	_	5
Total <sup>(7)</sup>	37,307	\$ 221	\$ —	\$ —	\$ —	
International						
Residential mortgages	110	\$ 4	\$	\$	\$	— %
Credit cards	3,462	13	—	—	—	27
Personal, small business and other	595	7	—	—	—	8
Total <sup>(7)</sup>	4,167	\$ 24	\$	\$ —	\$ —	

		Fo	or the Six Months	Ended June 30, 2022	2	
In millions of dollars, except number of loans modified	Number of loans modified	Post- modification recorded investment <sup>(2)(8)</sup>	Deferred principal <sup>(4)</sup>	Contingent principal forgiveness <sup>(5)</sup>	Principal forgiveness <sup>(6)</sup>	Average interest rate reduction
North America						
Residential first mortgages	625	\$ 137	\$	\$ _ \$		<u> </u>
Home equity loans	207	16	—	—	_	_
Credit cards	77,560	330	—	—	_	17
Personal, small business and other	251	2	_		_	5
Total <sup>(7)</sup>	78,643	\$ 485	\$ —	\$ - \$		
International						
Residential first mortgages	293	\$ 10	\$	\$ _ \$		<u> </u>
Credit cards	8,462	35	—	—	1	23
Personal, small business and other	1,267	16	_	_	_	8
Total <sup>(7)</sup>	10,022	\$ 61	\$ —	\$ _ \$	6 1	

(1) The above tables do not include loan modifications that meet the TDR relief criteria in the Coronavirus Aid, Relief, and Economic Security Act (CARES Act) or the interagency guidance.

(2) Post-modification balances include past-due amounts that are capitalized at the modification date.

(3) Post-modification balances in North America include \$0.4 million of residential first mortgages to borrowers who have gone through Chapter 7 bankruptcy in the three months ended June 30, 2022. These amounts include \$0.4 million of residential first mortgages that were newly classified as TDRs in the three months ended June 30, 2022, based on previously received OCC guidance.

(4) Represents portion of contractual loan principal that is non-interest bearing, but still due from the borrower. Such deferred principal is charged off at the time of permanent modification to the extent that the related loan balance exceeds the underlying collateral value.

(5) Represents portion of contractual loan principal that is non-interest bearing and, depending upon borrower performance, eligible for forgiveness.

(6) Represents portion of contractual loan principal that was forgiven at the time of permanent modification.

(7) The above tables reflect activity for restructured loans that were considered TDRs during the reporting period.

(8) Post-modification balances in North America include \$2 million of residential first mortgages to borrowers who have gone through Chapter 7 bankruptcy in the six months ended June 30, 2022. These amounts include \$2 million of residential first mortgages that were newly classified as TDRs in the six months ended June 30, 2022, based on previously received OCC guidance.

## **Performance of Modified Consumer Loans**

The following table presents the delinquencies and gross credit losses of permanently modified consumer loans to borrowers experiencing financial difficulty. It includes loans that were modified during the six months ended June 30, 2023:

			I	As o	of June 30, 202				
In millions of dollars	Total		Current		30–89 days past due		90+ days past due		Gross redit losses
In North America offices <sup>(1)</sup>									
Residential first mortgages	\$ 100	\$	36	\$	20	\$	44	\$	_
Home equity loans	19		14		1		4		_
Credit cards	499		319		102		78		57
Personal, small business and other	6		6		_		_		
Total <sup>(2)(3)</sup>	\$ 624	\$	375	\$	123	\$	126	\$	57
In offices outside North America <sup>(1)</sup>									
Residential mortgages	\$ 296	\$	295	\$	1	\$	_	\$	_
Credit cards	23		20		2		1		_
Personal, small business and other	16		14		1		1		1
Total <sup>(2)(3)</sup>	\$ 335	\$	329	\$	4	\$	2	\$	1

(1) North America includes the U.S., Canada and Puerto Rico. Mexico is included in offices outside North America.

Typically, upon modification a loan re-ages to current. However, FFIEC guidelines for re-aging certain loans require that at least three consecutive minimum (2)monthly payments, or the equivalent amount, be received. In these cases, the loan will remain delinquent until the payment criteria for re-aging have been satisfied.

Loans modified under Citi's COVID-19 consumer relief programs continue to be reported in the same delinquency bucket they were in at the time of (3) modification.

## **Defaults of Modified Consumer Loans**

The following tables present default activity for permanently modified consumer loans to borrowers experiencing financial difficulty by type of modification granted, including loans that were modified and subsequently defaulted during the three and six months ended June 30, 2023. Default is defined as 60 days past due:

	For the Three Months Ended June 30, 2023								
In millions of dollars	Tot	al <sup>(1)(2)</sup>	Interest rate reduction	Term extension	Payment delay	Combination: interest rate reduction and term extension	Combination: term extension and payment delay	Combination: interest rate reduction, term extension and payment delay	
In North America offices <sup>(3)</sup>									
Residential first mortgages	\$	1	<b>\$</b> 1	\$	\$	s —	\$	s —	
Home equity loans		_	_	_	_		_	—	
Credit cards <sup>(4)</sup>		50	50	_	_		_	—	
Personal, small business and other		—						—	
Total	\$	51	<b>\$</b> 51	\$	\$	s —	\$	s —	
In offices outside North America <sup>(3)</sup>									
Residential mortgages	\$		s —	\$	\$	s —	\$	s —	
Credit cards <sup>(4)</sup>		1	1	_	_				
Personal, small business and other									
Total	\$	1	\$ 1	<b>\$</b> —	\$	\$	s —	s —	

For the Six Months Ended June 30, 2023

In millions of dollars	Tot	al <sup>(1)(2)</sup>	nterest rate duction	Term extensior		Payment delay	Combination: interest rate reduction and term extension	term extension and payment	Combination: interest rate reduction, term extension and payment delay
In North America offices <sup>(3)</sup>									
Residential first mortgages	\$	1	\$ 1	\$ -	- \$	—	<b>\$</b> —	\$	\$
Home equity loans				_	-				—
Credit cards <sup>(4)</sup>		55	55	_	-	—			—
Personal, small business and other		_		_	-	—			—
Total	\$	56	\$ 56	\$ -	- \$	—	<b>\$</b> —	\$	\$
In offices outside North America <sup>(3)</sup>									
Residential mortgages	\$	—	\$ _	\$ -	- \$	—	<b>\$</b> —	\$	\$
Credit cards <sup>(4)</sup>		1	1	_	-	_			—
Personal, small business and other		1		_	-	_	1		
Total	\$	2	\$ 1	\$ -	- \$		\$ 1	\$	\$

(1) The above table reflects activity for loans outstanding as of the end of the reporting period.

(2) Modified residential first mortgages that default are typically liquidated through foreclosure or a similar type of liquidation.

(3) North America includes the U.S., Canada and Puerto Rico. Mexico is included in offices outside North America.

(4) Modified credit card loans that default continue to be charged off in accordance with Citi's consumer charge-off policy.

The following table presents the Company's three and six months ended June 30, 2022 consumer TDRs, under previous GAAP, prior to the Company's adoption of ASU No. 2022-02 on January 1, 2023, that defaulted for which the payment default occurred within one year of a permanent modification. Default is defined as 60 days past due:

	lonths Ended ine 30,	Six Months Ended June 30, 2022	
In millions of dollars	2022		
North America			
Residential first mortgages	\$ 13	\$	17
Home equity loans	2		2
Credit cards	59		116
Personal, small business and other	_		—
Total	\$ 74	\$	135
International			
Residential mortgages	\$ 3	\$	7
Credit cards	3		7
Personal, small business and other	1		2
Total	\$ 7	\$	16

# 14. ALLOWANCE FOR CREDIT LOSSES

	]	Three Months E	nded June 30,	S	ix Months Endec	ded June 30,	
In millions of dollars		2023	2022		2023	2022	
Allowance for credit losses on loans (ACLL) at beginning of period	\$	17,169 \$	15,393	\$	16,974 \$	16,455	
Adjustments to opening balance <sup>(1)</sup>							
Financial instruments—TDRs and vintage disclosures <sup>(1)</sup>	\$	— \$	;	\$	(352) \$	—	
Adjusted ACLL at beginning of period	\$	17,169 \$	15,393	\$	16,622 \$	16,455	
Gross credit losses on loans	\$	(1,879) \$	(1,212)	\$	(3,513) \$	(2,452)	
Gross recoveries on loans		375	362		707	730	
Net credit losses on loans (NCLs)	\$	(1,504) \$	(850)	\$	(2,806) \$	(1,722)	
Replenishment of NCLs	\$	1,504 \$	850	\$	2,806 \$	1,722	
Net reserve builds (releases) for loans		290	520		687	(260)	
Net specific reserve builds (releases) for loans		(33)	14		5	182	
Total provision for credit losses on loans (PCLL)	\$	1,761 \$	1,384	\$	3,498 \$	1,644	
Other, net (see table below)		70	25		182	(425)	
ACLL at end of period	\$	17,496 \$	15,952	\$	17,496 \$	15,952	
Allowance for credit losses on unfunded lending commitments (ACLUC) at beginning of period <sup>(2)</sup>	\$	1,959 \$	2,343	\$	2,151 \$	1,871	
Provision (release) for credit losses on unfunded lending commitments		(96)	(159)		(290)	315	
Other, net		(1)	9		1	7	
ACLUC at end of period <sup>(2)</sup>	\$	1,862 \$	2,193	\$	1,862 \$	2,193	
Total allowance for credit losses on loans, leases and unfunded lendin commitments <sup>(3)</sup>	g \$	19,358 \$	18,145	\$	19,358 \$	18,145	

Other, net details	Three Mo	onths Ende	d June 30,	Six Months Ended June 30				
In millions of dollars	2023		2022	2023		2022		
Reclasses of consumer ACLL to HFS <sup>(4)</sup>	\$	— \$	_	\$	— \$	(350)		
FX translation and other		70	25	1	182	(75)		
Other, net	\$	70 \$	25	<b>\$</b>	182 \$	(425)		

(1) See Note 1 in Citi's First Quarter of 2023 Form 10-Q for a description of the impact of adopting ASU 2022-02 on the ACL.

(2) Represents additional credit loss reserves for unfunded lending commitments and letters of credit recorded in *Other liabilities* on the Consolidated Balance Sheet.
 (3) See below for ACL on *HTM debt securities* and *Other assets*.

(4) See Note 2.

## Allowance for Credit Losses on Loans and End-of-Period Loans

	Three Months Ended										
		Jun	ne 30, 2023								
In millions of dollars	Co	rporate C	onsumer	Total	Corporate	Consumer	Total				
ACLL at beginning of period	\$	2,780 \$	14,389 \$	17,169	\$ 3,025	\$ 12,368 \$	15,393				
Charge-offs		(86)	(1,793)	(1,879)	(57)	(1,155)	(1,212)				
Recoveries		11	364	375	34	328	362				
Replenishment of NCLs		75	1,429	1,504	23	827	850				
Net reserve builds (releases)		(119)	409	290	(128)	648	520				
Net specific reserve builds (releases)		(33)	_	(33)	49	(35)	14				
Other		2	68	70	23	2	25				
Ending balance	\$	2,630 \$	14,866 \$	17,496	\$ 2,969	\$ 12,983 \$	15,952				

	Six Months Ended										
		J	Jun	e 30, 2023							
In millions of dollars	Co	orporate	С	onsumer	Total	Corporate	Consumer	Total			
ACLL at beginning of period	\$	2,855 \$	\$	14,119 \$	16,974	\$ 2,415	\$ 14,040	\$ 16,455			
Adjustments to opening balance:											
Financial instruments—TDRs and vintage disclosures <sup>(1)</sup>		_		(352)	(352)	_	_	_			
Adjusted ACLL at beginning of period	\$	2,855 \$	\$	13,767 \$	16,622	\$ 2,415	\$ 14,040	\$ 16,455			
Charge-offs	\$	(125) \$	\$	(3,388) \$	(3,513)	\$ (105)	\$ (2,347)	\$ (2,452)			
Recoveries		28		679	707	51	679	730			
Replenishment of NCLs		97		2,709	2,806	54	1,668	1,722			
Net reserve builds (releases)		(209)		896	687	249	(509)	(260)			
Net specific reserve builds (releases)		(28)		33	5	273	(91)	182			
Other		12		170	182	32	(457)	(425)			
Ending balance	\$	2,630	\$	14,866 \$	17,496	\$ 2,969	\$ 12,983	\$ 15,952			

		June 30, 2023						December 31, 2022				
In millions of dollars	C	Corporate Consumer			Total	Corporate		Consumer	Total			
ACLL												
Collectively evaluated <sup>(1)</sup>	\$	2,335	\$	14,827	\$	17,162	\$ 2,532	2 \$	13,521 \$	16,053		
Individually evaluated		295		39		334	323	3	596	919		
Purchased credit deteriorated				—		—	_	-	2	2		
Total ACLL	\$	2,630	\$	14,866	\$	17,496	\$ 2,855	5\$	14,119 \$	16,974		
Loans, net of unearned income												
Collectively evaluated <sup>(1)</sup>	\$	279,231	\$	374,201	\$	653,432	\$ 282,909	9 \$	364,795 \$	647,704		
Individually evaluated		1,261		39		1,300	1,122	2	2,921	4,043		
Purchased credit deteriorated				114		114	_	-	114	114		
Held at fair value		5,529		237		5,766	5,123	3	237	5,360		
Total loans, net of unearned income	\$	286,021	\$	374,591	\$	660,612	\$ 289,154	4 \$	368,067 \$	657,221		

(1) See Note 1 in Citi's First Quarter of 2023 Form 10-Q for a description of the effect of adopting ASU 2022-02 on the ACL and for Citi's updated accounting policy for collectively evaluating the ACL for consumer loans formerly considered TDRs.

## 2Q23 Changes in the ACL

The total allowance for credit losses on loans, leases and unfunded lending commitments as of June 30, 2023 was \$19,358 million, a slight increase from \$19,125 million at December 31, 2022. The increase in the ACLL was primarily driven by growth in card balances in Branded cards and Retail services and an increase in transfer risk associated with exposures outside the U.S. driven by safety and soundness considerations under U.S. banking law, partially offset by a decrease in the ACLL of \$352 million from the adoption of ASU 2022-02 for the recognition and measurement of TDRs (see Note 1) and an improved macroeconomic outlook.

## Consumer ACLL

Citi's total consumer allowance for credit losses on loans (ACLL) as of June 30, 2023 was \$14,866 million, an increase from \$14,119 million at December 31, 2022. The increase was primarily driven by growth in U.S. cards balances, partially offset by a decrease to the ACLL of \$352 million from the adoption of ASU 2022-02 for the recognition and measurement of TDRs.

## Corporate ACLL

Citi's total corporate ACLL as of June 30, 2023 was \$2,630 million, a decrease from \$2,855 million at December 31, 2022. The decrease was primarily driven by an improved macroeconomic outlook.

# ACLUC

As of June 30, 2023, Citi's total ACLUC, included in *Other liabilities*, was \$1,862 million, a decrease from \$2,151 million at December 31, 2022. The decrease was primarily driven by an improved macroeconomic outlook.

# Allowance for Credit Losses on HTM Debt Securities

	Three Months Ended June 30, 2023								
In millions of dollars		Mortgage- backed		State and municipal	,	Foreign government	Asset- backed	T	otal HTM
Allowance for credit losses on HTM debt securities at beginning of quarter	\$	2	\$	98	\$	3 \$	1	\$	104
Gross credit losses		_		_		_	—		_
Gross recoveries		_		_					_
Net credit losses (NCLs)	\$	_	\$	_	\$	— \$	_	\$	_
Replenishment of NCLs	\$	_	\$	_	\$	— \$	_	\$	_
Net reserve builds (releases)		3		(6)		(1)	—		(4)
Net specific reserve builds (releases)		_		_					
Total provision for credit losses on HTM debt securities	\$	3	\$	(6)	\$	(1) \$	_	\$	(4)
Other, net	\$		\$		\$	— \$	(1)	\$	(1)
Allowance for credit losses on HTM debt securities at end of quarter	\$	5	\$	92	\$	2 \$		\$	99

	Six Months Ended June 30, 2023									
In millions of dollars		Mortgage- backed		State and municipal	g	Foreign government	Asset- backed	1	otal HTM	
Allowance for credit losses on HTM debt securities at beginning of year	\$	1	\$	113	\$	3 \$	3	\$	120	
Gross credit losses		_		_		_	—		_	
Gross recoveries				_						
Net credit losses (NCLs)	\$	_	\$	_	\$	— \$	_	\$	_	
Replenishment of NCLs	\$	—	\$	_	\$	— \$	_	\$	_	
Net reserve builds (releases)		5		(21)		(1)	(4)		(21)	
Net specific reserve builds (releases)		—		_		_	_		_	
Total provision for credit losses on HTM debt securities	\$	5	\$	(21)	\$	(1) \$	(4)	\$	(21)	
Other, net	\$	(1)	\$	_	\$	— \$	1	\$	—	
Allowance for credit losses on HTM debt securities at end of quarter	\$	5	\$	92	\$	2 \$		\$	99	

Three Months Ended June 30, 2022 Mortgage-backed Asset-backed State and Foreign municipal government Total HTM In millions of dollars Allowance for credit losses on HTM debt securities at beginning of quarter \$ 4 \$ 79 \$ 2 \$ \$ 85 Gross credit losses \_\_\_\_ \_\_\_\_ Gross recoveries \_\_\_\_ \_\_\_\_ Net credit losses (NCLs) \$ — \$ — \$ — \$ \_\_\_\_ \$ \_\_\_\_ \$ - \$ \$ \$ \$ Replenishment of NCLs Net reserve builds (releases) (2) 14 1 7 20 Net specific reserve builds (releases) \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_ \_ 7 Total provision for credit losses on HTM debt securities \$ (2) \$ 14 \$ 1 \$ \$ 20 Allowance for credit losses on HTM debt securities \$ 7 at end of quarter 2 \$ 93 \$ 3 \$ \$ 105

	Six Months Ended June 30, 2022								
In millions of dollars		Mortgage- backed	State and municipal		Foreign government	Asset- backed	To	tal HTM	
Allowance for credit losses on HTM debt securities at beginning of year	\$	6\$	75	\$	4 \$	2	\$	87	
Gross credit losses		—			—	—		_	
Gross recoveries					_	—		—	
Net credit losses (NCLs)	\$	— \$		\$	— \$	_	\$	_	
Replenishment of NCLs	\$	— \$		\$	— \$	—	\$		
Net reserve builds		(4)	18		(1)	5		18	
Net specific reserve builds (releases)		_			—	_		—	
Total provision for credit losses on HTM debt securities	\$	(4) \$	18	\$	(1) \$	5	\$	18	
Allowance for credit losses on HTM debt securities at end of quarter	\$	2 \$	93	\$	3 \$	7	\$	105	

## Allowance for Credit Losses on Other Assets

			Thr	ee Months Ended Ju	ine 3	30, 2023		
In millions of dollars	,	Deposits vith bank	~	ecurities borrowed and purchased under agreements to resell		ll other ssets <sup>(1)</sup>	,	Total
Allowance for credit losses on other assets at beginning of quarter	\$	13	5\$	30	\$	363	\$	528
Gross credit losses		_	_	_		(24)		(24)
Gross recoveries		_	_	_		5		5
Net credit losses (NCLs)	\$	_	- \$	—	\$	(19)	\$	(19)
Replenishment of NCLs	\$	-	- \$	—	\$	19	\$	19
Net reserve builds (releases)		(11	4)	—		244		130
Total provision for credit losses	\$	(11	4) \$	—	\$	263	\$	149
Other, net	\$	_	- \$	(4)	)\$	5	\$	1
Allowance for credit losses on other assets at end of quarter	\$	2	1\$	26	\$	612	\$	659

	 Si	x Months Ended Jun	e 30, 2023	
In millions of dollars	posits 1 banks	Securities borrowed and purchased under agreements to resell	All other assets <sup>(1)</sup>	Total
Allowance for credit losses on other assets at beginning of year	\$ 51 \$	36	\$ 36	\$ 123
Gross credit losses	_	—	(35)	(35)
Gross recoveries	_	—	5	5
Net credit losses (NCLs)	\$ — \$		\$ (30)	\$ (30)
Replenishment of NCLs	\$ — \$		\$ 30	\$ 30
Net reserve builds (releases)	(29)	(3)	576	544
Total provision for credit losses	\$ (29) \$	(3)	\$ 606	\$ 574
Other, net	\$ (1) \$	5 (7)	<b>\$</b> —	\$ (8)
Allowance for credit losses on other assets at end of quarter	\$ 21 \$	26	\$ 612	\$ 659

(1) Primarily an increase related to transfer risk associated with exposures outside of the U.S. driven by safety and soundness considerations under U.S. banking law.

Three Months Ended June 30, 2022

In millions of dollars	posits banks	Securities borrower and purchased under agreements to resell	er E	Brokerage eceivables	All other assets <sup>(1)</sup>	Total
Allowance for credit losses on other assets at beginning of quarter	\$ 15	\$	4 \$	— \$	24	\$ 43
Gross credit losses		-	_	_	(8)	(8)
Gross recoveries		-	_	_	2	2
Net credit losses (NCLs)	\$ —	\$ –	- \$	— \$	(6)	\$ (6)
Replenishment of NCLs	\$ —	\$ –	- \$	— \$	6	\$ 6
Net reserve builds (releases)	2	(	8)	_	7	1
Total provision for credit losses	\$ 2	\$ (	8) \$	— \$	13	\$ 7
Other, net	\$ —	\$ 3	1 \$	— \$	(1)	\$ 30
Allowance for credit losses on other assets at end of quarter	\$ 17	\$ 2	7 \$	— \$	30	\$ 74

	Six Months Ended June 30, 2022									
In millions of dollars		and	urities borrowed purchased under agreements to resell	Brokerage receivables	All other assets <sup>(1)</sup>	Total				
Allowance for credit losses on other assets at beginning of year	\$	21 \$	6	\$	\$ 26	\$ 53				
Gross credit losses		—		_	(15)	(15)				
Gross recoveries		—		_	2	2				
Net credit losses (NCLs)	\$	— \$	—	\$ —	\$ (13)	\$ (13)				
Replenishment of NCLs	\$	— \$	— :	\$ —	\$ 13	\$ 13				
Net reserve builds (releases)		(4)	(10)	_	4	(10)				
Total provision for credit losses	\$	(4) \$	(10)	\$ —	\$ 17	\$ 3				
Other, net	\$	— \$	31	\$ —	\$ —	\$ 31				
Allowance for credit losses on other assets at end of quarter	\$	17 \$	27	\$ _	\$ 30	\$ 74				

(1) Primarily accounts receivable.

For ACL on AFS debt securities, see Note 12.

## 15. GOODWILL AND INTANGIBLE ASSETS

### Goodwill

The changes in Goodwill were as follows:

In millions of dollars	-	nstitutional lients Group	Р	ersonal Banking and Wealth Management	Legacy Franchises	Total
Balance at December 31, 2022	\$	8,986	\$	9,741	\$ 964	\$ 19,691
Foreign currency translation		42		69	80	191
Balance at March 31, 2023	\$	9,028	\$	9,810	\$ 1,044	\$ 19,882
Foreign currency translation		13		48	55	116
Balance at June 30, 2023	\$	9,041	\$	9,858	\$ 1,099	\$ 19,998

Citi tests goodwill impairment annually as of October 1 (the annual test) and conducts interim assessments between the annual test if an event occurs or circumstances change that would more-likely-than-not reduce the fair value of a reporting unit below its carrying amount. No such events or circumstances were identified as part of the qualitative assessment performed as of June 30, 2023. For additional information regarding Citi's goodwill impairment testing process, see Notes 1 and 16 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

While the inherent risk related to uncertainty is embedded in the key assumptions used in the valuations of the reporting units, the economic and business environments continue to evolve as Citi's management implements its strategic refresh. If management's future estimates of key economic and market assumptions were to differ from its current assumptions, Citi could potentially experience material goodwill impairment charges in the future.

### **Intangible Assets**

The components of intangible assets were as follows:

		Ju	ne 30, 2023		Γ	Dece	ember 31, 2022	
In millions of dollars	Gross carrying amount		ccumulated nortization	Net carrying amount	Gross carrying amount		ccumulated mortization	Net carrying amount
Purchased credit card relationships <sup>(1)</sup>	\$ 5,302	\$	4,290	\$ 1,012	\$ 5,513	\$	4,426 \$	1,087
Credit card contract-related intangibles <sup>(2)</sup>	4,193		1,612	2,581	3,903		1,518	2,385
Other customer relationships	355		271	84	373		283	90
Present value of future profits	37		36	1	32		31	1
Indefinite-lived intangible assets	217		—	217	192		_	192
Other	_			_	65		57	8
Intangible assets (excluding MSRs)	\$ 10,104	\$	6,209	\$ 3,895	\$ 10,078	\$	6,315 \$	3,763
Mortgage servicing rights (MSRs) <sup>(3)</sup>	681		_	681	665		—	665
Total intangible assets	\$ 10,785	\$	6,209	\$ 4,576	\$ 10,743	\$	6,315 \$	4,428

The changes in intangible assets were as follows:

In millions of dollars	aı	t carrying mount at cember 31, 2022	I	cquisitions/ renewals/ ivestitures	Amor	tization I	mpairments	FX translation and other	a	t carrying mount at ne 30, 2023
Purchased credit card relationships <sup>(1)</sup>	\$	1,087	\$		\$	(75) \$		\$	\$	1,012
Credit card contract-related intangibles <sup>(2)</sup>		2,385		290		(94)		—		2,581
Other customer relationships		90		11		(12)		(5)		84
Present value of future profits		1		—		—		—		1
Indefinite-lived intangible assets		192		_		—		25		217
Other		8		—		(8)		—		_
Intangible assets (excluding MSRs)	\$	3,763	\$	301	\$	(189) \$	_	\$ 20	\$	3,895
Mortgage servicing rights (MSRs) <sup>(3)</sup>		665								681
Total intangible assets	\$	4,428							\$	4,576

(1) Reflects intangibles for the value of purchased cardholder relationships, which are discrete from contract-related intangibles.

- (2) Reflects contract-related intangibles associated with the extension or renewal of existing credit card program agreements with card partners. For the credit card program agreement extended during 2023, the remaining term is over 10 years.
- (3) See Note 20 for additional information on Citi's MSRs, including the rollforward for the three months ended June 30, 2023.

## **16. DEPOSITS**

Deposits consisted of the following:

In millions of dollars	June 30, 2023 <sup>(1)</sup>	mber 31, 2022
Non-interest-bearing deposits in U.S. offices	\$ 109,844	\$ 122,655
Interest-bearing deposits in U.S. offices (including \$998 and \$903 as of June 30, 2023 and December 31, 2022, respectively, at fair value)	590,700	607,470
Non-interest-bearing deposits in offices outside the U.S.	91,899	95,182
Interest-bearing deposits in offices outside the U.S. (including \$1,600 and \$972 as of June 30, 2023 and December 31, 2022, respectively, at fair value)	527,424	540,647
Total deposits	\$ 1,319,867	\$ 1,365,954

(1) For information on time deposits that met or exceeded the insured limit at December 31, 2022, see Note 17 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

For additional information on Citi's deposits, see Citi's 2022 Form 10-K.

### **17. DEBT**

For additional information regarding Citi's short-term borrowings and long-term debt, see Note 18 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

#### **Short-Term Borrowings**

In millions of dollars	June 30, 2023	December 31 2022			
Commercial paper					
Bank <sup>(1)</sup>	\$ 11,108	\$	11,185		
Broker-dealer and other <sup>(2)</sup>	9,814		14,345		
Total commercial paper	\$ 20,922	\$	25,530		
Other borrowings <sup>(3)</sup>	19,508		21,566		
Total	\$ 40,430	\$	47,096		

(1) Represents Citibank entities as well as other bank entities.

(2) Represents broker-dealer and other non-bank subsidiaries that are consolidated into Citigroup Inc., the parent holding company.

(3) Includes borrowings from Federal Home Loan Banks and other market participants. At June 30, 2023 and December 31, 2022, collateralized short-term advances from Federal Home Loan Banks were \$10.0 billion and \$12.0 billion, respectively.

## Long-Term Debt

In millions of dollars	June 30, 2023	D	ecember 31, 2022
Citigroup Inc. <sup>(1)</sup>	\$ 163,043	\$	166,257
Bank <sup>(2)</sup>	19,101		21,113
Broker-dealer and other <sup>(3)</sup>	92,366		84,236
Total	\$ 274,510	\$	271,606

(1) Represents the parent holding company.

(2) Represents Citibank entities as well as other bank entities. At June 30, 2023 and December 31, 2022, collateralized long-term advances from the Federal Home Loan Banks were \$7.5 billion and \$7.3 billion, respectively.

(3) Represents broker-dealer and other non-bank subsidiaries that are consolidated into Citigroup Inc., the parent holding company. Certain Citigroup consolidated hedging activities are also included in this line.

*Long-term debt* outstanding includes trust preferred securities with a balance sheet carrying value of \$1.6 billion at June 30, 2023 and December 31, 2022.

The following table summarizes Citi's outstanding trust preferred securities at June 30, 2023:

						Ju	nior subo	rdinated debentu	res owned by trust
Trust	Issuance date	Securities issued	quidation value <sup>(1)</sup>	Coupon rate <sup>(2)</sup>	Common shares issued to parent		otional mount	Maturity	Redeemable by issuer beginning
In millions of dollars, except s	ecurities and sh	are amounts							
Citigroup Capital III	Dec. 1996	194,053	\$ 194	7.625 %	6,003	\$	200	Dec. 1, 2036	Not redeemable
Citigroup Capital XIII	Oct. 2010	89,840,000	2,246	3 mo. LIBOR <sup>(3)</sup> + 637 bps	1,000		2,246	Oct. 30, 2040	Oct. 30, 2015
Total obligated			\$ 2,440			\$	2,446		

Note: Distributions on the trust preferred securities and interest on the subordinated debentures are payable semiannually for Citigroup Capital III and quarterly for Citigroup Capital XIII.

(1) Represents the notional value received by outside investors from the trusts at the time of issuance. This differs from Citi's balance sheet carrying value due primarily to unamortized discount and issuance costs.

(2) In each case, the coupon rate on the subordinated debentures is the same as that on the trust preferred securities.

(3) The coupon rate will transition to 3-month term SOFR +26.161 bps +637 bps at the start of the next distribution period.

# 18. CHANGES IN ACCUMULATED OTHER COMPREHENSIVE INCOME (LOSS) (AOCI)

Changes in each component of Citigroup's Accumulated other comprehensive income (loss) were as follows:

In millions of dollars	gain 01	Net realized s (losses) n debt curities	Debt valuation adjustment (DVA) <sup>(1)</sup>		Benefit plans <sup>(3)</sup>	CTA of he	A, net dges <sup>(4)</sup>	Excluded component of fair value hedges	Long- duration insurance contracts <sup>(5)</sup>	co	Accumulated other omprehensive ncome (loss)
Three Months Ended June 30, 2023											
Balance, March 31, 2023	\$	(5,162)	\$ 517	\$ (2,161) \$	(5,859)	\$ (.	32,796)	\$ (12)	\$ 32	\$	(45,441)
Other comprehensive income before reclassifications		133	(613)	(206)	(170)		23	27	(6)		(812)
Increase (decrease) due to amounts reclassified from <i>AOCI</i>		(7)	(6)	377	34		_	(10)	_		388
Change, net of taxes	\$	126	\$ (619)	\$ 171 \$	(136)	\$	23	<b>\$</b> 17	\$ (6)	\$	(424)
Balance at June 30, 2023	\$	(5,036)	\$ (102)	\$ (1,990) \$	(5,995)	\$ (.	32,773)	\$ 5	\$ 26	\$	(45,865)
Six Months Ended June 30, 2023											
Balance, December 31, 2022	\$	(5,998)	\$ 842	\$ (2,522) \$	(5,755)	\$ (.	33,637)	\$ 8	\$	\$	(47,062)
Adjustment to opening balance, net of taxes <sup>(6)</sup>		_	_	_	_		_	_	27		27
Adjusted balance, beginning of period	\$	(5,998)	\$ 842	\$ (2,522) \$	(5,755)	\$ (.	33,637)	\$ 8	\$ 27	\$	(47,035)
Other comprehensive income before reclassifications		988	(940)	(200)	(302)		864	11	(1)		420
Increase (decrease) due to amounts reclassified from <i>AOCI</i>		(26)	(4)	732	62		_	(14)	_		750
Change, net of taxes	\$	962	\$ (944)	\$ 532 \$	(240)	\$	864	\$ (3)	\$ (1)	\$	1,170
Balance at June 30, 2023	\$	(5,036)	\$ (102)	\$ (1,990) \$	(5,995)	\$ (.	32,773)	\$ 5	\$ 26	\$	(45,865)

In millions of dollars	gain o	Net realized s (losses) n debt curities	Debt valuation adjustment (DVA) <sup>(1)</sup>			Benefit plans <sup>(3)</sup>	CTA, net of hedges <sup>(4)</sup>	Excluded component of fair value hedges	Long- duration insurance contracts	с	Accumulated other omprehensive income (loss)
Three Months Ended June 30, 2022											
Balance, March 31, 2022	\$	(4,891) \$	\$ (394)	)\$	(1,440) \$	(5,681) \$	\$ (31,180)	\$ 1	\$	\$	(43,585)
Other comprehensive income before reclassifications		(1,612)	1,968		(515)	(271)	(1,975)	4	_		(2,401)
Increase (decrease) due to amounts reclassified from <i>AOCI</i>		111	(1)	)	(151)	182	345	5			491
Change, net of taxes	\$	(1,501) \$	\$ 1,967	\$	(666) \$	(89) 5	\$ (1,630)	\$9	\$ —	\$	(1,910)
Balance at June 30, 2022	\$	(6,392) \$	\$ 1,573	\$	(2,106) \$	(5,770) \$	\$ (32,810)	\$ 10	\$ —	\$	(45,495)
Six Months Ended June 30, 2022											
Balance, December 31, 2021	\$	(614) \$	\$ (1,187)	)\$	101 \$	(5,852) \$	\$ (31,166)	\$ (47)	)\$ —	\$	(38,765)
Other comprehensive income before reclassifications		(5,895)	2,761		(1,839)	21	(1,989)	50	_		(6,891)
Increase (decrease) due to amounts reclassified from <i>AOCI</i>		117	(1)	)	(368)	61	345	7			161
Change, net of taxes	\$	(5,778) \$	\$ 2,760	\$	(2,207) \$	82 5	\$ (1,644)	\$ 57	\$ —	\$	(6,730)
Balance at June 30, 2022	\$	(6,392) \$	\$ 1,573	\$	(2,106) \$	(5,770) \$	\$ (32,810)	\$ 10	\$ _	\$	(45,495)

(1) Reflects the after-tax valuation of Citi's fair value option liabilities. See "Market Valuation Adjustments" in Note 22.

(2) Primarily driven by Citi's pay floating/receive fixed interest rate swap programs that hedge certain floating rates on assets.

(3) Primarily reflects adjustments based on the quarterly actuarial valuations of the Company's significant pension and postretirement plans, annual actuarial valuations of all other plans and amortization of amounts previously recognized in other comprehensive income.

- (4) Primarily reflects the movements in (by order of impact) the Mexican peso, Brazilian real, Russian ruble and Japanese yen against the U.S. dollar and changes in related tax effects and hedges for the three months ended June 30, 2023. Primarily reflects the movements in (by order of impact) the Mexican peso, Brazilian real, Polish zloty, Chilean peso, Euro, Russian ruble, Japanese yen and South Korean won against the U.S. dollar and changes in related tax effects and hedges for the six months ended June 30, 2023. Primarily reflects the movements in (by order of impact) the South Korean won, Euro, Chilean peso, Mexican peso, Japanese yen and Brazilian real against the U.S. dollar and changes in related tax effects and hedges for the three months ended June 30, 2022. Primarily reflects the movements in (by order of impact) the South Korean won, Euro, Japanese yen, Indian rupee, British pound sterling and Chilean peso against the U.S. dollar and changes in related tax effects and hedges for the six months ended June 30, 2022. Amounts recorded in the CTA component of *AOCI* remain in *AOCI* until the sale or substantial liquidation of the foreign entity, at which point such amounts related to the foreign entity are reclassified into earnings.
- (5) Reflects the change in the liability for future policyholder benefits for certain long-duration life-contingent annuity contracts that are issued by a regulated Citi insurance subsidiary in Mexico and reported within *Legacy Franchises*. The amount reflects the change in the liability after discounting using an upper-medium grade fixed income instrument yield that reflects the duration characteristics of the liability. As of June 30, 2023, the balance of the liability for future policyholder benefits, which is recorded within *Other Liabilities*, for this insurance subsidiary was approximately \$560 million.

(6) See Note 1.

The pretax and after-tax changes in each component of Accumulated other comprehensive income (loss) were as follows:

In millions of dollars	Pretax	Tax effect <sup>(1)</sup>	A	fter-tax
Three Months Ended June 30, 2023				
Balance, March 31, 2023	\$ (53,443) \$	8,002	\$	(45,441)
Change in net unrealized gains (losses) on debt securities	210	(84)		126
Debt valuation adjustment (DVA)	(837)	218		(619)
Cash flow hedges	233	(62)		171
Benefit plans	(156)	20		(136)
Foreign currency translation adjustment (CTA)	15	8		23
Excluded component of fair value hedges	22	(5)		17
Long-duration insurance contracts	(8)	2		(6)
Change	\$ (521) \$	97	\$	(424)
Balance at June 30, 2023	\$ (53,964) \$	8,099	\$	(45,865)
Six Months Ended June 30, 2023				
Balance, December 31, 2022	\$ (55,253) \$	8,191	\$	(47,062)
Adjustment to opening balance <sup>(2)</sup>	39	(12)		27
Adjusted balance, beginning of period	\$ (55,214) \$	8,179	\$	(47,035)
Change in net unrealized gains (losses) on debt securities	1,323	(361)		962
DVA	(1,270)	326		(944)
Cash flow hedges	712	(180)		532
Benefit plans	(312)	72		(240)
СТА	803	61		864
Excluded component of fair value hedges	(4)	1		(3)
Long-duration insurance contracts	(2)	1		(1)
Change	\$ 1,250 \$	(80)	\$	1,170
Balance at June 30, 2023	\$ (53,964) \$	8,099	\$	(45,865)

In millions of dollars	Pretax	Tax effect <sup>(1)</sup>	A	After-tax
Three Months Ended June 30, 2022				
Balance, March 31, 2022	\$ (51,807) \$	8,222	\$	(43,585)
Change in net unrealized gains (losses) on debt securities	(1,990)	489		(1,501)
DVA	2,592	(625)		1,967
Cash flow hedges	(886)	220		(666)
Benefit plans	(73)	(16)		(89)
СТА	(1,414)	(216)		(1,630)
Excluded component of fair value hedges	12	(3)		9
Long-duration insurance contracts				—
Change	\$ (1,759) \$	(151)	\$	(1,910)
Balance, June 30, 2022	\$ (53,566) \$	8,071	\$	(45,495)
Six Months Ended June 30, 2022				
Balance, December 31, 2021	\$ (45,383) \$	6,618	\$	(38,765)
Change in net unrealized gains (losses) on debt securities	(7,614)	1,836		(5,778)
DVA	3,642	(882)		2,760
Cash flow hedges	(2,908)	701		(2,207)
Benefit plans	104	(22)		82
СТА	(1,483)	(161)		(1,644)
Excluded component of fair value hedges	76	(19)		57
Long-duration insurance contracts				_
Change	\$ (8,183) \$	1,453	\$	(6,730)
Balance, June 30, 2022	\$ (53,566) \$	8,071	\$	(45,495)

Income tax effects of these items are released from *AOCI* contemporaneously with the related gross pretax amount.
 See Note 1.

The Company recognized pretax (gains) losses related to amounts in AOCI reclassified to the Consolidated Statement of Income as follows:

		ncrease (decrease amounts ree Consolidated Stat	class	sified to			
	Three Months End	led June 30,		Six Months Endeo	nths Ended June 30,		
In millions of dollars	2023	2022		2023	2022		
Realized (gains) losses on sales of investments	\$ (49) \$	58	\$	(121) \$	(22)		
Gross impairment losses	43	90		94	180		
Subtotal, pretax	\$ (6) \$	148	\$	(27) \$	158		
Tax effect	(1)	(37)		1	(41)		
Net realized (gains) losses on investments, after-tax <sup>(1)</sup>	\$ (7) \$	111	\$	(26) \$	117		
Realized DVA (gains) losses on fair value option liabilities, pretax	\$ (7) \$	(1)	\$	(4) \$	(1)		
Tax effect	1	—		—			
Net realized DVA, after-tax	\$ (6) \$	(1)	\$	(4) \$	(1)		
Interest rate contracts	\$ <b>495</b> \$	(199)	\$	964 \$	(485)		
Foreign exchange contracts	1	1		2	2		
Subtotal, pretax	\$ 496 \$	(198)	\$	966 \$	(483)		
Tax effect	(119)	47		(234)	115		
Amortization of cash flow hedges, after-tax <sup>(2)</sup>	\$ 377 \$	(151)	\$	732 \$	(368)		
Amortization of unrecognized:							
Prior service cost (benefit)	\$ (5) \$	(5)	\$	(11) \$	(11)		
Net actuarial loss	51	58		100	128		
Curtailment/settlement impact <sup>(3)</sup>	1	183		(4)	(33)		
Subtotal, pretax	\$ 47 \$	236	\$	<b>85</b> \$	84		
Tax effect	(13)	(54)		(23)	(23)		
Amortization of benefit plans, after-tax <sup>(3)</sup>	\$ 34 \$	182	\$	<b>62</b> \$	61		
Excluded component of fair value hedges, pretax	\$ (13) \$	7	\$	(19) \$	10		
Tax effect	3	(2)		5	(3)		
Excluded component of fair value hedges, after-tax	\$ (10) \$	5	\$	(14) \$	7		
Long-duration insurance contracts, pretax	\$ — \$	—	\$	— \$	_		
Tax effect	—	—		—			
Long-duration insurance contracts, after-tax	\$ — \$	—	\$	— \$			
CTA, pretax	\$ — \$	397	\$	— \$	397		
Tax effect	—	(52)		—	(52)		
CTA, after-tax <sup>(4)</sup>	\$ — \$	345	\$	— \$	345		
Total amounts reclassified out of AOCI, pretax	\$ 517 \$	589	\$	1,001 \$	165		
Total tax effect	(129)	(98)		(251)	(4)		
Total amounts reclassified out of AOCI, after-tax	\$ 388 \$	491	\$	750 \$	161		

(1) The pretax amount is reclassified to *Realized gains (losses) on sales of investments, net* and *Gross impairment losses* in the Consolidated Statement of Income. See Note 12 for additional details.

(2) See Note 21 for additional details.

(3) See Note 8 for additional details.

(4) The pretax amount is reclassified to *Discontinued operations* and *Other revenue* in the Consolidated Statement of Income, and results from the substantial liquidation of a legacy U.K. consumer operation. See Note 2 for additional details.

#### **19. PREFERRED STOCK**

The following table summarizes the Company's preferred stock outstanding:

							ing value ns of dollars)
	Issuance date	Redeemable by issuer beginning	Dividend rate	Redemption price per depositary share/preference share	Number of depositary shares	June 30, 2023	December 31, 2022
Series A <sup>(1)</sup>	October 29, 2012	January 30, 2023	3-month LIBOR+ 4.068%	\$ 1,000	1,500,000	\$ 1,500	\$ 1,500
Series B <sup>(2)</sup>	December 13, 2012	February 15, 2023	3-month LIBOR+ 4.230%	1,000	750,000	750	750
Series D <sup>(3)</sup>	April 30, 2013	May 15, 2023	3-month LIBOR+ 3.466%	1,000	1,250,000	1,250	1,250
Series J <sup>(4)</sup>	September 19, 2013	September 30, 2023	7.125	25	38,000,000	950	950
Series K <sup>(5)</sup>	October 31, 2013	November 15, 2023	6.875	25	59,800,000	1,495	1,495
Series M <sup>(6)</sup>	April 30, 2014	May 15, 2024	6.300	1,000	1,750,000	1,750	1,750
Series P <sup>(7)</sup>	April 24, 2015	May 15, 2025	5.950	1,000	2,000,000	2,000	2,000
Series T <sup>(8)</sup>	April 25, 2016	August 15, 2026	6.250	1,000	1,500,000	1,500	1,500
Series U <sup>(9)</sup>	September 12, 2019	September 12, 2024	5.000	1,000	1,500,000	1,500	1,500
Series V <sup>(10)</sup>	January 23, 2020	January 30, 2025	4.700	1,000	1,500,000	1,500	1,500
Series W <sup>(11)</sup>	December 10, 2020	December 10, 2025	4.000	1,000	1,500,000	1,500	1,500
Series X <sup>(12)</sup>	February 18, 2021	February 18, 2026	3.875	1,000	2,300,000	2,300	2,300
Series Y <sup>(13)</sup>	October 27, 2021	November 15, 2026	4.150	1,000	1,000,000	1,000	1,000
Series Z <sup>(14)</sup>	March 7, 2023	May 15, 2028	7.375	1,000	1,250,000	1,250	
						\$ 20,245	\$ 18,995

(1) Issued as depositary shares, each representing a 1/25<sup>th</sup> interest in a share of the corresponding series of non-cumulative perpetual preferred stock. Beginning in the second quarter of 2023, dividends are payable quarterly on January 30, April 30, July 30 and October 30 at a floating rate, in each case when, as and if declared by the Citi Board of Directors. The dividend rate will transition to 3-month term SOFR plus 0.26161% + 4.068% at the start of the next dividend period.

(2) Issued as depositary shares, each representing a 1/25<sup>th</sup> interest in a share of the corresponding series of non-cumulative perpetual preferred stock. Beginning in the second quarter of 2023, dividends are payable quarterly on February 15, May 15, August 15 and November 15 at a floating rate, in each case when, as and if declared by the Citi Board of Directors. As previously announced, Citi will be redeeming Series B in its entirety on August 15, 2023.

- (3) Issued as depositary shares, each representing a 1/25<sup>th</sup> interest in a share of the corresponding series of non-cumulative perpetual preferred stock. Dividends are payable semiannually on May 15 and November 15 at a fixed rate until, but excluding, May 15, 2023, thereafter payable quarterly on February 15, May 15, August 15 and November 15 at a floating rate, in each case when, as and if declared by the Citi Board of Directors. Beginning in the third quarter of 2023, dividends are payable quarterly on February 15, May 15, August 15 and November 15 at a floating rate, in each case when, as and if declared by the Citi Board of Directors. Beginning in the third quarter of 2023, dividends are payable quarterly on February 15, May 15, August 15 and November 15 at a floating rate, in each case when, as and if declared by the Citi Board of Directors. The dividend rate will transition to 3-month term SOFR plus 0.26161% + 3.466% at the start of the next dividend period.
- (4) Issued as depositary shares, each representing a 1/1,000<sup>th</sup> interest in a share of the corresponding series of non-cumulative perpetual preferred stock. Dividends are payable quarterly on March 30, June 30, September 30 and December 30 at a fixed rate until, but excluding, September 30, 2023, thereafter payable quarterly on the same dates at a floating rate, in each case when, as and if declared by the Citi Board of Directors. Beginning in the fourth quarter of 2023, dividends are payable quarterly on March 30, June 30, September 30 and December 30 at a floating rate, in each case when, as and if declared by the Citi Board of Directors. Beginning in the fourth quarter of 2023, dividends are payable quarterly on March 30, June 30, September 30 and December 30 at a floating rate, in each case when, as and if declared by the Citi Board of Directors. The dividend rate will transition to 3-month term SOFR plus 0.26161% + 4.040% at the start of the next dividend period.
- (5) Issued as depositary shares, each representing a 1/1,000<sup>th</sup> interest in a share of the corresponding series of non-cumulative perpetual preferred stock. Dividends are payable quarterly on February 15, May 15, August 15 and November 15 at a fixed rate until, but excluding, November 15, 2023, thereafter payable quarterly on the same dates at a floating rate, in each case when, as and if declared by the Citi Board of Directors.
- (6) Issued as depositary shares, each representing a 1/25<sup>th</sup> interest in a share of the corresponding series of non-cumulative perpetual preferred stock. Dividends are payable semiannually on May 15 and November 15 at a fixed rate until, but excluding, May 15, 2024, thereafter payable quarterly on February 15, May 15, August 15 and November 15 at a floating rate, in each case when, as and if declared by the Citi Board of Directors.
- (7) Issued as depositary shares, each representing a 1/25<sup>th</sup> interest in a share of the corresponding series of non-cumulative perpetual preferred stock. Dividends are payable semiannually on May 15 and November 15 at a fixed rate until, but excluding, May 15, 2025, and thereafter payable quarterly on February 15, May 15, August 15 and November 15 at a floating rate, in each case when, as and if declared by the Citi Board of Directors.
- (8) Issued as depositary shares, each representing a 1/25<sup>th</sup> interest in a share of the corresponding series of non-cumulative perpetual preferred stock. Dividends are payable semiannually on February 15 and August 15 at a fixed rate until, but excluding, August 15, 2026, thereafter payable quarterly on February 15, May 15, August 15 and November 15 at a floating rate, in each case when, as and if declared by the Citi Board of Directors.
- (9) Issued as depositary shares, each representing a 1/25<sup>th</sup> interest in a share of the corresponding series of non-cumulative perpetual preferred stock. Dividends are payable semiannually on March 12 and September 12 at a fixed rate until, but excluding, September 12, 2024, thereafter payable quarterly on March 12, June 12, September 12 and December 12 at a floating rate, in each case when, as and if declared by the Citi Board of Directors.
- (10) Issued as depositary shares, each representing a 1/25<sup>th</sup> interest in a share of the corresponding series of non-cumulative perpetual preferred stock. Dividends are payable semiannually on January 30 and July 30 at a fixed rate until, but excluding, January 30, 2025, thereafter payable quarterly on January 30, April 30, July 30 and October 30 at a floating rate, in each case when, as and if declared by the Citi Board of Directors.

- (11) Issued as depositary shares, each representing a 1/25<sup>th</sup> interest in a share of the corresponding series of non-cumulative perpetual preferred stock. Dividends are payable quarterly on March 10, June 10, September 10 and December 10 at a fixed rate until, but excluding, December 10, 2025, thereafter payable quarterly on the same dates at a floating rate, in each case when, as and if declared by the Citi Board of Directors.
- (12) Issued as depositary shares, each representing a 1/25<sup>th</sup> interest in a share of the corresponding series of non-cumulative perpetual preferred stock. Dividends are payable quarterly on February 18, May 18, August 18 and November 18 at a fixed rate until, but excluding, February 18, 2026, thereafter payable quarterly on the same dates at a floating rate, in each case when, as and if declared by the Citi Board of Directors.
- (13) Issued as depositary shares, each representing a 1/25<sup>th</sup> interest in a share of the corresponding series of non-cumulative perpetual preferred stock. Dividends are payable quarterly on February 15, May 15, August 15 and November 15 at a fixed rate until, but excluding, November 15, 2026, thereafter payable quarterly on the same dates at a floating rate, in each case when, as and if declared by the Citi Board of Directors.
- (14) Issued as depositary shares, each representing a 1/25<sup>th</sup> interest in a share of the corresponding series of non-cumulative perpetual preferred stock. Dividends are payable quarterly on February 15, May 15, August 15 and November 15 at a fixed rate until, but excluding, May 15, 2028, thereafter payable quarterly on the same dates at a floating rate, in each case when, as and if declared by the Citi Board of Directors.

## 20. SECURITIZATIONS AND VARIABLE INTEREST ENTITIES

For additional information regarding Citi's use of special purpose entities (SPEs) and variable interest entities (VIEs), see Note 23 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

Citigroup's involvement with consolidated and unconsolidated VIEs with which the Company holds significant variable interests or has continuing involvement through servicing a majority of the assets in a VIE is presented below:

	As of June 30, 2023													
							N	laximum e	xposure to lo	ss i	n significant u	unconsolidate	ed V	IEs <sup>(1)</sup>
								Funded ex	xposures <sup>(2)</sup>		Unfunded e	exposures		
In millions of dollars		Total volvement vith SPE assets	VIE/SPE unconsolidated		in	Debt Equity nvestments investments			Funding ommitments	Guarantees and derivatives	Guarantees and			
Credit card securitizations	\$	31,666	\$	31,666	\$	_	\$	_	s —	\$	_	s —	\$	—
Mortgage securitizations <sup>(4)</sup>										1				
U.S. agency-sponsored		125,515				125,515		2,093		1	—	138		2,231
Non-agency-sponsored		66,721		—		66,721		3,191	—	1	—	—		3,191
Citi-administered asset- backed commercial paper conduits		18,600		18,600		_		_	_		_	_		_
Collateralized loan obligations (CLOs)		5,916		_		5,916		2,525	_					2,525
Asset-based financing <sup>(5)</sup>		180,279		10,931		169,348		39,875	955	1	11,636	—	5	2,466
Municipal securities tender option bond trusts (TOBs)		1,527		596		931		16	_		681	_		697
Municipal investments		21,653		3		21,650		2,463	3,031	1	2,941			8,435
Client intermediation		487		97		390		75		ł		—		75
Investment funds		490		103		387		4	7	ł	78	1		90
Total	\$	452,854	\$	61,996	\$	390,858	\$	50,242	\$ 3,993	\$	15,336	<b>\$ 139</b>	\$6	9,710

			As	s of December	31, 2022				
				Maximum	exposure to los	ss in significant	unconsolidated	l VIEs <sup>(1)</sup>	
					xposures <sup>(2)</sup>		ed exposures		
In millions of dollars	Total involvement with SPE assets	Consolidated VIE/SPE assets	Significant unconsolidated VIE assets <sup>(3)</sup>	Debt investments	Equity investments	Funding commitments	Guarantees and derivatives	Total	
Credit card securitizations	\$ 32,021	\$ 32,021	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	
Mortgage securitizations <sup>(4)</sup>									
U.S. agency-sponsored	117,358		117,358	2,052	—	—	48	2,100	
Non-agency-sponsored	67,704		67,704	3,294			—	3,294	
Citi-administered asset- backed commercial paper conduits	19,621	19,621	_	_		_	_		
Collateralized loan obligations (CLOs)	7,600	_	7,600	2,601		_		2,601	
Asset-based financing <sup>(5)</sup>	242,348	9,672	232,676	40,121	1,022	10,726	—	51,869	
Municipal securities tender option bond trusts (TOBs)	2,155	672	1,483	2		1,108		1,110	
Municipal investments	22,167	3	22,164	2,731	3,143	3,420	—	9,294	
Client intermediation	482	121	361	58	—		13	71	
Investment funds	534	91	443	2	5	68	—	75	
Other		_				—	_	_	
Total	\$ 511,990	\$ 62,201	\$ 449,789	\$ 50,861	\$ 4,170	\$ 15,322	\$ 61	\$ 70,414	

(1) The definition of maximum exposure to loss is included in the text that follows this table.

(2) Included on Citigroup's June 30, 2023 and December 31, 2022 Consolidated Balance Sheet.

(3) A significant unconsolidated VIE is an entity in which the Company has any variable interest or continuing involvement considered to be significant, regardless of the likelihood of loss.

(4) Citigroup mortgage securitizations also include agency and non-agency (private label) re-securitization activities. These SPEs are not consolidated.

(5) Included within this line are loans to third-party-sponsored private equity funds, which represent \$11 billion and \$69 billion in unconsolidated VIE assets and \$534 million and \$498 million in maximum exposure to loss as of June 30, 2023 and December 31, 2022, respectively. The previous tables do not include:

- certain investment funds for which the Company provides investment management services and personal estate trusts for which the Company provides administrative, trustee and/or investment management services;
- certain third-party-sponsored private equity funds to which the Company provides secured credit facilities. The Company has no decision-making power and does not consolidate these funds, some of which may meet the definition of a VIE. The Company's maximum exposure to loss is generally limited to a loan or lending-related commitment. As of June 30, 2023 and December 31, 2022, the Company's maximum exposure to loss related to these transactions was \$16.8 billion and \$33.6 billion, respectively (for more information on these positions, see Note 13 and Note 27 to the Consolidated Financial Statements in Citi's 2022 Form 10-K);
- certain VIEs structured by third parties in which the Company holds securities in inventory, as these investments are made on arm's-length terms;
- certain positions in mortgage- and asset-backed securities held by the Company, which are classified as *Trading account assets* or *Investments*, in which the Company has no other involvement with the related securitization entity deemed to be significant (see Notes 12 and 21 for more information on these positions);
- certain representations and warranties exposures in Citigroup residential mortgage securitizations, in which the original mortgage loan balances are no longer outstanding; and
- VIEs such as preferred securities trusts used in connection with the Company's funding activities. The Company does not have a variable interest in these trusts.

The asset balances for consolidated VIEs represent the carrying amounts of the assets consolidated by the Company. The carrying amount may represent the amortized cost or the current fair value of the assets depending on the classification of the asset (e.g., loan or security) and the associated accounting model ascribed to that classification.

The asset balances for unconsolidated VIEs in which the Company has significant involvement represent the most current information available to the Company. In most cases, the asset balances represent an amortized cost basis without regard to impairments, unless fair value information is readily available to the Company.

The maximum funded exposure represents the balance sheet carrying amount of the Company's investment in the VIE. It reflects the initial amount of cash invested in the VIE, adjusted for any accrued interest and cash principal payments received. The carrying amount may also be adjusted for increases or declines in fair value or any impairment in value recognized in earnings. The maximum exposure of unfunded positions represents the remaining undrawn committed amount, including liquidity and credit facilities provided by the Company or the notional amount of a derivative instrument considered to be a variable interest. In certain transactions, the Company has entered into derivative instruments or other arrangements that are not considered variable interests in the VIE (e.g., interest rate swaps, crosscurrency swaps or where the Company is the purchaser of credit protection under a credit default swap or total return swap where the Company pays the total return on certain assets to the SPE). Receivables under such arrangements are not included in the maximum exposure amounts.

The following tables present certain assets and liabilities of consolidated variable interest entities (VIEs), which are included on Citi's Consolidated Balance Sheet. The assets in the table below include those assets that can only be used to settle obligations of consolidated VIEs and are in excess of those obligations. In addition, the assets in the table below include third-party assets of consolidated VIEs only and exclude intercompany balances that eliminate in consolidation. The liabilities in the table below include third-party liabilities of consolidated VIEs only and exclude intercompany balances that eliminate in consolidation. The liabilities also exclude amounts where creditors or beneficial interest holders have recourse to the general credit of Citigroup.

In millions of dollars	2	ne 30, 2023 audited)	December 31, 2022
Assets of consolidated VIEs to be used to settle obligations of consolidated VIEs			
Cash and due from banks	\$	69 \$	61
Trading account assets		10,417	9,153
Investments		496	594
Loans, net of unearned income			
Consumer		34,786	35,026
Corporate		18,731	19,782
Loans, net of unearned income	\$	53,517 \$	54,808
Allowance for credit losses on loans (ACLL)		(2,623)	(2,520)
Total loans, net	\$	50,894 \$	52,288
Other assets		120	105
Total assets of consolidated VIEs to be used to settle obligations of consolidated VIEs	\$	61,996 \$	62,201

In millions of dollars	une 30, 2023 1audited)	December 31, 2022
Liabilities of consolidated VIEs for which creditors or beneficial interest holders do not have recourse to the general credit of Citigroup		
Short-term borrowings	\$ 9,652 \$	9,807
Long-term debt	7,930	10,324
Other liabilities	853	622
Total liabilities of consolidated VIEs for which creditors or beneficial interest holders do not have recourse to the general credit of Citigroup	\$ 18,435 \$	20,753

# Funding Commitments for Significant Unconsolidated VIEs-Liquidity Facilities and Loan Commitments

The following table presents the notional amount of liquidity facilities and loan commitments that are classified as funding commitments in the VIE tables above:

	 June 30	, 2023	December 31, 2022				
In millions of dollars	Liquidity facilities	Loan/equity commitments	Liquidity facilities	Loan/equity commitments			
Non-agency-sponsored mortgage securitizations	\$ _	s —	\$ —	\$			
Asset-based financing	_	11,636	—	10,726			
Municipal securities tender option bond trusts (TOBs)	681	—	1,108	—			
Municipal investments	_	2,941	—	3,420			
Investment funds		78	_	68			
Other	_	_	_				
Total funding commitments	\$ 681	\$ 14,655	\$ 1,108	\$ 14,214			

## Significant Interests in Unconsolidated VIEs—Balance Sheet Classification

The following table presents the carrying amounts and classification of significant variable interests in unconsolidated VIEs:

In billions of dollars	June 30, 2023			
Cash	\$	— \$	—	
Trading account assets		1.6	1.6	
Investments		8.5	8.6	
Total loans, net of allowance		43.5	44.2	
Other		0.6	0.6	
Total assets	\$	54.2 \$	55.0	

## **Credit Card Securitizations**

The Company's primary credit card securitization activity is through two trusts—Citibank Credit Card Master Trust and Citibank Omni Trust. These trusts are consolidated entities given Citi's continuing involvement. For additional information, see Note 22 to the Consolidated Financial Statements in Citi's 2022 Form 10-K. There were no material cash flows arising from either proceeds from new securitizations or paydowns of maturing notes during the six months ended June 30, 2023 and 2022.

#### **Mortgage Securitizations**

The following tables summarize selected cash flow information and retained interests related to Citigroup mortgage securitizations:

	Three Months Ended June 30,											
		20	23	2022								
In billions of dollars	U.S. agenc sponsore mortgage		Non-agency- sponsored mortgages	U.S. agency- sponsored mortgages	Non-agency- sponsored mortgages							
Principal securitized	\$	1.6	<b>\$ 1.0</b>	\$ 1.9	\$ 8.6							
Proceeds from new securitizations		1.6	0.9	1.8	8.4							
Contractual servicing fees received		_	—	_	_							
Cash flows received on retained interests and other net cash flows			0.1	_	_							
Purchases of previously transferred financial assets		_		_								

	Six Months Ended June 30,												
		20	2022										
In billions of dollars	U.S. agency- sponsored mortgages mortgages		U.S. agency- sponsored mortgages	Non-agency- sponsored mortgages									
Principal securitized	\$	2.3	\$ 2.3	\$ 4.0	\$ 10.2								
Proceeds from new securitizations		2.4	2.0	3.9	10.0								
Contractual servicing fees received		0.1	—	_	—								
Cash flows received on retained interests and other net cash flows		_	0.1	_	_								
Purchases of previously transferred financial assets		_	_	—	—								

Note: Excludes broker-dealer re-securitization transactions.

Gains recognized on the securitization of U.S. agencysponsored mortgages were \$0.2 million and \$0.3 million for the three and six months ended June 30, 2023, respectively. Gains recognized on the securitization of non-agencysponsored mortgages were \$11.3 million and \$13.7 million for the three and six months ended June 30, 2023, respectively. Gains recognized on the securitization of U.S. agencysponsored mortgages were \$0.3 million and \$0.6 million for the three and six months ended June 30, 2022, respectively. Gains recognized on the securitization of non-agencysponsored mortgages were \$35 million and \$73.7 million for the three and six months ended June 30, 2022, respectively.

		June 30, 2023		December 31, 2022							
			ey-sponsored gages <sup>(1)</sup>			cy-sponsored gages <sup>(1)</sup>					
In millions of dollars	U.S. agency- sponsored mortgages	Senior interests <sup>(2)</sup>	Subordinated interests	U.S. agency- sponsored mortgages	Senior interests	Subordinated interests					
Carrying value of retained interests <sup>(3)</sup>	\$ 684	\$ 1,043	\$	\$ 659	\$ 1,119	\$ 943					

(1) Disclosure of non-agency-sponsored mortgages as senior and subordinated interests is indicative of the interests' position in the capital structure of the securitization.

(2) Senior interests in non-agency-sponsored mortgages include \$1.7 million related to personal loan securitizations at June 30, 2023.

(3) Retained interests consist of Level 2 and Level 3 assets depending on the observability of significant inputs. See Note 22 for more information about fair value measurements.

The following table includes information about loan delinquencies and liquidation losses for assets held in non-consolidated, non-agency-sponsored securitization entities:

									Liquidation losses						
	S	Securitiz	ecuritized assets 9		90 days past due			Three Months Ended June 30,				Six Months Ended June 30,			
In billions of dollars, except liquidation losses in millions		ın. 30, 2023		ec. 31, 2022		un. 30, 2023	Ι	Dec. 31, 2022		2023	2022		2023	2022	
Securitized assets															
Residential mortgages <sup>(1)</sup>	\$	30	\$	30.8	\$	0.5	\$	0.5	\$		\$ (0.3)	\$	2.3	\$ 1.2	
Commercial and other		28.7		28.8						—					
Total	\$	58.7	\$	59.6	\$	0.5	\$	0.5	\$	_	\$ (0.3)	\$	2.3	\$ 1.2	

(1) Securitized assets include \$0.1 billion of personal loan securitizations as of June 30, 2023.

#### Mortgage Servicing Rights (MSRs)

The fair value of Citi's capitalized MSRs was \$681 million and \$600 million at June 30, 2023 and 2022, respectively. The MSRs correspond to principal loan balances of \$51 billion and \$49 billion as of June 30, 2023 and 2022, respectively. The following table summarizes the changes in capitalized MSRs:

	Tł	hree Month June 3	Six Month June		
In millions of dollars	<b>2023</b> 2022 <b>2023</b>		2023	2022	
Balance, beginning of period	\$	<b>658</b> \$	520	\$ 665 \$	5 404
Originations		19	35	31	69
Changes in fair value of MSRs due to changes in inputs and assumptions		22	59	19	158
Other changes <sup>(1)</sup>		(18)	(14)	(34)	(31)
Sales of MSRs		_	_	_	
Balance, as of June 30	\$	681 \$	600	\$ 681 \$	600

(1) Represents changes due to customer payments and passage of time.

The fair value of the MSRs is primarily affected by changes in prepayments of mortgages that result from shifts in mortgage interest rates. Specifically, higher interest rates tend to lead to declining prepayments, which causes the fair value of the MSRs to increase. In managing this risk, Citigroup economically hedges a significant portion of the value of its MSRs through the use of interest rate derivative contracts, forward purchase and sale commitments of mortgage-backed securities and purchased securities, all classified as *Trading account assets*.

The Company receives fees during the course of servicing previously securitized mortgages. The amounts of these fees were as follows:

	T	hree Moi Jun		S		ths Ended e 30,				
In millions of dollars		2023	2022		2023	2022				
Servicing fees	\$	32	\$ 30	\$	65	\$	59			
Late fees		1	1		2		2			
Total MSR fees	\$	33	\$ 31	\$	67	\$	61			

In the Consolidated Statement of Income these fees are primarily classified as *Commissions and fees*, and changes in MSR fair values are classified as *Other revenue*.

## **Re-securitizations**

The Company engages in re-securitization transactions in which debt securities are transferred to a VIE in exchange for new beneficial interests. Citi did not transfer non-agency (private label) securities to re-securitization entities during the three months ended June 30, 2023 and 2022. These securities are backed by either residential or commercial mortgages and are often structured on behalf of clients.

As of June 30, 2023 and December 31, 2022, Citi held no retained interests in private label re-securitization transactions structured by Citi.

The Company also re-securitizes U.S. governmentagency-guaranteed mortgage-backed (agency) securities. During the three and six months ended June 30, 2023, Citi transferred agency securities with a fair value of approximately \$3.3 billion and \$8.6 billion, respectively, to resecuritization entities, compared to approximately \$5.6 billion and \$14.9 billion for the three and six months ended June 30, 2022, respectively.

As of June 30, 2023, the fair value of Citi-retained interests in agency re-securitization transactions structured by Citi totaled approximately \$1.4 billion (including \$402 million related to re-securitization transactions executed in 2023), compared to \$1.4 billion as of December 31, 2022 (including \$801 million related to re-securitization transactions executed in 2022), which is recorded in *Trading account assets*. The original fair values of agency re-securitization transactions in which Citi holds a retained interest as of June 30, 2023 and December 31, 2022 were approximately \$86.8 billion and \$79.4 billion, respectively.

As of June 30, 2023 and December 31, 2022, the Company did not consolidate any private label or agency resecuritization entities.

## Citi-Administered Asset-Backed Commercial Paper Conduits

At June 30, 2023 and December 31, 2022, the commercial paper conduits administered by Citi had approximately \$18.6 billion and \$19.6 billion of purchased assets outstanding, respectively, and had incremental funding commitments with clients of approximately \$16.1 billion and \$13.9 billion, respectively.

Substantially all of the funding of the conduits is in the form of short-term commercial paper. At June 30, 2023 and December 31, 2022, the weighted average remaining lives of the commercial paper issued by the conduits were approximately 66 and 64 days, respectively.

Each asset purchased by the conduit is structured with transaction-specific credit enhancement features provided by the third-party client seller, including over-collateralization, cash and excess spread collateral accounts, direct recourse or third-party guarantees. These credit enhancements are sized with the objective of approximating a credit rating of A or above, based on Citi's internal risk ratings. In addition to the transaction-specific credit enhancements, the conduits, other than the government-guaranteed loan conduit, have obtained letters of credit from the Company, which equal at least 8% to 10% of the conduit's assets with a minimum of \$350 million. The letters of credit provided by the Company to the conduits

total approximately \$1.9 billion and \$1.9 billion as of June 30, 2023 and December 31, 2022, respectively. The net result across multiseller conduits administered by the Company is that, in the event that defaulted assets exceed the transaction-specific credit enhancements described above, any losses in each conduit are allocated first to the Company and then to the commercial paper investors.

At June 30, 2023 and December 31, 2022, the Company owned \$7.7 billion and \$8.6 billion, respectively, of the commercial paper issued by its administered conduits. The Company's investments were not driven by market illiquidity and the Company is not obligated under any agreement to purchase the commercial paper issued by the conduits.

### Municipal Securities Tender Option Bond (TOB) Trusts

At June 30, 2023 and December 31, 2022, none of the municipal bonds owned by non-customer TOB trusts were subject to a credit guarantee provided by the Company.

At June 30, 2023 and December 31, 2022, liquidity agreements provided with respect to customer TOB trusts totaled \$0.7 billion and \$1.1 billion, respectively, of which \$0.5 billion and \$0.7 billion, respectively, were offset by reimbursement agreements. For the remaining exposure related to TOB transactions, where the residual owned by the customer was at least 25% of the bond value at the inception of the transaction, no reimbursement agreement was executed.

The Company also provides other liquidity agreements or letters of credit to customer-sponsored municipal investment funds, which are not variable interest entities, and municipality-related issuers that totaled \$1.4 billion and \$1.4 billion as of June 30, 2023 and December 31, 2022, respectively. These liquidity agreements and letters of credit are offset by reimbursement agreements with various term-out provisions.

## **Asset-Based Financing**

The primary types of Citi's asset-based financings, total assets of the unconsolidated VIEs with significant involvement and Citi's maximum exposure to loss are presented below. For Citi to realize the maximum loss, the VIE (borrower) would have to default with no recovery from the assets held by the VIE.

	 June 3	0, 2023		Decembe	r 31	31, 2022		
In millions of dollars	 Total onsolidated IE assets	Maximum exposure to unconsolidate VIEs	1	Total unconsolidated VIE assets		Maximum exposure to consolidated VIEs		
Туре			Τ					
Commercial and other real estate	\$ 43,836	\$ 9,10	)   \$	43,236	\$	8,806		
Corporate loans	21,396	14,53	5	23,120		15,077		
Other (including investment funds, airlines and shipping)	104,116	28,83	1	166,320		27,986		
Total	\$ 169,348	\$ 52,46	5 \$	5 232,676	\$	51,869		

## **21. DERIVATIVES**

In the ordinary course of business, Citigroup enters into various types of derivative transactions. All derivatives are recorded in *Trading account assets/Trading account liabilities* on the Consolidated Balance Sheet. For additional information regarding Citi's use of and accounting for derivatives, see Note 23 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

Information pertaining to Citigroup's derivatives activities, based on notional amounts, is presented in the table below. Derivative notional amounts are reference amounts from which contractual payments are derived and do not represent a complete measure of Citi's exposure to derivative transactions. Citi's derivative exposure arises primarily from market fluctuations (i.e., market risk), counterparty failure (i.e., credit risk) and/or periods of high volatility or financial stress (i.e., liquidity risk), as well as any market valuation adjustments that may be required on the transactions. Moreover, notional amounts do not reflect the netting of offsetting trades. For example, if Citi enters into a receivefixed interest rate swap with \$100 million notional, and offsets this risk with an identical but opposite pay-fixed position with a different counterparty, \$200 million in derivative notionals is reported, although these offsetting positions may result in de minimis overall market risk.

In addition, aggregate derivative notional amounts can fluctuate from period to period in the normal course of business based on Citi's market share, levels of client activity and other factors.

### **Derivative Notionals**

	Н	edging instrumen	its	under ASC 815	Trading derivat	tive	instruments
In millions of dollars	<b>June 30,</b> December 31, <b>2023</b> 2022		June 30, 2023		December 31, 2022		
Interest rate contracts							
Swaps	\$	256,131	\$	255,280	\$ 26,965,401	\$	23,780,711
Futures and forwards		_		—	3,494,099		2,966,025
Written options		—		—	2,598,919		1,937,025
Purchased options		_		_	2,425,954		1,881,291
Total interest rate contracts	\$	256,131	\$	255,280	\$ 35,484,373	\$	30,565,052
Foreign exchange contracts							
Swaps	\$	42,117	\$	48,678	\$ 7,613,604	\$	6,746,070
Futures, forwards and spot		47,752		43,666	3,869,688		3,350,341
Written options		_		—	838,598		789,077
Purchased options		_		—	829,662		783,591
Total foreign exchange contracts	\$	89,869	\$	92,344	\$ 13,151,552	\$	11,669,079
Equity contracts							
Swaps	\$	_	\$	—	\$ 273,483	\$	266,115
Futures and forwards		_		_	87,637		76,935
Written options		_		_	558,215		482,266
Purchased options		_		_	444,663		387,766
Total equity contracts	\$	_	\$		\$ 1,363,998	\$	1,213,082
Commodity and other contracts							
Swaps	\$	—	\$	—	\$ 82,002	\$	90,884
Futures and forwards		1,586		1,571	177,615		165,314
Written options		_		—	50,931		45,862
Purchased options		_		—	51,882		48,197
Total commodity and other contracts	\$	1,586	\$	1,571	\$ 362,430	\$	350,257
Credit derivatives <sup>(1)</sup>							
Protection sold	\$	_	\$	_	\$ 725,634	\$	593,136
Protection purchased		_		_	789,558		641,639
Total credit derivatives	\$	_	\$		\$ 1,515,192	\$	1,234,775
Total derivative notionals	\$	347,586	\$	349,195	\$ 51,877,545	\$	45,032,245

(1) Credit derivatives are arrangements designed to allow one party (protection purchaser) to transfer the credit risk of a "reference asset" to another party (protection seller). These arrangements allow a protection seller to assume the credit risk associated with the reference asset without directly purchasing that asset. The Company enters into credit derivative positions for purposes such as risk management, yield enhancement, reduction of credit concentrations and diversification of overall risk.

The following tables present the gross and net fair values of the Company's derivative transactions and the related offsetting amounts as of June 30, 2023 and December 31, 2022. Gross positive fair values are offset against gross negative fair values by counterparty, pursuant to enforceable master netting agreements. Under ASC 815-10-45, payables and receivables in respect of cash collateral received from or paid to a given counterparty pursuant to a credit support annex are included in the offsetting amount if a legal opinion supporting the enforceability of netting and collateral rights has been obtained. GAAP does not permit similar offsetting for security collateral.

In addition, the following tables reflect rule changes adopted by clearing organizations that require or allow entities to treat certain derivative assets, liabilities and the related variation margin as settlement of the related derivative fair values for legal and accounting purposes, as opposed to presenting gross derivative assets and liabilities that are subject to collateral, whereby the counterparties would also record a related collateral payable or receivable. The tables also present amounts that are not permitted to be offset, such as security collateral or cash collateral posted at third-party custodians, but which would be eligible for offsetting to the extent that an event of default has occurred and a legal opinion supporting enforceability of the netting and collateral rights has been obtained.

### Derivative Mark-to-Market (MTM) Receivables/Payables

	Derivatives Trading account a	classified in ssets/liabilities <sup>(1)(2)</sup>	
In millions of dollars at June 30, 2023	 Assets	Liabilities	
Derivatives instruments designated as ASC 815 hedges			
Over-the-counter	\$ 414	\$	18
Cleared	126		18
Interest rate contracts	\$ 540	\$	36
Over-the-counter	\$ 1,620	\$ 1	,306
Cleared	1		
Foreign exchange contracts	\$ 1,621	\$ 1	,306
Total derivatives instruments designated as ASC 815 hedges	\$ 2,161		,342
Derivatives instruments not designated as ASC 815 hedges			
Over-the-counter	\$ 120,857	\$ 114	,712
Cleared	47,014		,212
Exchange traded	283		251
Interest rate contracts	\$ 168,154	\$ 164	1,175
Over-the-counter	\$ 157,724	\$ 150	,913
Cleared	511		601
Exchange traded	_		5
Foreign exchange contracts	\$ 158,235	\$ 151	,519
Over-the-counter	\$ 22,029		,163
Cleared	36		6
Exchange traded	25,020	24	1,412
Equity contracts	\$ 47,085	\$ 51	,581
Over-the-counter	\$ 15,640	\$ 16	5,678
Exchange traded	886		992
Commodity and other contracts	\$ 16,526		,670
Over-the-counter	\$ 6,566		6,607
Cleared	4,273		,121
Credit derivatives	\$ 10,839		),728
Total derivatives instruments not designated as ASC 815 hedges	\$ 400,839		5,673
Total derivatives	\$ 403,000		7,015
Less: Netting agreements <sup>(3)</sup>	\$ (312,754)		2,754)
Less: Netting cash collateral received/paid <sup>(4)</sup>	(18,645)		3,221)
Net receivables/payables included on the Consolidated Balance Sheet <sup>(5)</sup>	\$ 71,601	\$ 56	<b>5,040</b>
Additional amounts subject to an enforceable master netting agreement, but not offset on the Consolidated Balance Sheet			
Less: Cash collateral received/paid	\$ (723)	\$ (2	2,793)
Less: Non-cash collateral received/paid	(3,841)	(10	),406)
Total net receivables/payables <sup>(5)</sup>	\$ 67,037	\$ 42	2,841

(1) The derivative fair values are also presented in Note 22.

(2) Over-the-counter (OTC) derivatives are derivatives executed and settled bilaterally with counterparties without the use of an organized exchange or central clearing house. Cleared derivatives include derivatives executed bilaterally with a counterparty in the OTC market, but then novated to a central clearing house, whereby the central clearing house becomes the counterparty to both of the original counterparties. Exchange-traded derivatives include derivatives executed directly on an organized exchange that provides pre-trade price transparency.

(3) Represents the netting of balances with the same counterparty under enforceable netting agreements. Approximately \$241 billion, \$48 billion and \$24 billion of the netting against trading account asset/liability balances is attributable to each of the OTC, cleared and exchange-traded derivatives, respectively.

(4) Represents the netting of cash collateral paid and received by counterparties under enforceable credit support agreements. Substantially all netting of cash collateral received and paid is against OTC derivative assets and liabilities, respectively.

(5) The net receivables/payables include approximately \$14 billion of derivative asset and \$9 billion of derivative liability fair values not subject to enforceable master netting agreements, respectively.

	Derivatives classified in Trading account assets/liabilities <sup>(1)(2)</sup>									
In millions of dollars at December 31, 2022		Assets		Liabilities						
Derivatives instruments designated as ASC 815 hedges										
Over-the-counter	\$	468	\$	1						
Cleared		129		101						
Interest rate contracts	\$	597	\$	102						
Over-the-counter	\$	2,288	\$	1,766						
Cleared		3		3						
Foreign exchange contracts	\$	2,291	\$	1,769						
Total derivatives instruments designated as ASC 815 hedges	\$	2,888	\$	1,871						
Derivatives instruments not designated as ASC 815 hedges										
Over-the-counter	\$	126,844	\$	119,854						
Cleared		50,515		52,566						
Exchange traded		248		98						
Interest rate contracts	\$	177,607	\$	172,518						
Over-the-counter	\$	184,869	\$	183,578						
Cleared		502		643						
Exchange traded		1		5						
Foreign exchange contracts	\$	185,372	\$	184,226						
Over-the-counter	\$	19,674	\$	21,871						
Cleared		1		4						
Exchange traded		22,732		21,908						
Equity contracts	\$	42,407	\$	43,783						
Over-the-counter	\$	27,285	\$	24,912						
Exchange traded		1,039		1,406						
Commodity and other contracts	\$	28,324	\$	26,318						
Over-the-counter	\$	6,836	\$	5,807						
Cleared		1,553		1,970						
Credit derivatives	\$	8,389	\$	7,777						
Total derivatives instruments not designated as ASC 815 hedges	\$	442,099	\$	434,622						
Total derivatives	\$	444,987	\$	436,493						
Less: Netting agreements <sup>(3)</sup>	\$	(346,545)	\$	(346,545)						
Less: Netting cash collateral received/paid <sup>(4)</sup>		(23,136)		(30,032)						
Net receivables/payables included on the Consolidated Balance Sheet <sup>(5)</sup>	\$	75,306	\$	59,916						
Additional amounts subject to an enforceable master netting agreement, but not offset on the Consolidated Balance Sheet										
Less: Cash collateral received/paid	\$	(1,455)	\$	(2,272)						
Less: Non-cash collateral received/paid		(5,923)		(13,475)						
Total net receivables/payables <sup>(5)</sup>	\$	67,928	\$	44,169						

(1) The derivative fair values are also presented in Note 22.

(2) Over-the-counter (OTC) derivatives are derivatives executed and settled bilaterally with counterparties without the use of an organized exchange or central clearing house. Cleared derivatives include derivatives executed bilaterally with a counterparty in the OTC market, but then novated to a central clearing house, whereby the central clearing house becomes the counterparty to both of the original counterparties. Exchange-traded derivatives include derivatives executed directly on an organized exchange that provides pre-trade price transparency.

(3) Represents the netting of balances with the same counterparty under enforceable netting agreements. Approximately \$276 billion, \$49 billion and \$22 billion of the netting against trading account asset/liability balances is attributable to each of the OTC, cleared and exchange-traded derivatives, respectively.

(4) Represents the netting of cash collateral paid and received by counterparties under enforceable credit support agreements. Substantially all netting of cash collateral received and paid is against OTC derivative assets and liabilities, respectively.

(5) The net receivables/payables include approximately \$14 billion of derivative asset and \$11 billion of derivative liability fair values not subject to enforceable master netting agreements, respectively.

For the three and six months ended June 30, 2023 and 2022, amounts recognized in *Principal transactions* in the Consolidated Statement of Income include certain derivatives not designated in a qualifying hedging relationship. Citigroup presents this disclosure by business classification, showing derivative gains and losses related to its trading activities together with gains and losses related to non-derivative instruments within the same trading portfolios, as this represents how these portfolios are risk managed. See Note 6 for further information.

The amounts recognized in *Other revenue* in the Consolidated Statement of Income related to derivatives not designated in a qualifying hedging relationship are presented below. The table below does not include any offsetting gains (losses) on the economically hedged items to the extent that such amounts are also recorded in *Other revenue*.

	Gains (losses) included in Other revenue									
		Three Mon Inded Jun		E	Six Mor nded Ju					
In millions of dollars	2	023 2	2022	2	023	2022				
Interest rate contracts	\$	(22) \$	72	\$	(34) \$	144				
Foreign exchange		(6)	(4)		(64)	(81)				
Total	\$	(28) \$	68	\$	(98) \$	63				

## **Fair Value Hedges**

For additional information regarding Citi's fair value hedges, see Note 23 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

The following table summarizes the gains (losses) on the Company's fair value hedges:

	Gains (losses) on fair value hedges <sup>(1)</sup>													
		Thr	ee Months	End	led June 3	30,			S	ix Months E	nde	d June 30	,	
		2023			2022				202	23		202	22	
In millions of dollars	Other revenue		Net interest income	Other Net interest revenue income				1	Other revenue	Net interest income	Other revenue		Net interest income	
Gain (loss) on the hedging derivatives included in assessment of the effectiveness of fair value hedges														
Interest rate hedges	\$ -	- 1	6 (491)	\$	—	\$	(1,717)	\$	—	\$ (492)	\$	—	\$ (6,383)	
Foreign exchange hedges	73	38	_	1	(1,234)		—		1,286	—		(1,659)	—	
Commodity hedges <sup>(4)</sup>	18	33	_		(257)		—		(325)	—		615	—	
Total gain (loss) on the hedging derivatives included in assessment of the effectiveness of fair value hedges	\$ 92	21 \$	6 (491)	\$	(1,491)	\$	(1,717)	\$	961	\$ (492)	\$	(1,044)	\$ (6,383)	
Gain (loss) on the hedged item in designated and qualifying fair value hedges														
Interest rate hedges	<b>\$</b> -	_ \$	<b>488</b>	\$	_	\$	1,646	\$	—	\$ 481	\$	—	\$ 6,243	
Foreign exchange hedges	(73	<b>38</b> )	_		1,233		_		(1,286)	_		1,657	—	
Commodity hedges <sup>(4)</sup>	(18	33)	_		257		_		325			(615)	—	
Total gain (loss) on the hedged item in designated and qualifying fair value hedges	\$ (92	21) \$	6 488	\$	1,490	\$	1,646	\$	(961)	\$ 481	\$	1,042	\$ 6,243	
Net gain (loss) on the hedging derivatives excluded from assessment of the effectiveness of fair value hedges														
Interest rate hedges	<b>\$</b> -	- 9	. —	\$	—	\$	(5)	\$		s —	\$	—	\$ (11)	
Foreign exchange hedges <sup>(2)</sup>		2	—		73		—		24	_		104	—	
Commodity hedges <sup>(3)(4)</sup>	4	52			(26)		—		101			23		
Total net gain (loss) on the hedging derivatives excluded from assessment of the effectiveness of fair value hedges	\$ 5	54 \$	·	\$	47	\$	(5)	\$	125	s —	\$	127	\$ (11)	

(1) Gain (loss) amounts for interest rate risk hedges are included in *Interest income/Interest expense*. The accrued interest income on fair value hedges is recorded in *Net interest income* and is excluded from this table. Amounts included both hedges of AFS securities and long-term debt on a net basis, which largely offset in the current period.

(2) Amounts related to the forward points (i.e., the spot-forward difference) that are excluded from the assessment of hedge effectiveness and are generally reflected directly in earnings under the mark-to-market approach. Amounts related to cross-currency basis, which are recognized in *AOCI*, are not reflected in the table above. The amount of cross-currency basis included in *AOCI* was \$22 million and \$(4) million for the three and six months ended June 30, 2023 and \$12 million and \$76 million for the three and six months ended June 30, 2022, respectively.

(3) Amounts related to the forward points (i.e., the spot-forward difference) that are excluded from the assessment of hedge effectiveness reflected directly in earnings under the mark-to-market approach or recorded in *AOCI* under the amortization approach. The quarter ended June 30, 2023 includes gain (loss) of approximately \$41 million and \$11 million under the mark-to-market approach and amortization approach, respectively. The quarter ended June 30, 2022 includes gain (loss) of approximately \$(28) million and \$2 million under the mark-to-market approach and amortization approach, respectively.

(4) The gain (loss) amounts for commodity hedges are included in *Principal transactions* for periods beginning 2023.

## **Cumulative Basis Adjustment**

Upon electing to apply ASC 815 fair value hedge accounting, the carrying value of the hedged item is adjusted to reflect the cumulative changes in the hedged risk. This cumulative basis adjustment becomes part of the carrying amount of the hedged item until the hedged item is derecognized from the balance sheet. The table below presents the carrying amount of Citi's hedged assets and liabilities under qualifying fair value hedges at June 30, 2023 and December 31, 2022, along with the cumulative basis adjustments included in the carrying value of those hedged assets and liabilities that would reverse through earnings in future periods.

#### In millions of dollars

Balance sheet line item in which hedged	a	Carrying mount of dged asset/	increasing (de	nsis adjustment ecreasing) the g amount
item is recorded	l	iability <sup>(1)</sup>	Active	De-designated
As of June 30, 20	23			
Debt securities AFS <sup>(2)(4)</sup>	\$	87,804	\$ (2,936)	\$ (360)
Long-term debt		130,665	(3,522)	(4,816)
As of December 3	1, 20	)22		
Debt securities AFS <sup>(3)(4)</sup>	\$	98,837	\$ (2,976)	\$ (333)
Long-term debt		144,549	(5,040)	(3,399)

 Excludes physical commodities inventories with a carrying value of approximately \$8 billion as of June 30, 2023, which includes cumulative basis adjustments of approximately \$540 million for active hedges.

- (2) These amounts include a cumulative basis adjustment of \$(201) million for active hedges and \$(283) million for de-designated hedges as of June 30, 2023, related to certain financial assets previously designated as the hedged item in a fair value hedge using the portfolio layer approach. The Company designated approximately \$7 billion as the hedged amount (from a closed portfolio of financial assets with a carrying value of \$13 billion as of June 30, 2023) in a portfolio layer-hedging relationship.
- (3) These amounts include a cumulative basis adjustment of \$(91) million for active hedges and \$(309) million for de-designated hedges as of December 31, 2022, related to certain prepayable financial assets previously designated as the hedged item in a fair value hedge using the last-of-layer approach. The Company designated approximately \$3 billion as the hedged amount (from a closed portfolio of prepayable financial assets with a carrying value of \$11 billion as of December 31, 2022) in a last-of-layer hedging relationship.
- (4) Carrying amount represents the amortized cost.

## **Cash Flow Hedges**

Citigroup hedges the variability of forecasted cash flows due to changes in contractually specified interest rates associated with floating-rate assets/liabilities and other forecasted transactions. These cash flow hedging relationships use either regression analysis or dollar-offset ratio analysis to assess whether the hedging relationships are highly effective at inception and on an ongoing basis.

For cash flow hedges, the entire change in the fair value of the hedging derivative is recognized in *AOCI* and then reclassified to earnings in the same period that the forecasted hedged cash flows impact earnings. The net gain (loss) associated with cash flow hedges expected to be reclassified from *AOCI* within 12 months of June 30, 2023 is approximately \$(1.3) billion. The maximum length of time over which forecasted cash flows are hedged is 13 years.

The pretax change in *AOCI* from cash flow hedges is presented below. The after-tax impact of cash flow hedges on *AOCI* is shown in Note 18.

		Th	ee Months	En	ded June 30,	Six Months Ended June 30,							
In millions of dollars	2023				2022			2023		2022			
Amount of gain (loss) recognized in <i>AOCI</i> on derivatives													
Interest rate contracts	\$		(280)	\$		(681)	\$		(259)	\$	(2,441)		
Foreign exchange contracts			17			(7)			5		16		
Total gain (loss) recognized in <i>AOCI</i>	\$		(263)	\$		(688)	\$		(254)	\$	(2,425)		
	I	Other revenue	Net interest income		Other revenue	Net interest income		Other revenue	Net interest income	Other revenue	Net interest income		
Amount of gain (loss) reclassified from <i>AOCI</i> to earnings <sup>(1)</sup>													
Interest rate contracts	\$	— \$	(495)	\$	— \$	199	\$	— \$	(964)	\$ - \$	485		
Foreign exchange contracts		(1)	—		(1)	_		(2)	_	(2)	—		
Total gain (loss) reclassified from <i>AOCI</i> into earnings	\$	(1) \$	(495)	\$	(1) \$	199	\$	(2) \$	(964)	\$ (2) \$	485		
Net pretax change in cash flow hedges included within <i>AOCI</i>		\$	233		\$	(886)		\$	712	\$	(2,908)		

All amounts reclassified into earnings for interest rate contracts are included in *Interest income/Interest expense (Net interest income)*. For all other hedges, the
amounts reclassified to earnings are included primarily in *Other revenue* and *Net interest income* in the Consolidated Statement of Income.

#### **Net Investment Hedges**

Citigroup uses foreign currency forwards, cross-currency swaps, options and foreign currency-denominated debt instruments to manage the foreign exchange risk associated with Citigroup's equity investments in several non-U.S.dollar-functional-currency foreign subsidiaries. Citi records the change in the fair value of these hedging instruments and the translation adjustment for the investments in these foreign subsidiaries in Foreign currency translation adjustment (CTA) within *AOCI*. The pretax gain (loss) recorded in CTA within *AOCI*, related to net investment hedges, was \$(272) million and \$(948) million for the three and six months ended June 30, 2023 and \$836 million and \$641 million for the three and six months ended June 30, 2022, respectively. June 30, 2022 includes a \$47 million pretax loss related to net investment hedges that was reclassified from *AOCI* into earnings (recorded in *Other revenue*).

## **Credit Derivatives**

The following tables summarize the key characteristics of Citi's credit derivatives portfolio by counterparty and derivative form:

	 Fair	valu	es	Notionals			
In millions of dollars at June 30, 2023	Receivable <sup>(1)</sup>		Payable <sup>(2)</sup>		Protection purchased		Protection sold
By instrument							
Credit default swaps and options	\$ 10,015	\$	10,352	\$	768,300	\$	721,289
Total return swaps and other	824		376		21,258		4,345
Total by instrument	\$ 10,839	\$	10,728	\$	789,558	\$	725,634
By rating of reference entity							
Investment grade	\$ 5,491	\$	4,977	\$	619,717	\$	574,059
Non-investment grade	5,348		5,751		169,841		151,575
Total by rating of reference entity	\$ 10,839	\$	10,728	\$	789,558	\$	725,634
By maturity							
Within 1 year	\$ 1,242	\$	1,642	\$	164,261	\$	146,723
From 1 to 5 years	7,503		7,102		570,605		538,159
After 5 years	2,094		1,984		54,692		40,752
Total by maturity	\$ 10,839	\$	10,728	\$	789,558	\$	725,634

(1) The fair value amount receivable is composed of \$4,249 million under protection purchased and \$6,590 million under protection sold.

(2) The fair value amount payable is composed of \$7,011 million under protection purchased and \$3,717 million under protection sold.

	Fair values				Notic	ls	
In millions of dollars at December 31, 2022		Receivable <sup>(1)</sup>		Payable <sup>(2)</sup>	Protection purchased		Protection sold
By instrument							
Credit default swaps and options	\$	6,867	\$	7,360	\$ 623,981	\$	586,504
Total return swaps and other		1,522		417	17,658		6,632
Total by instrument	\$	8,389	\$	7,777	\$ 641,639	\$	593,136
By rating of reference entity							
Investment grade	\$	3,796	\$	2,970	\$ 499,339	\$	462,873
Non-investment grade		4,593		4,807	142,300		130,263
Total by rating of reference entity	\$	8,389	\$	7,777	\$ 641,639	\$	593,136
By maturity							
Within 1 year	\$	1,753	\$	1,801	\$ 147,031	\$	148,721
From 1 to 5 years		4,577		4,134	443,113		407,293
After 5 years		2,059		1,842	51,495		37,122
Total by maturity	\$	8,389	\$	7,777	\$ 641,639	\$	593,136

(1) The fair value amount receivable is composed of \$5,094 million under protection purchased and \$3,295 million under protection sold.

(2) The fair value amount payable is composed of \$3,573 million under protection purchased and \$4,204 million under protection sold.

#### **Credit Risk-Related Contingent Features in Derivatives**

Certain derivative instruments contain provisions that require the Company to either post additional collateral or immediately settle any outstanding liability balances upon the occurrence of a specified event related to the credit risk of the Company. These events, which are defined by the existing derivative contracts, are primarily downgrades in the credit ratings of the Company and its affiliates.

The fair value (excluding CVA) of all derivative instruments with credit risk-related contingent features that were in a net liability position at June 30, 2023 and December 31, 2022 was \$16 billion and \$18 billion, respectively. The Company posted \$14 billion and \$15 billion as collateral for this exposure in the normal course of business as of June 30, 2023 and December 31, 2022, respectively.

A downgrade could trigger additional collateral or cash settlement requirements for the Company and certain affiliates. In the event that Citigroup and Citibank were downgraded a single notch by all three major rating agencies as of June 30, 2023, the Company could be required to post an additional \$0.8 billion as either collateral or settlement of the derivative transactions. In addition, the Company could be required to segregate with third-party custodians collateral previously received from existing derivative counterparties in the amount of \$16 million upon the single notch downgrade, resulting in aggregate cash obligations and collateral requirements of approximately \$0.8 billion.

#### **Derivatives Accompanied by Financial Asset Transfers**

For transfers of financial assets accounted for as a sale by the Company, and for which the Company has retained substantially all of the economic exposure to the transferred asset through a total return swap executed with the same counterparty in contemplation of the initial sale (and still outstanding), the asset amounts derecognized and the gross cash proceeds received as of the date of derecognition were \$2.7 billion and \$1.4 billion as of June 30, 2023 and December 31, 2022, respectively.

At June 30, 2023, the fair value of these previously derecognized assets was \$2.7 billion. The fair value of the total return swaps as of June 30, 2023 was \$39 million recorded as gross derivative assets and \$24 million recorded as gross derivative liabilities. At December 31, 2022, the fair value of these previously derecognized assets was \$1.4 billion, and the fair value of the total return swaps was \$27 million recorded as gross derivative assets and \$32 million recorded as gross derivative liabilities.

The balances for the total return swaps are on a gross basis, before the application of counterparty and cash collateral netting, and are included primarily as equity derivatives in the tabular disclosures in this Note.

### 22. FAIR VALUE MEASUREMENT

For additional information regarding fair value measurement at Citi, see Note 25 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

#### **Fair Value Hierarchy**

ASC 820-10 specifies a hierarchy of inputs based on whether the inputs are observable or unobservable. Observable inputs are developed using market data and reflect market participant assumptions, while unobservable inputs reflect the Company's market assumptions. These two types of inputs have created the following fair value hierarchy:

- Level 1: Quoted prices for *identical* instruments in active markets.
- Level 2: Quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active and model-derived valuations in which all significant inputs and significant value drivers are *observable* in the market.
- Level 3: Valuations derived from valuation techniques in which one or more significant inputs or significant value drivers are *unobservable*.

As required under the fair value hierarchy, the Company considers relevant and observable market inputs in its valuations where possible.

The fair value hierarchy classification approach typically utilizes rules-based and data-driven selection criteria to determine whether an instrument is classified as Level 1, Level 2 or Level 3:

- The determination of whether an instrument is quoted in an active market and therefore considered a Level 1 instrument is based upon the frequency of observed transactions and the quality of independent market data available on the measurement date.
- A Level 2 classification is assigned where there is observability of prices/market inputs to models, or where any unobservable inputs are not significant to the valuation. The determination of whether an input is considered observable is based on the availability of independent market data and its corroboration, for example through observed transactions in the market.
- Otherwise, an instrument is classified as Level 3.

### **Market Valuation Adjustments**

The table below summarizes the credit valuation adjustments (CVA) and funding valuation adjustments (FVA) applied to the fair value of derivative instruments at June 30, 2023 and December 31, 2022:

	Credit and funding valuation adjustments contra-liability (contra-ass									
In millions of dollars		June 30, 2023	December 31, 2022							
Counterparty CVA	\$	(651)	\$ (816)							
Asset FVA		(502)	(622)							
Citigroup (own credit) CVA		456	607							
Liability FVA		219	263							
Total CVA and FVA— derivative instruments	\$	(478)	\$ (568)							

The table below summarizes pretax gains (losses) related to changes in CVA on derivative instruments, net of hedges, FVA on derivatives and debt valuation adjustments (DVA) on Citi's own fair value option (FVO) liabilities for the periods indicated:

	Credit/funding/debt valuation adjustments gain (loss)										
	Т	hree Month June 3		Six Months Ended June 30,							
In millions of dollars	2023		2022	2023	2022						
Counterparty CVA	\$	4 \$	(94)	\$ (30)	\$ (201)						
Asset FVA		100	(46)	94	(151)						
Own credit CVA		(114)	182	(149)	298						
Liability FVA		(17)	68	(44)	90						
Total CVA and FVA—derivative instruments	\$	(27) \$	110	\$ (129)	\$ 36						
DVA related to own FVO liabilities <sup>(1)</sup>	\$	(837) \$	2,592	\$ (1,270)	\$ 3,642						
Total CVA, DVA and FVA	\$	(864) \$	2,702	\$ (1,399)	\$ 3,678						

(1) See Note 20 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

## Items Measured at Fair Value on a Recurring Basis

The following tables present for each of the fair value hierarchy levels the Company's assets and liabilities that are measured at fair value on a recurring basis at June 30, 2023 and December 31, 2022. The Company may hedge positions that have been classified in the Level 3 category with other financial instruments (hedging instruments) that may be classified as Level 3, but also with financial instruments classified as Level 1 or Level 2. The effects of these hedges are presented gross in the following tables:

## **Fair Value Levels**

In millions of dollars at June 30, 2023		Level 1		Level 2	I	level 3	iı	Gross nventory	Netting <sup>(1)</sup>	b	Net alance
Assets											
Securities borrowed and purchased under agreements to resell	\$		\$	428,174	\$	140	\$	428,314	\$ (218,188)	\$	210,126
Trading non-derivative assets											
Trading mortgage-backed securities											
U.S. government-sponsored agency guaranteed		—		55,299		659		55,958	—		55,958
Residential		1		2,936		145		3,082	—		3,082
Commercial		—		784		182		966	_		966
Total trading mortgage-backed securities	\$	1	\$	59,019	\$	986	\$	60,006	<b>\$</b> —	\$	60,006
U.S. Treasury and federal agency securities	\$	88,273	\$	2,321	\$	_	\$	90,594	\$	\$	90,594
State and municipal				2,092		3		2,095	_		2,095
Foreign government		56,090		36,045		81		92,216	_		92,216
Corporate		1,695		16,623		581		18,899	_		18,899
Equity securities		55,898		11,400		285		67,583	_		67,583
Asset-backed securities		_		1,560		539		2,099	_		2,099
Other trading assets <sup>(2)</sup>		5		16,613		1,478		18,096	_		18,096
Total trading non-derivative assets	\$	201,962	\$	145,673	\$	3,953	\$	351,588	s —	\$	351,588
Trading derivatives											
Interest rate contracts	\$	21	\$	166,402	\$	2,271	\$	168,694			
Foreign exchange contracts				158,360		1,496		159,856			
Equity contracts		31		45,762		1,292		47,085			
Commodity contracts				15,418		1,108		16,526			
Credit derivatives		—		9,984		855		10,839			
Total trading derivatives—before netting and collateral	\$	52	\$	395,926	\$	7,022	\$	403,000			
Netting agreements									\$ (312,754)		
Netting of cash collateral received									(18,645)		
Total trading derivatives—after netting and collateral	\$	52	\$	395,926	\$	7,022	\$	403,000	\$ (331,399)	\$	71,601
Investments											
Mortgage-backed securities											
U.S. government-sponsored agency guaranteed	\$	_	\$	14,931	\$	32	\$	14,963	<b>\$</b> —	\$	14,963
Residential		_	•	312	-	25	•	337	_		337
Commercial				2		_		2	_		2
Total investment mortgage-backed securities	\$		S	15,245	\$	57	S	15,302	<u>s</u> –	\$	15,302
U.S. Treasury and federal agency securities	\$	81,878		344		21		82,243			82,243
State and municipal	Ψ		Ψ	1,695	Ψ	507	Ψ	2,202	Ψ	Ψ	2,202
Foreign government		50,928		73,928		414		125,270	_		125,270
Corporate		2,590		2,447		290		5,327	_		5,327
Marketable equity securities		164		119		13		296			296
Asset-backed securities				845		13		846	_		846
Other debt securities				6,087		57		6,144	_		6,144
Non-marketable equity securities <sup>(3)</sup>				5		404		409			409
Total investments	\$	135,560	¢	100,715	¢	1,764	¢	238,039	¢	¢.	238,039
	Ð	155,500	ð	100,/15	Φ	1,704	Φ	230,039	φ —	Φ.	230,039

Table continues on the next page.

In millions of dollars at June 30, 2023	Level 1		Level 2	]	Level 3	i	Gross nventory	Netti	ng <sup>(1)</sup>	Net balance
Loans	\$ 	\$	5,525	\$	241	\$	5,766		\$	5,766
Mortgage servicing rights					681		681		_	681
Non-trading derivatives and other financial assets measured on a recurring basis	\$ 5,793	\$	7,771	\$	73	\$	13,637	\$	_\$	13,637
Total assets	\$ 343,367	\$	1,083,784	\$	13,874	\$	1,441,025	\$ (549	<b>,58</b> 7) <mark>:</mark> \$	891,438
Total as a percentage of gross assets <sup>(4)</sup>	23.8%		75.2%		1.0%					
Liabilities										
Interest-bearing deposits	\$ —	\$	2,572	\$	26	\$	2,598	\$	-\$	2,598
Securities loaned and sold under agreements to repurchase	_		213,804		627		214,431	(151	,631)	62,800
Trading account liabilities										
Securities sold, not yet purchased	98,359		16,195		62		114,616			114,616
Other trading liabilities			4		4		8		_!	8
Total trading account liabilities	\$ 98,359	\$	16,199	\$	66	\$	114,624	\$	—\$	114,624
Trading derivatives										
Interest rate contracts	\$ 19	\$	159,959	\$	4,233	\$	164,211			
Foreign exchange contracts	_		152,029		796		152,825			
Equity contracts	27		48,699		2,855		51,581			
Commodity contracts			16,892		778		17,670			
Credit derivatives			9,718		1,010		10,728			
Total trading derivatives—before netting and collateral	\$ 46	\$	387,297	\$	9,672	\$	397,015			
Netting agreements								\$ (312	2,754)	
Netting of cash collateral paid								(28	3,221) <mark>.</mark>	
Total trading derivatives—after netting and collateral	\$ 46	\$	387,297	\$	9,672	\$	397,015	\$ (340	),975) <mark></mark> \$	56,040
Short-term borrowings	\$ 	\$	5,326	\$	296	\$	5,622	\$	—¦\$	5,622
Long-term debt			78,733		37,204		115,937		<u> </u>	115,937
Total non-trading derivatives and other financial liabilities measured on a recurring basis	\$ 5,793	\$	173	\$	23	\$	5,989	\$	\$	5,989
Total liabilities	\$ 104,198	\$	704,104	\$	47,914	\$	856,216	\$ (492	2,606) \$	363,610
Total as a percentage of gross liabilities <sup>(4)</sup>	12.2 %	,	82.2 %		5.6 %	,				

(1) Represents netting of (i) the amounts due under securities purchased under agreements to resell and the amounts owed under securities sold under agreements to repurchase and (ii) derivative exposures covered by a qualifying master netting agreement and cash collateral offsetting.

(2) Includes positions related to investments in unallocated precious metals, as discussed in Note 23. Also includes physical commodities accounted for at the lower of cost or fair value and unfunded credit products.

(3) Amounts exclude \$24 million of investments measured at net asset value (NAV) in accordance with ASU 2015-07, Fair Value Measurement (Topic 820): Disclosures for Investments in Certain Entities That Calculate Net Asset Value per Share (or Its Equivalent).

(4) Because the amount of the cash collateral paid/received has not been allocated to the Level 1, 2 and 3 subtotals, these percentages are calculated based on total assets and liabilities measured at fair value on a recurring basis, excluding the cash collateral paid/received on derivatives.

## Fair Value Levels

In millions of dollars at December 31, 2022	Level 1	Level 2	L	evel 3	i	Gross nventory	Netting <sup>(1)</sup>	Net balance
Assets								
Securities borrowed and purchased under agreements to resell	\$ —	\$ 350,145	\$	149	\$	350,294	\$ (110,767)	\$239,527
Trading non-derivative assets								
Trading mortgage-backed securities								
U.S. government-sponsored agency guaranteed	_	34,878		600		35,478	—	35,478
Residential	1	1,821		166		1,988	—	1,988
Commercial	_	798		145		943	_	943
Total trading mortgage-backed securities	\$ 1	\$ 37,497	\$	911	\$	38,409	\$ —	\$ 38,409
U.S. Treasury and federal agency securities	\$ 63,067	\$ 4,513	\$	1	\$	67,581	\$ —	\$ 67,581
State and municipal	_	2,256		7		2,263	_	2,263
Foreign government	38,383	25,850		119		64,352		64,352
Corporate	1,593	11,955		394		13,942		13,942
Equity securities	43,990	10,179		192		54,361		54,361
Asset-backed securities	_	1,597		668		2,265	_	2,265
Other trading assets <sup>(2)</sup>	24	14,963		648		15,635		15,635
Total trading non-derivative assets	\$ 147,058	\$ 108,810	\$	2,940	\$	258,808	\$ —	\$258,808
Trading derivatives								
Interest rate contracts	\$ 297	\$ 174,156	\$	3,751	\$	178,204		
Foreign exchange contracts	_	186,897		766		187,663		
Equity contracts	20	40,683		1,704		42,407		
Commodity contracts	_	26,823		1,501		28,324		
Credit derivatives	_	7,484		905		8,389		
Total trading derivatives-before netting and collateral	\$ 317	\$ 436,043	\$	8,627	\$	444,987		
Netting agreements							\$ (346,545)	
Netting of cash collateral received <sup>(3)</sup>							(23,136)	
Total trading derivatives—after netting and collateral	\$ 317	\$ 436,043	\$	8,627	\$	444,987	\$ (369,681)	
Investments				-				
Mortgage-backed securities								
U.S. government-sponsored agency guaranteed	\$ 	\$ 11,232	\$	30	\$	11,262	\$ _	\$ 11,262
Residential	_	444		41		485	_	485
Commercial		2		_		2		2
Total investment mortgage-backed securities	\$ 	\$ 11,678	\$	71	\$	11,749	\$ _	\$ 11,749
U.S. Treasury and federal agency securities	\$ 91,851	439				92,290		\$ 92,290
State and municipal		1,637		586		2,223		2,223
Foreign government	58,419	74,250		608		133,277		133,277
Corporate	2,230	2,343		343		4,916	_	4,916
Marketable equity securities	254	165		10		429		429
Asset-backed securities	_	1,029		1		1,030	_	1,030
Other debt securities		4,194				4,194	_	4,194
Non-marketable equity securities <sup>(4)</sup>	_	9		430		439	_	439
Total investments	\$ 152,754	\$ 95,744	\$	2,049	\$	250,547	\$ —	\$250,547

Table continues on the next page.

In millions of dollars at December 31, 2022	Level 1		Level 2	]	Level 3	i	Gross nventory	N	etting <sup>(1)</sup>	Net balance
Loans	\$ 	\$	3,999	\$	1,361	\$	5,360	\$	—	\$ 5,360
Mortgage servicing rights					665		665		—	665
Non-trading derivatives and other financial assets measured on a recurring basis	\$ 4,310	\$	6,291	\$	57	\$	10,658	\$	_	\$ 10,658
Total assets	\$ 304,439	\$1	1,001,032	\$	15,848	\$	1,321,319	\$ (4	480,448)	\$840,871
Total as a percentage of gross assets <sup>(5)</sup>	23.0%		75.8%		1.2%					
Liabilities										
Interest-bearing deposits	\$ _	\$	1,860	\$	15	\$	1,875	\$	—	\$ 1,875
Securities loaned and sold under agreements to repurchase	—		155,822		1,031		156,853		(85,967)	70,886
Trading account liabilities										
Securities sold, not yet purchased	97,559		13,111		50		110,720		—	110,720
Other trading liabilities	—		8		3		11		—	11
Total trading account liabilities	\$ 97,559	\$	13,119	\$	53	\$	110,731	\$	—	\$110,731
Trading derivatives										
Interest rate contracts	\$ 175	\$	169,049	\$	3,396	\$	172,620			
Foreign exchange contracts	_		185,279		716		185,995			
Equity contracts	70		40,905		2,808		43,783			
Commodity contracts	2		25,093		1,223		26,318			
Credit derivatives	_		6,715		1,062		7,777			
Total trading derivatives—before netting and collateral	\$ 247	\$	427,041	\$	9,205	\$	436,493			
Netting agreements								\$ (.	346,545)	
Netting of cash collateral paid <sup>(3)</sup>									(30,032)	
Total trading derivatives-after netting and collateral	\$ 247	\$	427,041	\$	9,205	\$	436,493	\$ (.	376,577)	\$ 59,916
Short-term borrowings	\$ _	\$	6,184	\$	38	\$	6,222	\$	—	\$ 6,222
Long-term debt	_		69,878		36,117		105,995		—	105,995
Total non-trading derivatives and other financial liabilities measured on a recurring basis	\$ 4,197	\$	240	\$	2	\$	4,439	\$	_	\$ 4,439
Total liabilities	\$ 102,003	\$	674,144	\$	46,461	\$	822,608	\$ (	462,544)	\$360,064
Total as a percentage of gross liabilities <sup>(5)</sup>	12.4 %	)	82.0 %	, D	5.6 %	, D				

(1) Represents netting of (i) the amounts due under securities purchased under agreements to resell and the amounts owed under securities sold under agreements to repurchase and (ii) derivative exposures covered by a qualifying master netting agreement and cash collateral offsetting.

(2) Includes positions related to investments in unallocated precious metals, as discussed in Note 23. Also includes physical commodities accounted for at the lower of cost or fair value and unfunded credit products.

(3) Represents the netting of cash collateral paid and received by counterparties under enforceable credit support agreements. Substantially all netting of cash collateral received and paid is against OTC derivative assets and liabilities, respectively.

(4) Amounts exclude \$27 million of investments measured at NAV in accordance with ASU 2015-07, Fair Value Measurement (Topic 820): Disclosures for Investments in Certain Entities That Calculate Net Asset Value per Share (or Its Equivalent).

(5) Because the amount of the cash collateral paid/received has not been allocated to the Level 1, 2 and 3 subtotals, these percentages are calculated based on total assets and liabilities measured at fair value on a recurring basis, excluding the cash collateral paid/received on derivatives.

#### **Changes in Level 3 Fair Value Category**

The following tables present the changes in the Level 3 fair value category for the three and six months ended June 30, 2023 and 2022. The gains and losses presented below include changes in the fair value related to both observable and unobservable inputs.

The Company often hedges positions with offsetting positions that are classified in a different level. For example,

the gains and losses for assets and liabilities in the Level 3 category presented in the tables below do not reflect the effect of offsetting losses and gains on hedging instruments that may be classified in the Level 1 or Level 2 categories. In addition, the Company hedges items classified in the Level 3 category with instruments also classified in Level 3 of the fair value hierarchy. The hedged items and related hedges are presented gross in the following tables:

#### Level 3 Fair Value Rollforward

			et realized/u ains (losses)		Tran	sfers	5									ealized ains
In millions of dollars		r. 31, 023	rincipal insactions	Other <sup>(1)(2)</sup>	into evel 3		t of vel 3	Purchases	Iss	suances	Sales	Settlements		ın. 30, 2023	പ്പ	sses) held <sup>(3)</sup>
Assets			 										1			
Securities borrowed and purchased under agreements to resell	\$	153	\$ (10)	<b>s</b> —	\$ _	\$	(2)	<b>\$</b> —	\$	— :	<b>s</b> —	\$ (1)	); \$	140	\$	(8)
Trading non-derivative assets																
Trading mortgage- backed securities																
U.S. government- sponsored agency guaranteed		658	(32)	_	93		(124)	147		_	(83)	_		659		(24)
Residential		162	(2)		35		(43)	39		_	(46		1	145		(3)
Commercial		163	(10)	_	48		(18)	31		_	(32)		1	182		(7)
Total trading mortgage- backed securities	\$	983	\$ (44)	<b>\$</b> —	\$ 176	\$	(185)	\$ 217	\$	_ :	\$ (161)	• <b>\$</b> —	\$	986	\$	(34)
U.S. Treasury and federal agency securities	\$	1	\$ (1)	<b>\$</b> —	\$ _	\$	_	s —	\$	_ :	s —	s —	\$	_	\$	
State and municipal		23	(1)	_	_			_		—	(19)	) —		3		_
Foreign government		53	(1)	—	8		(2)	49		—	(26)	) —	1	81		(1)
Corporate		296	46	_	196		(51)	256		—	(162)	. —	:	581		88
Marketable equity securities		225	6	_	14		(2)	66		_	(24)	. —		285		5
Asset-backed securities		567	(1)	_	74		(18)	197		—	(280)	• —		539		(5)
Other trading assets		1,094	373		16		(74)	178		_	(109)		1	1,478		378
Total trading non- derivative assets	\$	3,242	\$ 377	<b>\$</b> —	\$ 484	\$	(332)	\$ 963	\$	_ :	\$ (781)	\$ _	\$	3,953	\$	431
Trading derivatives, net <sup>(4)</sup>																
Interest rate contracts	\$	260	\$ (1,550)	<b>\$</b> —	\$ (167)	\$	(669)	\$ (17)	)\$	_ !	\$ 13	\$ 168	\$	(1,962)	\$	(1,486)
Foreign exchange contracts		76	503	_	121		50	27		_	(42)	(35)	)	700		438
Equity contracts	(	1,582)	(486)	_	(16)		572	(7)	)	—	(21)	(23)	)	(1,563)		(494)
Commodity contracts		230	188	—	74		(83)	9		—	(9)	(79)	)	330		18
Credit derivatives		(21)	(154)		(20)		36				_	4	1	(155)		(215)
Total trading derivatives, net <sup>(4)</sup>	\$ (	1,037)	\$ (1,499)	<b>\$</b> —	\$ (8)	\$	(94)	\$ 12	\$	_ :	\$ (59)	\$ 35	\$	(2,650)	\$	(1,739)

Table continues on the next page.

		1	Net realized/ gains (losses	un ) iı	realized ncl. in <sup>(1)</sup>	Tran	sfers											ealized ains
In millions of dollars	ar. 31, 2023		Principal ansactions	(	Other <sup>(1)(2)</sup>	into evel 3	out of Level 3	Pı	urchases	Issuance	es	Sales	Settlen	nents	Jun 20		- dŏ	anns osses) held <sup>(3)</sup>
Investments																		
Mortgage-backed securities																		
U.S. government- sponsored agency guaranteed	\$ 28	\$	_	\$	1	\$ _	s —	\$	4	<b>\$</b> -	_	\$ (1)	\$		\$	32	\$	(1)
Residential	25		_		_	_	_		_	-	_	_		—		25		_
Commercial	—		_		_	—	_		—	-		_		—		_		_
Total investment mortgage-backed securities	\$ 53	\$	_	\$	1	\$ _	s —	\$	4	<b>\$</b> -	_	\$ (1)	\$	_	\$	57	\$	(1)
U.S. Treasury and federal agency securities	\$ 51	\$	_	\$	_	\$ 	s —	\$	_	<b>\$</b> -	_	\$ (30)	\$	_	\$	21	\$	_
State and municipal	521		_		(8)	_	(2)		_	-	_	(4)		—		507		(8)
Foreign government	551		—		7	15	(17)		363	-	_	(505)		—		414		7
Corporate	291		_		(4)	_	_		23	-	_	(20)		—		290		(4)
Marketable equity securities	12		_		1	_	_		_	-		_		_		13		(7)
Asset-backed securities	1		_		_	_	_		_	-	_	_		—		1		_
Other debt securities	4		_		1	—	(5)		57	-		_		—		57		_
Non-marketable equity securities	409		_		(14)	_	_		10	_	_	(1)		_		404		5
Total investments	\$ 1,893	\$	_	\$	(16)	\$ 15	\$ (24)	\$	457	\$ -	_	\$ (561)	\$	_	\$ 1	,764	\$	(8)
Loans	\$ 640	\$	_	\$	(281)	\$ 2	\$ (119)	\$	_	\$ -	_	<b>\$</b> —	\$	(1)	\$	241	\$	(146)
Mortgage servicing rights	658		_		21	_	_		—	1	9	_		(17)		681		22
Other financial assets measured at fair value on a recurring basis	52		_		1	_	(1)		21	-	_	_				73		
Liabilities																		
Interest-bearing deposits	\$ 16	\$	(7)	\$	_	\$ _	s —	\$	_	\$ 1	3	s —	\$	(10)	\$	26	\$	(7)
Securities loaned and sold under agreements to repurchase	809		1		_	_	(24)		511	-		_		(668)		627		1
Trading account liabilities																		
Securities sold, not yet purchased	72		2		_	5	(15)		33	_	_			(31)		62		4
Other trading liabilities	1		_		_	3	_		_	-	_	_		_		4		(1)
Short-term borrowings	281		13		_	19	(11)		—	2	21	_		(1)		296		(4)
Long-term debt	36,581		893		_	2,130	(1,263)		_	80	)8	_		(159)	37	,204		591
Other financial liabilities measured on a recurring basis	20		_		(1)	_	(1)		_		3	_		_		23		(1)

(1) Net realized/unrealized gains (losses) are presented as increase (decrease) to Level 3 assets, and as (increase) decrease to Level 3 liabilities. Changes in fair value of available-for-sale debt securities are recorded in *AOCI*, unless related to credit impairment, while gains and losses from sales are recorded in *Realized gains* (losses) from sales of investments in the Consolidated Statement of Income.

(2) Unrealized gains (losses) on MSRs are recorded in Other revenue in the Consolidated Statement of Income.

(3) Represents the amount of total gains or losses for the period, included in earnings (and AOCI for changes in fair value of available-for-sale debt securities and DVA on fair value option liabilities), attributable to the change in fair value relating to assets and liabilities classified as Level 3 that are still held at June 30, 2023.

(4) Total Level 3 derivative assets and liabilities have been netted in these tables for presentation purposes only.

		vet realized/ gains (losses)			Tran	sfers										Ur	realized gains
In millions of dollars	ec. 31, 2022	Principal ansactions	Oth	er <sup>(1)(2)</sup>	1to vel 3	out Leve		Purcha	ses	Issuan	ces	Sales	Settleme	nts	Jun. 30, 2023	( sti	losses) Il held <sup>(3)</sup>
Assets																	
Securities borrowed and purchased under agreements to resell	\$ 149	\$ 3	\$	_	\$ _	\$	(2)	<b>\$</b> 1	137	\$	_	s —	\$ (1	47)	\$ 140	\$	5
Trading non-derivative assets																	
Trading mortgage- backed securities																	
U.S. government- sponsored agency guaranteed	600	(10)		_	185	(2	266)	3	370		_	(220)		_	659		(35)
Residential	166	(1)		_	61		(62)	1	100		_	(119)			145		(13)
Commercial	145	(15)		_	104		(31)		50		_	(71)			182		(13)
Total trading mortgage- backed securities	\$ 911	\$ (26)	\$	_	\$ 350	\$ (.	359)	\$ 5	520	\$	_	\$ (410)	\$	_	\$ 986	\$	(61)
U.S. Treasury and federal agency securities	\$ 1	\$ (1)	\$	_	\$ _	\$		\$	_	\$	_	s —	\$	_	s —	\$	
State and municipal	7	(3)		_	19		—		—		_	(20)		-1	3		_
Foreign government	119	6		—	8		(27)		61		—	(86)		-!	81		5
Corporate	394	76		_	210	(	178)	3	352		—	(273)		-	581		153
Marketable equity securities	192	9		_	26		(8)		97		_	(31)		_	285		10
Asset-backed securities	668	14		—	79		(81)	3	318		—	(459)		-1	539		_
Other trading assets	648	401		_	261		(76)	4	468		_	(224)	1	<u> </u>	1,478		411
Total trading non- derivative assets	\$ 2,940	\$ 476	\$	_	\$ 953	\$ (	729)	\$ 1,8	816	\$	_	\$ (1,503)	\$	_	\$ 3,953	\$	518
Trading derivatives, net <sup>(4)</sup>																	
Interest rate contracts	\$ 355	\$ (1,689)	\$	_	\$ (202)	\$ (	659)	\$	(13)	\$	_	\$ 13	\$ 2	33	\$ (1,962)	\$	(1,713)
Foreign exchange contracts	50	546		_	104		48	1	102		_	(81)	. (	(69)	700		497
Equity contracts	(1,104)	(878)		—	(67)	ł	806	(2	253)		—	(44)		(23)	(1,563)	)	(624)
Commodity contracts	278	(137)		_	174	2	240		(58)		_	(12)	(1	55)	330		(148)
Credit derivatives	(157)	(146)		_	(3)		136		2		_			13	(155)	)	(203)
Total trading derivatives, net <sup>(4)</sup>	\$ (578)	\$ (2,304)	\$	_	\$ 6	\$	571	\$ (2	220)	\$	_	\$ (124)	\$	(1)	\$ (2,650)	\$	(2,191)

Table continues on the next page.

		Net realized/ gains (losses)			Tran	sfers													realized gains
In millions of dollars	ec. 31, 2022	Principal ransactions	0	)ther <sup>(1)(2)</sup>	into .evel 3	out o Level		Purcha	ases	Issua	nces	Sal	les	Set	tlements		un. 30, 2023	- đ	osses) l held <sup>(3)</sup>
Investments																ł			
Mortgage-backed securities																			
U.S. government- sponsored agency guaranteed	\$ 30	\$ _	\$	(1)	\$ _	<b>\$</b> -		\$	4	\$	_	\$	(1)	\$	_	\$	32	\$	(4)
Residential	41	_		_	_	-	_		—		—		(16)		_	1	25		_
Commercial	_	—		_	_	-	_		—				_		_	1	_		_
Total investment mortgage-backed securities	\$ 71	\$ _	\$	(1)	\$ _	<b>\$</b> -	_	\$	4	\$		\$	(17)	\$	_	\$	57	\$	(4)
U.S. Treasury and federal agency securities	\$ _	\$ _	\$	_	\$ _	<b>\$</b> -	_	\$	51	\$	_	\$	(30)	\$	_	\$	21	\$	_
State and municipal	586	_		9	1	(7	7)		1		—		(13)		—	1	507		5
Foreign government	608	—		5	25	(1	8)		523				(729)		_		414		8
Corporate	343	_		(1)	_	(6	51)		81		—		(72)		—		290		(4)
Marketable equity securities	10	_		3	_	-	_		_		_		_		_		13		_
Asset-backed securities	1	_		—	—	-	_		—		—		—		—		1		—
Other debt securities	—	_		—	_		(5)		62		—		—		—	1	57		
Non-marketable equity securities	430	_		(18)	2	-			16		_		(26)		_		404		5
Total investments	\$ 2,049	\$ —	\$	(3)	\$ 28	\$ (16	51)	\$	738	\$	—	\$	(887)	\$	—	\$	1,764	\$	10
Loans	\$ 1,361	\$ _	\$	(264)	\$ 2	\$ (30	19)	\$	—	\$	106	\$	_	\$	(655)	\$	241	\$	(133)
Mortgage servicing rights	665	_		18	—	-	_		—		31		—		(33)		681		20
Other financial assets measured at fair value on a recurring basis	57	_		(2)	_		(2)		22		_		(2)		_		73		_
Liabilities																:			
Interest-bearing deposits	\$ 15	\$ (7)	\$	(2)	\$ —	\$	(1)	\$	_	\$	13	\$		\$	(10)	\$	26	\$	(7)
Securities loaned and sold under agreements to repurchase	1,031	(6)		_	_	(2	:4)	1,	,335		_		_		(1,721)		627		_
Trading account liabilities																			
Securities sold, not yet purchased	50	(13)		_	11	(3	51)		64		_		_		(45)		62		6
Other trading liabilities	3	2		_	3	-	_		_		_		_		_	ł	4		_
Short-term borrowings	38	40		_	19	(1	6)		—		297		—		(2)		296		(9)
Long-term debt	36,117	(227)		_	3,228	(6,10	6)		_	4	1,344		_		(606)		37,204		964
Other financial liabilities measured on a recurring basis	2	_		1	_		(1)		_		23		_		_		23		(1)

(1) Net realized/unrealized gains (losses) are presented as increase (decrease) to Level 3 assets, and as (increase) decrease to Level 3 liabilities. Changes in fair value of available-for-sale debt securities are recorded in *AOCI*, unless related to credit impairment, while gains and losses from sales are recorded in *Realized gains* (losses) from sales of investments in the Consolidated Statement of Income.

(2) Unrealized gains (losses) on MSRs are recorded in Other revenue in the Consolidated Statement of Income.

(3) Represents the amount of total gains or losses for the period, included in earnings (and AOCI for changes in fair value of available-for-sale debt securities and DVA on fair value option liabilities), attributable to the change in fair value relating to assets and liabilities classified as Level 3 that are still held at June 30, 2023.

(4) Total Level 3 derivative assets and liabilities have been netted in these tables for presentation purposes only.

		Net realized/u gains (losses)		Tran	sfers												ealized
In millions of dollars	ar. 31, 2022	Principal ansactions	Other <sup>(1)(2)</sup>	into evel 3	out of Level		Purchases	Iss	uances	Sa	les	Settlen	aents	Jun. 3 2022		(lo	sses) held <sup>(3)</sup>
Assets													i				
Securities borrowed and purchased under agreements to resell	\$ 202	\$ (12)	\$ —	\$ _	\$ -	- \$	36	\$	_	\$	_	\$	(43)	<b>\$</b> 1	83	\$	(10)
Trading non-derivative assets																	
Trading mortgage-backed securities																	
U.S. government- sponsored agency guaranteed	498	(15)	_	80	(8	9)	318		_		(84)		_	7	08		(19)
Residential	118	_	_	28	(1	1)	47		_		(29)		!	1	53		(4)
Commercial	52	(3)	_	96	(	8)	4		_		(3)		-	1	38		(3)
Total trading mortgage- backed securities	\$ 668	\$ (18)	\$	\$ 204	\$ (10	8) \$	369	\$	_	\$	(116)	\$	_	\$ 9	99	\$	(26)
U.S. Treasury and federal agency securities	\$ 2	\$ _	s —	\$ _	\$ (	1) \$	_	\$	_	\$	_	\$	_	\$	1	\$	_
State and municipal	6	4		71	_	_	_		_		(1)		-1		80		(3)
Foreign government	94	(27)		249	(	1)	57		—		(8)		-1	3	64		(12)
Corporate	1,013	59	_	120	(24	4)	181		—		(592)		-!	5	37		38
Marketable equity securities	199	(9)	_	14	(6	1)	58		_		(68)		_	1	33		(23)
Asset-backed securities	466	(24)	_	82	(10	0)	262		—		(132)		-1	5	54		(26)
Other trading assets	492	79	_	305	(3	0)	117		6		(149)		(4)	8	16		54
Total trading non-derivative assets	\$ 2,940	\$ 64	\$ —	\$ 1,045	\$ (54	5) \$	1,044	\$	6	\$ (1	,066)	\$	(4)	\$ 3,4	84	\$	2
Trading derivatives, net <sup>(4)</sup>																	
Interest rate contracts	\$ 779	\$ 434	\$ _	\$ 141	\$ (27	2) \$	7	\$	6	\$	(6)	\$	(208)	\$ 8	81	\$	473
Foreign exchange contracts	(131)	769	_	34	(5	0)	73		20		(547)		(12)	1	56		126
Equity contracts	(1,564)	1,189	_	(60)	23	2	220		—		(91)		(27)	(1	01)		1,182
Commodity contracts	217	208	_	(74)	8	4	67				(98)		(149)	2	55		246
Credit derivatives	(4)	6		(97)	(16	4)			_		_		(90)	(3	49)		(26)
Total trading derivatives, net <sup>(4)</sup>	\$ (703)	\$ 2,606	\$ _	\$ (56)	\$ (17	0) \$	367	\$	26	\$	(742)	\$	(486)	\$ 8	42	\$	2,001

Table continues on the next page.

		]	Net realized/u gains (losses)	nrealiz incl. in	ed (1)	Tra	ısfe	rs										Unreal gain	
In millions of dollars	ar. 31, 2022	tı	Principal ansactions	Other <sup>(</sup>	1)(2)	into Level 3		out of evel 3	Pur	chases	Issua	ances	Sales	S	ettlements		n. 30, 022	(losse still he	es) eld <sup>(3)</sup>
Investments																			
Mortgage-backed securities																			
U.S. government- sponsored agency guaranteed	\$ 46	\$	_	\$	(2)	\$ —	\$	(10) \$	\$	_	\$	_	\$ (	6) \$	_	\$	28	\$	(2)
Residential	44		—		(4)			—		—		—	-	_	—		40		(4)
Total investment mortgage-backed securities	\$ 90	\$	_	\$	(6)	\$	\$	(10) \$	\$	_	\$	_	\$ (	6) \$	_	\$	68	\$	(6)
U.S. Treasury and federal agency securities	\$ 1	\$	_	\$	(1)	\$ _	\$	_ :	\$	_	\$	_	\$ -	- \$	_	\$	_	\$	_
State and municipal	705		_		(34)	_		(131)		1			(	2)	—		539		(14)
Foreign government	1,029		_		(15)			(54)		202			(16	1)	-		1,001		(16)
Corporate	237		_		(3)	100		—		—		—	-	_	—		334		(1)
Marketable equity securities	16		_		(6)	_		_		_		_	_	_	_		10		(7)
Asset-backed securities	2		_		(1)	_		_		_			-	_	—		1		
Non-marketable equity securities	298		_		2			_		20		_	(1	0)	_		310		(1)
Total investments	\$ 2,378	\$	_	\$	(64)	\$ 100	\$	(195) \$	\$	223	\$	—	\$ (17	9) \$	—	\$	2,263	\$	(45)
Loans	\$ 622	\$	_	\$ (	105)	\$ 1	\$	(193) \$	\$	—	\$	1	\$ -	- \$	(1)	\$	325	\$	(7)
Mortgage servicing rights	520		—		59			—		—		35	-	_	(14)		600		59
Other financial assets measured at fair value on a recurring basis	68		_		4	7		(12)		13		15	_	_	(32)		63		7
Liabilities																			
Interest-bearing deposits	\$ 191	\$	_	\$	7	\$ _	\$	(122) \$	\$	_	\$	17	\$ -	- \$	(61)	\$	18	\$	_
Securities loaned and sold under agreements to repurchase	612		24		_			(3)		16		_	-	_	(8)		593		10
Trading account liabilities																			
Securities sold, not yet purchased	38		(8)		_	10		(4)		30		_		1	(11)		72		(12)
Short-term borrowings	36		1		_	12		(12)		_		69	_	_	(23)		81		2
Long-term debt	27,432		4,719		_	3,335		(2,634)				6,527	_	_	(163)	2	9,778	4	4,232

(1) Net realized/unrealized gains (losses) are presented as increase (decrease) to Level 3 assets, and as (increase) decrease to Level 3 liabilities. Changes in fair value of available-for-sale debt securities are recorded in *AOCI*, unless related to credit impairment, while gains and losses from sales are recorded in *Realized gains* (losses) from sales of investments in the Consolidated Statement of Income.

(2) Unrealized gains (losses) on MSRs are recorded in Other revenue in the Consolidated Statement of Income.

(3) Represents the amount of total gains or losses for the period, included in earnings (and AOCI for changes in fair value of available-for-sale debt securities and DVA on fair value option liabilities), attributable to the change in fair value relating to assets and liabilities classified as Level 3 that are still held at June 30, 2022.

(4) Total Level 3 derivative assets and liabilities have been netted in these tables for presentation purposes only.

		Net realized/u gains (losses)		Tran	sfers													ealized ains
In millions of dollars	ec. 31, 2021	Principal ansactions	Other <sup>(1)(2)</sup>	into evel 3		t of vel 3	Purch	nases	Issi	uances	Sa	les	Settlen	nents	Jun. 3 2022		(10	sses) held <sup>(3)</sup>
Assets														i				
Securities borrowed and purchased under agreements to resell	\$ 231	\$ (1)	\$ —	\$ _	\$	_	\$	124	\$	_	\$	_	\$	(171)	\$ 1	83	\$	(7)
Trading non-derivative assets																		
Trading mortgage-backed securities																		
U.S. government- sponsored agency guaranteed	496	(13)	_	127		(158)		484		_		(228)		_	7	08		(21)
Residential	104	_	_	61		(32)		85		_		(65)		_	1	53		(5)
Commercial	81	(5)	_	97		(34)		9		_		(10)			1	38		(2)
Total trading mortgage- backed securities	\$ 681	\$ (18)	\$ —	\$ 285	\$	(224)	\$	578	\$	_	\$	(303)	\$	_	\$ 9	99	\$	(28)
U.S. Treasury and federal agency securities	\$ 4	\$ (4)	\$	\$ 2	\$	(1)	\$	_	\$	_	\$	_	\$	_	\$	1	\$	
State and municipal	37	5		71		(20)		1		_		(14)		_		80		(5)
Foreign government	23	(26)	_	299		(1)		87		—		(18)		-	3	64		(18)
Corporate	412	68	_	262		(278)		828		—		(755)			5	37		18
Marketable equity securities	174	(14)	_	63		(87)		108		_		(111)		_	1	33		(40)
Asset-backed securities	613	(19)	_	140		(167)		393		—		(406)		-	5	54		(45)
Other trading assets	576	126	_	333		(92)		366		16		(501)		(8)	8	16		75
Total trading non-derivative assets	\$ 2,520	\$ 118	\$ —	\$ 1,455	\$	(870)	\$ 2	2,361	\$	16	\$ (2	,108)	\$	(8)	\$ 3,4	84	\$	(43)
Trading derivatives, net <sup>(4)</sup>																		
Interest rate contracts	\$ 1,726	\$ 600	\$ —	\$ 73	\$	(803)	\$	9	\$	6	\$	(6)	\$	(724)	\$ 8	81	\$	650
Foreign exchange contracts	(89)	1,164	_	(475)		(6)		175		20		(611)		(22)	1	56		235
Equity contracts	(2,140)	1,997	_	(73)		207		405		—		(316)		(181)	(1	01)		1,634
Commodity contracts	422	622	—	(45)		(409)		120		—		(142)		(313)	2	55		410
Credit derivatives	(31)	(57)		(65)		(151)		_				(1)		(44)	(3	49)		(95)
Total trading derivatives, net <sup>(4)</sup>	\$ (112)	\$ 4,326	\$ _	\$ (585)	\$ (1	,162)	\$	709	\$	26	\$ (1	,076)	\$ (	1,284)	\$ 8	42	\$	2,834

Table continues on the next page.

				Net realized/ gains (losses)			Tra	nsf	ers											realized
In millions of dollars	D	ec. 31, 2021	t	Principal ransactions	(	Other <sup>(1)(2)</sup>	into Level 3		out of Level 3	Pu	rchases	Is	ssuances	Sales	Se	ttlements		n. 30, 2022	(1	losses) ll held <sup>(3)</sup>
Investments																				
Mortgage-backed securities																				
U.S. government- sponsored agency guaranteed	\$	51	\$	_	\$	(9) \$	5 1	\$	(10)	\$	4	\$	_	\$ (9)	\$	_	\$	28	\$	(4)
Residential		94		_		(6)			(39)					(9)		—		40		(5)
Total investment mortgage-backed securities	\$	145	\$	_	\$	(15) \$	5 1	\$	(49)	\$	4	\$	_	\$ (18)	\$	_	\$	68	\$	(9)
U.S. Treasury and federal agency securities	\$	1	\$	_	\$	(1) \$	5 —	\$	_	\$	_	\$	_	\$ —	\$	_	\$	_	\$	_
State and municipal		772				(78)	—		(142)		1		—	(14)		—		539		(47)
Foreign government		786		_		(39)	250		(113)		385		—	(268)		—		1,001		(19)
Corporate		188		—		(7)	153		—		—		—	—		—		334		(2)
Marketable equity securities		16		_		(6)	_		_		_		_	_		_		10		(7)
Asset-backed securities		3		_		11					—		—	(13)		—		1		—
Non-marketable equity securities		316		_		(12)	11		_		20		_	(25)		—		310		(1)
Total investments	\$	2,227	\$		\$	(147) \$	415	\$	(304)	\$	410	\$		× /	\$			2,263	\$	(85)
Loans	\$	711	\$	_	\$	(190) \$	5 1	\$	(195)	\$	—	\$	1	\$ —	\$	(3)	\$	325	\$	166
Mortgage servicing rights		404		—		158	_		—		—		69	—		(31)		600		157
Other financial assets measured at fair value on a recurring basis		73		_		7	7		(16)		14		40	(1)		(61)		63		48
Liabilities																				
Interest-bearing deposits	\$	183	\$	—	\$	3 \$	5 7	\$	(122)	\$	—	\$	18	\$ —	\$	(65)	\$	18	\$	_
Securities loaned and sold under agreements to repurchase		643		50		_			(3)		16		_	_		(13)		593		28
Trading account liabilities																				
Securities sold, not yet purchased		65		21		_	35		(19)		83		_	1		(72)		72		(2)
Short-term borrowings		105		89		_	40		(21)		_		76			(30)		81		1
Long-term debt		25,509		8,245		—	6,743		(3,507)		—		9,699	—		(421)	2	9,778		(4,197)
Other financial liabilities measured on a recurring basis		1				1			_				_	_		_				_

(1) Net realized/unrealized gains (losses) are presented as increase (decrease) to Level 3 assets, and as (increase) decrease to Level 3 liabilities. Changes in fair value of available-for-sale debt securities are recorded in *AOCI*, unless related to credit impairment, while gains and losses from sales are recorded in *Realized gains* (losses) from sales of investments in the Consolidated Statement of Income.

(2) Unrealized gains (losses) on MSRs are recorded in Other revenue in the Consolidated Statement of Income.

(3) Represents the amount of total gains or losses for the period, included in earnings (and AOCI for changes in fair value of available-for-sale debt securities and DVA on fair value option liabilities), attributable to the change in fair value relating to assets and liabilities classified as Level 3 that are still held at June 30, 2022.

(4) Total Level 3 derivative assets and liabilities have been netted in these tables for presentation purposes only.

## Level 3 Fair Value Transfers

The following were the significant Level 3 transfers for the period December 31, 2022 to June 30, 2023:

During the three and six months ended June 30, 2023, transfers of Long-term debt were \$2.1 billion and \$3.2 billion from Level 2 to Level 3, respectively. Of the \$3.2 billion transfer, approximately \$2.9 billion related to interest rate option volatility inputs becoming unobservable and/or significant relative to their overall valuation, and \$0.3 billion related to equity and credit derivative inputs (in addition to other volatility inputs, e.g., interest rate volatility inputs) becoming unobservable and/or significant to their overall valuation. In other instances, market changes have resulted in some inputs becoming more observable, and some unobservable inputs becoming less significant to the overall valuation of the instruments (e.g., when an option becomes deep-in or deep-out of the money). This has primarily resulted in \$1.3 billion and \$6.1 billion of certain structured longterm debt products being transferred from Level 3 to Level 2 during the three and six months ended June 30, 2023, respectively.

The following were the significant Level 3 transfers for the period December 31, 2021 to June 30, 2022:

During the three and six months ended June 30, 2022, transfers of Long-term debt were \$3.3 billion and \$6.7 billion, respectively, from Level 2 to Level 3. Of the \$6.7 billion transfer in the six months ended June 30, 2022, approximately \$4.5 billion related to interest rate option volatility inputs becoming unobservable and/or significant relative to their overall valuation, and \$2.2 billion related to equity and credit derivative inputs (in addition to other volatility inputs, e.g., interest rate volatility inputs) becoming unobservable and/or significant to their overall valuation. In other instances, market changes have resulted in some inputs becoming more observable, and some unobservable inputs becoming less significant to the overall valuation of the instruments (e.g., when an option becomes deep-in or deep-out of the money). This has primarily resulted in \$2.6 billion and \$3.5 billion of certain structured long-term debt products being transferred from Level 3 to Level 2 during the three and six months ended June 30, 2022, respectively.

# Valuation Techniques and Inputs for Level 3 Fair Value Measurements

The following tables present the valuation techniques covering the majority of Level 3 inventory and the most significant unobservable inputs used in Level 3 fair value measurements. Differences between this table and amounts presented in the Level 3 Fair Value Rollforward table represent individually immaterial items that have been measured using a variety of valuation techniques other than those listed.

As of June 30, 2023	Fair va (in mili		Methodology	Input	]	Low <sup>(2)(3)</sup>	]	High <sup>(2)(3)</sup>	Weighted average <sup>(4)</sup>
Assets									
Securities borrowed and									
purchased under agreements to resell	\$	140	Model-based	Interest rate		1.23 %		1.23 %	1.23 %
				Credit spread		15 bps		15 bps	15 bps
Mortgage-backed securities	\$	726	Yield analysis	Yield		4.46 %		19.42 %	9.45 %
		310	Price-based	Price	\$	1.11	\$	102.74 \$	53.57
State and municipal, foreign									
government, corporate and other debt securities	\$	2 3/10	Price-based	Price	\$	0.01	\$	114.74 \$	83.15
	φ.	,	Model-based	Credit spread	Φ	35 bps	Φ	508 bps	275 bps
		15	Widdel-based	Forward price		17.46 %		218.96 %	102.59 %
				Commodity volatility		8.79 %		166.93 %	27.52 %
				Commodity correlation		(21.00)%		95.73 %	43.10 %
Marketable equity securities <sup>(5)</sup>	\$	241	Price-based	Price	\$	(21.00)/0		93.73 78	171.81
marketable equity securities	Φ		Model-based	WAL	Φ	3 years	φI	3 years	3 years
		34	Widder-Dased	Recovery (in millions)	\$	7,148	\$	7,148 \$	7,148
Asset-backed securities	\$	163	Price-based	Price	<u> </u>	5.45	\$ \$	140.00 \$	70.87
Asset-Dackeu securities	J.	403	Yield analysis	Yield	φ	6.12 %	•	11.91 %	8.58 %
Non-marketable equities	\$	298				10.00 %		12.00 %	10.08 %
Tion-marketable equities	J.		Cash flow	PE ratio		10.00 %		12.00 76 15.40x	10.08 70 14.23x
		57	Cash now			8.50 %		33.00 %	17.28 %
				Discount to price Revenue multiple		3.70x		13.77x	17.28 76 10.94x
Derivatives—gross <sup>(6)</sup>				Revenue muniple		<b>J.</b> /UX		13.//X	10.943
Interest rate contracts (gross)	\$	6 135	Model-based	IR normal volatility		0.28 %		15.00 %	1.20 %
Interest fate contracts (gross)	UP 1	0,733	Widdel-based	Interest rate		2.57 %		5.24 %	3.13 %
Foreign exchange contracts						2.37 /0		3.24 /0	5.15 /0
Foreign exchange contracts (gross)	\$	1,916	Model-based	IR normal volatility		0.28 %		44.99 %	1.71 %
Equity contracts (gross) <sup>(7)</sup>	\$	4,062	Model-based	Equity volatility		— %		279.49 %	33.30 %
				Equity forward		72.62 %		265.04 %	105.44 %
				Equity-FX correlation		(90.00)%		70.00 %	(11.24)%
				WAL		3 years		3 years	3 years
				Recovery (in millions)	\$	7,148	\$	7,148 \$	7,148
				Equity-IR correlation		(22.00)%		60.00 %	30.04 %
Commodity and other contracts									
(gross)	\$	1,772	Model-based	Commodity correlation		(21.00)%		95.73 %	43.10 %
				Commodity volatility		8.79 %		166.93 %	27.52 %
				Forward price		17.46 %		463.41 %	104.70 %
Credit derivatives (gross)	\$		Model-based	Credit spread		7 bps		520 bps	95 bps
		510	Price-based	Recovery rate		6.00 %		75.00 %	37.52 %
				Credit correlation		30.00 %		90.00 %	50.34 %
				Price	\$	3.66	\$	99.49 \$	36.20
				Upfront points		(0.64)%		99.00 %	54.49 %
Nontrading derivatives and other financial assets and liabilities measured on a recurring basis									
(gross)	\$	95	Price-based	Price	\$	0.01	\$	106.50 \$	87.76

As of June 30, 2023		air value <sup>(1)</sup> in millions)	Methodology	Input		Low	(2)(3)		High <sup>(2)(3)</sup>		Weighted average <sup>(4)</sup>
Loans and leases	\$	234	Price-based	Price		\$6	9.49	\$	106.96	\$	72.06
				Forward price		1′	7.46 %	6	383.18 %	6	109.86 %
				Commodity volatility	y	5	8.79 %	6	166.93 %	6	27.52 %
				Commodity correlati		(21.00)		6	95.73 %	6	43.10 %
Mortgage servicing rights	\$	597	Cash flow	Yield			_ %		12.00 %	6	5.12 %
	+		Model-based	WAL		3.84	year		9.17 years		7.71 years
Liabilities		00	niouer oused			0.01	year	5	Jui year	,	/// jears
Interest-bearing deposits	\$	26	Model-based	Forward price		10	).00 %	6	100.00 %	6	100.00 %
Securities loaned and sold under	φ	20	Wodel-based	r or ward price		10	<b>J.00</b> /	0	100.00 /	0	100.00 /0
agreements to repurchase	\$	627	Model-based	Interest rate		é	3.96 %	/o	5.53 %	6	4.24 %
Trading account liabilities											
Securities sold, not yet purchased and other trading liabilities	\$	60	Price-based	Price		\$	_	\$	10,616	\$	72
Short-term borrowings and long- term debt	\$	37,378	Model-based	IR normal volatility			).28 %	6	13.00 %	6	1.07 %
As of December 31, 2022		r value <sup>(1)</sup> millions)	Methodology	Input		Low <sup>(2)(3)</sup>		Hig	h <sup>(2)(3)</sup>	V a	Veighted verage <sup>(4)</sup>
Assets											
Securities borrowed and											
purchased under agreements to	¢	140	M. 1.11	Constitution 1		161			15 1		151
resell	\$	140	Model-based	Credit spread		15 bj			15 bps		15 bps
Madaa a bada baa aiti a	¢	229	Dulas hand	Interest rate	¢	2.61			2.61 % 99.71 \$		2.61 %
Mortgage-backed securities	\$		Price-based	Price Yield	\$	1.04 4.41	\$		99.71 \$ 20.30 %		51.51
State and municipal families		132	Yield analysis	I ICIU		4.41	/0		20.30 70		9.74 %
State and municipal, foreign government, corporate and other debt securities	\$	2,360	Price-based	Price	\$	0.01	\$	9	994.68 \$		245.85
Marketable equity securities <sup>(5)</sup>	\$	147	Price-based	Price	\$		\$	9,0	)87.76 \$		114.29
		31	Model-based	WAL		2.24 yea	rs	2.	24 years		2.24 years
				Recovery (in millions)	\$	7,148	\$		7,148 \$		7,148
Asset-backed securities	\$	304	Price-based	Price	\$	10.50	\$	1	45.00 \$		74.97
		308	Yield analysis	Yield		5.76	%		18.58 %		9.34 %
Non-marketable equities	\$	287	Comparables analysis	Illiquidity discount		8.60	%		17.00 %		10.16 %
•			Price-based	PE ratio		14.00	)x		15.70x		15.16x
				Cost of capital		8.10			17.50 %		10.44 %
				Revenue multiple		3.60			13.90x		12.40x
Derivatives—gross <sup>(6)</sup>				F							
Interest rate contracts (gross)	\$	7,108	Model-based	IR normal volatility		0.33	%		1.82 %		0.96 %
Foreign exchange contracts		.,									
(gross)	\$	1,437	Model-based	IR normal volatility		0.33	%		1.47 %		0.67 %
				IR basis		(4.23)			9.68 %		(0.03)%
				Equity volatility		0.05	%	3	300.72 %		33.91 %
				Credit spread		116 bj			626 bps		594 bps
Equity contracts (gross) <sup>(7)</sup>	\$	4,430	Model-based	Equity volatility		0.05			300.72 %		41.47 %
				Equity forward		68.34	%	2	271.61 %		103.50 %
				Equity-FX correlation		(95.00)	%		50.00 %		(16.33)%
				Equity-Equity correlation		(3.98)			98.68 %		85.63 %
				WAL		2.24 yea		2.	24 years		2.24 years
				Recovery (in millions)	\$	7,148	\$		7,148 \$		7,148
				Equity-IR correlation		(18.83)	%		60.00 %		32.37 %

Commodity and other contracts	¢	0.704	N 1 1 1 1	<b>P</b> 1 .		14.07.0/	205 50 0/	106.00.0/
(gross)	\$	2,724	Model-based	Forward price		14.27 %	385.50 %	106.08 %
				Commodity volatility		10.43 %	151.50 %	33.55 %
				Commodity correlation		(32.00)%	91.94 %	36.70 %
Credit derivatives (gross)	\$	1,520	Model-based	Credit spread		2.50 bps	955.10 bps	101.27 bps
		439	Price-based	Recovery rate		25.00 %	75.00 %	42.27 %
				Credit correlation	Credit correlation		80.00 %	42.38 %
				Price	\$	31.71 \$	99.00 \$	78.75
				Credit spread volatility		35.58 %	64.79 %	40.47 %
Non-trading derivatives and other financial assets and liabilities measured on a recurring basis	¢	57	D.' 1 1	Dia	¢	00.1 <i>C</i> \$	105.22	02.65
(gross)	\$	57	Price-based	Price	\$	80.16 \$	105.32 \$	92.65
Loans and leases	\$	1,059	Model-based	Equity volatility		0.05 %	300.72 %	42.62 %
		304	Price-based	Forward price		14.27 %	324.85 %	105.07 %
				Price	\$	0.01 \$	100.53 \$	84.77
				Equity forward		68.34 %	271.61 %	103.49 %
Mortgage servicing rights	\$	580	Cash flow	Yield		(0.40)%	13.20 %	5.36 %
		84	Model-based	WAL		3.92 years	9.33 years	7.71 years
Liabilities								
Interest-bearing deposits	\$	15	Model-based	Forward price		100.00 %	101.30 %	100.07 %
Securities loaned and sold under agreements to repurchase	\$	970	Model-based	Interest rate		4.01 %	4.97 %	4.07 %
Trading account liabilities								
Securities sold, not yet purchased and other trading liabilities	\$	47	Price-based	Price	\$	— \$	9,087.76 \$	41.22
		6	Model-based	FX volatility		2.00 %	40.00 %	12.85 %
Short-term borrowings and long- term debt	\$	36,155	Model-based	IR normal volatility		0.33 %	1.82 %	0.89 %

(1) The tables above include the fair values for the items listed and may not foot to the total population for each category.

Some inputs are shown as zero due to rounding. (2)

(3) When the low and high inputs are the same, there is either a constant input applied to all positions, or the methodology involving the input applies to only one large position.

Weighted averages are calculated based on the fair values of the instruments. (4)

For equity securities, the price inputs are expressed on an absolute basis, not as a percentage of the notional amount. Both trading and non-trading account derivatives—assets and liabilities—are presented on a gross absolute value basis. (5)

(6)

(7) Includes hybrid products.

#### Items Measured at Fair Value on a Nonrecurring Basis

Certain assets and liabilities are measured at fair value on a nonrecurring basis and, therefore, are not included in the tables above. These include assets measured at cost that have been written down to fair value during the periods as a result of an impairment. These also include non-marketable equity securities that have been measured using the measurement alternative and are either (i) written down to fair value during the periods as a result of an impairment or (ii) adjusted upward or downward to fair value as a result of a transaction observed during the periods for an identical or similar investment in the same issuer. In addition, these assets include loans held-forsale and other real estate owned that are measured at the lower of cost or market value.

The following tables present the carrying amounts of all assets that were still held for which a nonrecurring fair value measurement was recorded:

In millions of dollars	Fair value			Level 2	Level 3		
June 30, 2023							
Loans HFS <sup>(1)</sup>	\$	2,325	\$	761	\$	1,564	
Other real estate owned		3		_		3	
Loans <sup>(2)</sup>		170		_		170	
Non-marketable equity securities measured using the measurement							
alternative		48		—		48	
Total assets at fair value on a nonrecurring basis	\$	2,546	\$	761	\$	1,785	

In millions of dollars	Fair value			Level 2	Level 3		
December 31, 2022							
Loans HFS <sup>(1)</sup>	\$	2,336	\$	457	\$	1,879	
Other real estate owned		1		—		1	
Loans <sup>(2)</sup>		69		—		69	
Non-marketable equity securities measured using the measurement							
alternative		597		_		597	
Total assets at fair value on a nonrecurring basis	\$	3,003	\$	457	\$	2,546	

(1) Net of mark-to-market amounts on the unfunded portion of loans HFS recognized as *Other liabilities* on the Consolidated Balance Sheet.

(2) Represents impaired loans held for investment whose carrying amount is based on the fair value of the underlying collateral less costs to sell, primarily real estate.

## Valuation Techniques and Inputs for Level 3 Nonrecurring Fair Value Measurements

The following tables present the valuation techniques covering the majority of Level 3 nonrecurring fair value measurements and the most significant unobservable inputs used in those measurements:

As of June 30, 2023	Fair value <sup>(1)</sup> (in millions)	Methodology	Input	Low <sup>(2)</sup>	High	Weighted average <sup>(3)</sup>
Loans HFS	\$ 1,55	8 Price-based	Price	\$ 75.00 \$	100.00	\$ 89.85
Other real estate owned	\$	2 Price-based	Appraised value <sup>(4)</sup>	\$ 24,300 \$	666,000	\$ 404,791
Loans <sup>(5)</sup>	\$ 8	6 Recovery analysis	Appraised value <sup>(4)</sup>	\$ 12,000 \$	77,400,786	\$ 42,187,539
	8	3 Price-based				
Non-marketable equity securities measured using the measurement alternative	\$ 3	5 Price-based	Price	\$ 0.10 \$	3.30	\$ 2.25
	1	<b>3</b> Comparable analysis	Revenue multiple	1.20x	10.20x	9.19x
As of December 31, 2022	Fair value <sup>(1)</sup>	Methodology	Input	L ow <sup>(2)</sup>	High	Weighted

As of December 31, 2022	n millions)	Methodology	Input		Low <sup>(2)</sup>	High	average <sup>(3)</sup>
Loans HFS	\$ 1,830	Price-based	Price	\$	0.88	\$ 100.23	\$ 65.91
Other real estate owned	\$ 1	Price-based	Appraised val	ue <sup>(4)</sup> \$	30,000	\$ 441,750	\$ 310,552
Loans <sup>(5)</sup>	\$ 45	Recovery analysis	Appraised val	ue <sup>(4)</sup> \$	12,000	\$ 14,022,820	\$ 3,714,342
	24	Appraised value					
Non-marketable equity securities measured using the measurement alternative	\$ 234	Comparable analysis	Revenue mult	iple	4.95x	73.10x	19.68x
	363	Price-based	Price	\$	0.46	\$ 2,416.43	\$ 557.86

(1) The tables above include the fair values for the items listed and may not foot to the total population for each category.

(2) Some inputs are shown as zero due to rounding.

(3) Weighted averages are calculated based on the fair values of the instruments.

(4) Appraised values are disclosed in whole dollars.

(5) Represents impaired loans held for investment whose carrying amount is based on the fair value of the underlying collateral less costs to sell, primarily real estate.

#### **Nonrecurring Fair Value Changes**

The following table presents total nonrecurring fair value measurements for the period, included in earnings, attributable to the change in fair value relating to assets that were still held:

	Three M	onths Ende	d June 30,	Six Months End	led June 30,
In millions of dollars	2023		2022	2023	2022
Loans HFS	\$	(15) \$	(86)	\$ (26) \$	(223)
Other real estate owned		_	_	_	_
Loans <sup>(1)</sup>		(16)	4	(18)	9
Non-marketable equity securities measured using the measurement alternative		(27)	43	(54)	128
Total nonrecurring fair value gains (losses)	\$	(58) \$	(39)	<b>\$</b> (98) \$	(86)

(1) Represents loans held for investment whose carrying amount is based on the fair value of the underlying collateral less costs to sell, primarily real estate.

## Estimated Fair Value of Financial Instruments Not Carried at Fair Value

The following tables present the carrying value and fair value of Citigroup's financial instruments that are not carried at fair value. The tables below therefore exclude items measured at fair value on a recurring basis presented in the tables above.

	June 30, 2023				Esti	ie		
In billions of dollars	C	arrying value	Estimated fair value	I	Level 1	Level	2 1	Level 3
Assets								
Investments, net of allowance	\$	267.5	\$ 243.6	\$	124.1	\$ 117	.2 \$	2.3
Securities borrowed and purchased under agreements to resell		127.0	127.0		_	127	.0	
Loans <sup>(1)(2)</sup>		637.1	646.9		—	-		646.9
Other financial assets <sup>(2)(3)</sup>		389.0	389.0		279.2	17	.7	92.1
Liabilities								
Deposits	\$	1,317.3	\$ 1,316.3	\$	_	\$ 1,124	.6 \$	191.7
Securities loaned and sold under agreements to repurchase		197.2	197.2		—	197	.2	_
Long-term debt <sup>(4)</sup>		158.6	160.7		—	148	.9	11.8
Other financial liabilities <sup>(5)</sup>		136.7	136.7		_	31	.6	105.1

	December 31, 2022					Estimated fair value					
In billions of dollars	C	Carrying value		timated r value	L	evel 1	L	level 2	Level 3		
Assets											
Investments, net of allowance	\$	274.3	\$	249.2	\$	123.2	\$	123.1	\$ 2.9		
Securities borrowed and purchased under agreements to resell		125.9		125.9		—		125.9	_		
Loans <sup>(1)(2)</sup>		634.5		634.9		_			634.9		
Other financial assets <sup>(2)(3)</sup>		427.1		427.1		320.0		22.0	85.1		
Liabilities											
Deposits	\$	1,364.1	\$	1,345.4	\$	—	\$	1,159.4	\$ 186.0		
Securities loaned and sold under agreements to repurchase		131.6		131.6		—		131.6			
Long-term debt <sup>(4)</sup>		165.6		160.5		_		151.1	9.4		
Other financial liabilities <sup>(5)</sup>		142.4		142.4		—		26.5	115.9		

(1) The carrying value of loans is net of the allowance for credit losses on loans of \$17.5 billion for June 30, 2023 and \$17.0 billion for December 31, 2022. In addition, the carrying values exclude \$0.3 billion and \$0.4 billion of lease finance receivables at June 30, 2023 and December 31, 2022, respectively.

(2) Includes items measured at fair value on a nonrecurring basis.

(3) Includes cash and due from banks, deposits with banks, brokerage receivables, reinsurance recoverables and other financial instruments included in *Other assets* on the Consolidated Balance Sheet, for all of which the carrying value is a reasonable estimate of fair value.

(4) The carrying value includes long-term debt balances under qualifying fair value hedges.

(5) Includes brokerage payables, separate and variable accounts, short-term borrowings (carried at cost) and other financial instruments included in *Other liabilities* on the Consolidated Balance Sheet, for all of which the carrying value is a reasonable estimate of fair value.

The estimated fair values of the Company's corporate unfunded lending commitments at June 30, 2023 and December 31, 2022 were off-balance sheet liabilities of \$8.1 billion and \$13.7 billion, respectively, substantially all of which are classified as Level 3. The Company does not estimate the fair values of consumer unfunded lending commitments, which are generally cancelable by providing notice to the borrower.

#### 23. FAIR VALUE ELECTIONS

The Company may elect to report most financial instruments and certain other items at fair value on an instrument-byinstrument basis with changes in fair value reported in earnings, other than DVA (see below). The election is made upon the initial recognition of an eligible financial asset, financial liability or firm commitment or when certain specified reconsideration events occur. The fair value election may not otherwise be revoked once an election is made. The changes in fair value are recorded in current earnings. Movements in DVA are reported as a component of *AOCI*.

The Company has elected fair value accounting for its mortgage servicing rights (MSRs). See Note 20 for additional details on Citi's MSRs. Additional discussion regarding other applicable areas in which fair value elections were made is presented in Note 22.

The following table presents the changes in fair value of those items for which the fair value option has been elected:

	Changes in fair value—gains (losses)										
		Three Months Ende	ed June 30,	Six Months En	ded June 30,						
In millions of dollars		2023	2022	2023	2022						
Assets											
Securities borrowed and purchased under agreements to resell	\$	(95) \$	(21)	\$ (10) \$	\$ (83)						
Trading account assets		18	(177)	79	(238)						
Loans											
Certain corporate loans		635	(1,523)	326	(1,855)						
Certain consumer loans		(4)	_	1	(1)						
Total loans	\$	631 \$	(1,523)	\$ 327 5	\$ (1,856)						
Other assets											
MSRs	\$	22 \$	60	<b>\$ 19</b> \$	\$ 158						
Certain mortgage loans HFS <sup>(1)</sup>		(18)	(144)	(10)	(330)						
Total other assets	\$	4 \$	(84)	<b>\$</b> 95	\$ (172)						
Total assets	\$	558 \$	(1,805)	\$ 405 \$	\$ (2,349)						
Liabilities											
Interest-bearing deposits	\$	<b>82</b> \$	(168)	\$ (52) \$	\$ (123)						
Securities loaned and sold under agreements to repurchase		49	19	(19)	96						
Trading account liabilities		77	191	152	(449)						
Short-term borrowings <sup>(2)</sup>		230	1,064	88	1,196						
Long-term debt <sup>(2)</sup>		(2,147)	9,642	(6,496)	15,713						
Total liabilities	\$	(1,709) \$	10,748	\$ (6,327) \$	\$ 16,433						

(1) Includes gains (losses) associated with interest rate lock commitments for originated loans for which the Company has elected the fair value option.

(2) Includes DVA that is included in AOCI. See Notes 18 and 22.

#### **Own Debt Valuation Adjustments (DVA)**

Own debt valuation adjustments are recognized on Citi's liabilities for which the fair value option has been elected using Citi's credit spreads observed in the bond market. Changes in fair value of fair value option liabilities related to changes in Citigroup's own credit spreads (DVA) are reflected as a component of *AOCI*. See Note 18 for additional information.

Among other variables, the fair value of liabilities for which the fair value option has been elected (other than nonrecourse debt and similar liabilities) is impacted by the narrowing or widening of the Company's credit spreads.

The estimated changes in the fair value of these nonderivative liabilities due to such changes in the Company's own credit spread (or instrument-specific credit risk) were a loss of \$(837) million and gain of \$2,592 million for the three months ended June 30, 2023 and 2022, respectively, and a loss of \$(1,270) million and gain of \$3,642 million for the six months ended June 30, 2023 and 2022, respectively. Changes in fair value resulting from changes in instrument-specific credit risk were estimated by incorporating the Company's current credit spreads observable in the bond market into the relevant valuation technique used to value each liability as described above.

# The Fair Value Option for Financial Assets and Financial Liabilities

## Selected Portfolios of Securities Purchased Under Agreements to Resell, Securities Borrowed, Securities Sold Under Agreements to Repurchase, Securities Loaned and Certain Uncollateralized Short-Term Borrowings

The Company elected the fair value option for certain portfolios of fixed income securities purchased under agreements to resell and fixed income securities sold under agreements to repurchase, securities borrowed, securities loaned and certain uncollateralized short-term borrowings held primarily by broker-dealer entities in the United States, the United Kingdom and Japan. In each case, the election was made because the related interest rate risk is managed on a portfolio basis, primarily with offsetting derivative instruments that are accounted for at fair value through earnings. Changes in fair value for transactions in these portfolios are recorded in *Principal transactions*. The related interest revenue and interest expense are measured based on the contractual rates specified in the transactions and are reported as *Interest revenue* and *Interest expense* in the Consolidated Statement of Income.

#### Certain Loans and Other Credit Products

Citigroup has also elected the fair value option for certain other originated and purchased loans, including certain unfunded loan products, such as guarantees and letters of credit, executed by Citigroup's lending and trading businesses. None of these credit products are highly leveraged financing commitments. Significant groups of transactions include loans and unfunded loan products that are expected to be either sold or securitized in the near term, or transactions where the economic risks are hedged with derivative instruments, such as purchased credit default swaps or total return swaps where the Company pays the total return on the underlying loans to a third party. Citigroup has elected the fair value option to mitigate accounting mismatches in cases where hedge accounting is complex and to achieve operational simplifications. Fair value was not elected for most lending transactions across the Company.

The following table provides information about certain credit products carried at fair value:

		June 30,	202	3	December 3	31, 2022	
In millions of dollars	Tra	ding assets	]	Loans	Trading assets	Loan	15
Carrying amount reported on the Consolidated Balance Sheet	\$	4,482	\$	5,766	\$ 6,011	\$ 5,3	360
Aggregate unpaid principal balance in excess of (less than) fair value		161		156	167		51
Balance of non-accrual loans or loans more than 90 days past due				2	_		2
Aggregate unpaid principal balance in excess of (less than) fair value for non-accrual loans or loans more than 90 days past due				1	_		_

In addition to the amounts reported above, \$651 million and \$729 million of unfunded commitments related to certain credit products selected for fair value accounting were outstanding as of June 30, 2023 and December 31, 2022, respectively.

Changes in the fair value of funded and unfunded credit products are classified in *Principal transactions* in Citi's Consolidated Statement of Income. Related interest revenue is measured based on the contractual interest rates and reported as *Interest revenue* on *Trading account assets* or loan interest depending on the balance sheet classifications of the credit products. The changes in fair value for the three months ended June 30, 2023 and 2022 due to instrument-specific credit risk totaled to a loss of \$25 million and \$(47) million, respectively. Changes in fair value due to instrument-specific credit risk are estimated based on changes in borrower-specific credit spreads and recovery assumptions.

#### **Certain Investments in Unallocated Precious Metals**

Citigroup invests in unallocated precious metals accounts (e.g., gold, silver, platinum and palladium) as part of its commodity trading activities. Under ASC 815, the investment is bifurcated into a debt host contract and a commodity derivative instrument. Citigroup elects the fair value option for the debt host contract, and reports the contract within *Trading account assets* on the Company's Consolidated Balance Sheet. The total carrying amount of debt host contracts across unallocated precious metals accounts was approximately \$0.6 billion and \$0.3 billion at June 30, 2023 and December 31, 2022, respectively.

As part of its commodity trading activities, Citi trades unallocated precious metals investments and executes forward purchase and forward sale derivative contracts with trading counterparties. When Citi sells an unallocated precious metals investment, Citi's receivable from its depository bank is repaid and Citi derecognizes its investment in the unallocated precious metal. The forward purchase or sale contract with the trading counterparty indexed to unallocated precious metals is accounted for as a derivative, at fair value through earnings.

#### Certain Mortgage Loans Held-for-Sale (HFS)

Citigroup has elected the fair value option for certain purchased and originated prime fixed-rate and conforming adjustable-rate first mortgage loans HFS. These loans are intended for sale or securitization and are hedged with derivative instruments. The Company has elected the fair value option to mitigate accounting mismatches in cases where hedge accounting is complex and to achieve operational simplifications.

The following table provides information about certain mortgage loans HFS carried at fair value:

In millions of dollars	ine 30, De 2023	ecember 31, 2022
Carrying amount reported on the Consolidated Balance Sheet	\$ 1,069 \$	793
Aggregate fair value in excess of (less than) unpaid principal balance	(7)	(10)
Balance of non-accrual loans or loans more than 90 days past due	3	1
Aggregate unpaid principal balance in excess of fair value for non-accrual loans or loans more than 90 days past due	_	_

The changes in the fair values of these mortgage loans are reported in *Other revenue* in the Company's Consolidated Statement of Income. There was no net change in fair value during the six months ended June 30, 2023 and 2022 due to instrument-specific credit risk. Changes in fair value due to instrument-specific credit risk are estimated based on changes in the borrower default, prepayment and recovery forecasts in addition to instrument-specific credit spread. Related interest income continues to be measured based on the contractual interest rates and reported as *Interest revenue* in the Consolidated Statement of Income.

#### Certain Debt Liabilities

The Company has elected the fair value option for certain debt liabilities, because these exposures are considered to be trading-related positions and, therefore, are managed on a fair value basis. These positions are classified as *Long-term debt* or *Short-term borrowings* on the Company's Consolidated Balance Sheet.

The following table provides information about the carrying value of notes carried at fair value, disaggregated by type of risk:

In billions of dollars	June 30, 202	<u>, I</u>	December 31, 2022
Interest rate linked	\$	57.3 \$	53.4
Foreign exchange linked		0.1	0.1
Equity linked		48.9	42.5
Commodity linked		4.8	5.0
Credit linked		4.8	5.0
Total	\$ 1	15.9 \$	106.0

The portion of the changes in fair value attributable to changes in Citigroup's own credit spreads (DVA) is reflected as a component of *AOCI* while all other changes in fair value are reported in *Principal transactions*. Changes in the fair value of these liabilities include accrued interest, which is also included in the change in fair value reported in *Principal transactions*.

The following table provides information about long-term debt carried at fair value:

In millions of dollars	J	une 30, 2023	December 31, 2022
Carrying amount reported on the Consolidated Balance Sheet	\$	115,937	\$ 105,995
Aggregate unpaid principal balance in excess of (less than) fair value		(1,922)	(2,944)

The following table provides information about short-term borrowings carried at fair value:

In millions of dollars	June 30, 2023	Decer	mber 31, 2022
Carrying amount reported on the Consolidated Balance Sheet	\$ 5,622	\$	6,222
Aggregate unpaid principal balance in excess of (less than) fair value	(14)		(9)

#### 24. GUARANTEES AND COMMITMENTS

Citi provides a variety of guarantees and indemnifications to its customers to enhance their credit standing and enable them to complete a wide range of business transactions. For certain contracts meeting the definition of a guarantee, the guarantor must recognize, at inception, a liability for the fair value of the obligation undertaken in issuing the guarantee.

In addition, the guarantor must disclose the maximum potential amount of future payments that the guarantor could be required to make under the guarantee, if there were a total default by the guaranteed parties. The determination of the maximum potential future payments is based on the notional amount of the guarantees without consideration of possible recoveries under recourse provisions or from collateral held or pledged. As such, Citi believes such amounts bear no relationship to the anticipated losses, if any, on these guarantees.

For additional information regarding Citi's guarantees and indemnifications included in the tables below, as well as its other guarantees and indemnifications excluded from these tables, see Note 27 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

The following tables present information about Citi's guarantees at June 30, 2023 and December 31, 2022:

	Maxir	num pote	_		
In billions of dollars at June 30, 2023	· ·	e within /ear	Expire after 1 year	Total amount outstanding	<b>Carrying value</b> <i>(in millions of dollars)</i>
Financial standby letters of credit	\$	21.5	\$ 63.1	\$ 84.6	\$ 780
Performance guarantees		4.7	5.9	10.6	48
Derivative instruments considered to be guarantees		14.8	31.4	46.2	338
Loans sold with recourse		0.6	1.2	1.8	13
Securities lending indemnifications <sup>(1)</sup>		108.6	—	108.6	—
Credit card merchant processing <sup>(2)</sup>		128.3	_	128.3	1
Credit card arrangements with partners		0.1	0.4	0.5	6
Other		1.2	8.4	9.6	41
Total	\$	279.8	\$ 110.4	\$ 390.2	\$ 1,227

	Ma	aximum poten			
In billions of dollars at December 31, 2022		ire within I year	Expire after 1 year	Total amount outstanding	Carrying value (in millions of dollars)
Financial standby letters of credit	\$	31.3 \$	58.3	\$ 89.6	\$ 905
Performance guarantees		6.1	5.6	11.7	65
Derivative instruments considered to be guarantees		18.5	30.0	48.5	353
Loans sold with recourse		_	1.7	1.7	13
Securities lending indemnifications <sup>(1)</sup>		95.9	—	95.9	—
Credit card merchant processing <sup>(2)</sup>		129.6	—	129.6	1
Credit card arrangements with partners		_	0.6	0.6	7
Other		0.1	8.4	8.5	32
Total	\$	281.5 \$	104.6	\$ 386.1	\$ 1,376

(1) The carrying values of securities lending indemnifications were not material for either period presented, as the probability of potential liabilities arising from these guarantees is minimal.

(2) At June 30, 2023 and December 31, 2022, this maximum potential exposure was estimated to be approximately \$128 billion and \$130 billion, respectively. However, Citi believes that the maximum exposure is not representative of the actual potential loss exposure based on its historical experience. This contingent liability is unlikely to arise, as most products and services are delivered when purchased and amounts are refunded when items are returned to merchants.

#### Loans Sold with Recourse

Loans sold with recourse represent Citi's obligations to reimburse the buyers for loan losses under certain circumstances. Recourse refers to the clause in a sales agreement under which a seller/lender will fully reimburse the buyer/investor for any losses resulting from the purchased loans. This may be accomplished by the sellers taking back any loans that become delinquent.

In addition to the amounts presented in the tables above, Citi has recorded a repurchase reserve for its potential repurchases or make-whole liability regarding residential mortgage representation and warranty claims related to its whole loan sales to U.S. government-sponsored agencies and, to a lesser extent, private investors. The repurchase reserve was approximately \$10 million and \$10 million at June 30, 2023 and December 31, 2022, respectively, and these amounts are included in *Other liabilities* on the Consolidated Balance Sheet.

#### **Credit Card Arrangements with Partners**

Citi, in one of its credit card partner arrangements, provides guarantees to the partner regarding the volume of certain customer originations during the term of the agreement. To the extent that such origination targets are not met, the guarantees serve to compensate the partner for certain payments that otherwise would have been generated in connection with such originations.

#### **Other Guarantees and Indemnifications**

#### **Credit Card Protection Programs**

Citi, through its credit card businesses, provides various cardholder protection programs on several of its card products, including programs that provide insurance coverage for rental cars, coverage for certain losses associated with purchased products, price protection for certain purchases and protection for lost luggage. These guarantees are not included in the table, since the total outstanding amount of the guarantees and Citi's maximum exposure to loss cannot be quantified. The protection is limited to certain types of purchases and losses, and it is not possible to quantify the purchases that would qualify for these benefits at any given time. Citi assesses the probability and amount of its potential liability related to these programs based on the extent and nature of its historical loss experience. At June 30, 2023 and December 31, 2022, the actual and estimated losses incurred and the carrying value of Citi's obligations related to these programs were immaterial.

## Value-Transfer Networks (Including Exchanges and Clearing Houses) (VTNs)

Citi is a member of, or shareholder in, hundreds of valuetransfer networks (VTNs) (payment, clearing and settlement systems as well as exchanges) around the world. As a condition of membership, many of these VTNs require that members stand ready to pay a pro rata share of the losses incurred by the organization due to another member's default on its obligations. Citi's potential obligations may be limited to its membership interests in the VTNs, contributions to the VTN's funds, or, in certain narrow cases, to the full pro rata share. The maximum exposure is difficult to estimate as this would require an assessment of claims that have not yet occurred; however, Citi believes the risk of loss is remote given historical experience with the VTNs. Accordingly, Citi's participation in VTNs is not reported in the guarantees tables above, and there are no amounts reflected on the Consolidated Balance Sheet as of June 30, 2023 or December 31, 2022 for potential obligations that could arise from Citi's involvement with VTN associations.

#### Long-Term Care (LTC) Insurance Indemnification

Citi has an indemnification contingency to Brighthouse Financial in connection with Citi's sale of an insurance subsidiary. A liability under this indemnification agreement is currently remote because Brighthouse Financial would become responsible for LTC policyholder claims only when both the reinsurance provided by other parties ceases and trust assets set aside to meet these claims are not adequate. However, should events occur causing both the reinsurance protection and trust collateral to become insufficient to cover Brighthouse Financial's LTC policyholder claims, Citi will be required to either estimate and disclose a reasonably possible loss or range of loss to the extent that such an estimate can be made, or to accrue for such liability if the event becomes probable and estimable. Citi continues to closely monitor its potential exposure under this indemnification obligation. For additional information, see Note 27 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

#### **Futures and Over-the-Counter Derivatives Clearing**

Citi provides clearing services on central clearing parties (CCP) for clients that need to clear exchange-traded and overthe-counter (OTC) derivatives contracts with CCPs. Based on all relevant facts and circumstances, Citi has concluded that it acts as an agent for accounting purposes in its role as clearing member for these client transactions. As such, Citi does not reflect the underlying exchange-traded or OTC derivatives contracts in its Consolidated Financial Statements. See Note 21 for a discussion of Citi's derivatives activities that are reflected in its Consolidated Financial Statements.

As a clearing member, Citi collects and remits cash and securities collateral (margin) between its clients and the respective CCP. In certain circumstances, Citi collects a higher amount of cash (or securities) from its clients than it needs to remit to the CCPs. This excess cash is then held at depository institutions such as banks or carry brokers.

There are two types of margin: initial and variation. Where Citi obtains benefits from or controls cash initial margin (e.g., retains an interest spread), cash initial margin collected from clients and remitted to the CCP or depository institutions is reflected within *Brokerage payables* (payables to customers) and *Brokerage receivables* (receivables from brokers, dealers and clearing organizations) or *Cash and due from banks*, respectively.

However, for exchange-traded and OTC-cleared derivatives contracts where Citi does not obtain benefits from or control the client cash balances, the client cash initial margin collected from clients and remitted to the CCP or depository institutions is not reflected on Citi's Consolidated Balance Sheet. These conditions are met when Citi has contractually agreed with the client that (i) Citi will pass through to the client all interest paid by the CCP or depository institutions on the cash initial margin, (ii) Citi will not utilize its right as a clearing member to transform cash margin into other assets, (iii) Citi does not guarantee and is not liable to the client for the performance of the CCP or the depository institution and (iv) the client cash balances are legally isolated from Citi's bankruptcy estate. The total amount of cash initial margin collected and remitted in this manner was approximately \$18.3 billion and \$18.0 billion as of June 30, 2023 and December 31, 2022, respectively.

Variation margin due from clients to the respective CCP, or from the CCP to clients, reflects changes in the value of the client's derivative contracts for each trading day. As a clearing member, Citi is exposed to the risk of non-performance by clients (e.g., failure of a client to post variation margin to the CCP for negative changes in the value of the client's derivative contracts). In the event of non-performance by a client, Citi would move to close out the client's positions. The CCP would typically utilize initial margin posted by the client and held by the CCP, with any remaining shortfalls required to be paid by Citi as clearing member. Citi generally holds incremental cash or securities margin posted by the client, which would typically be expected to be sufficient to mitigate Citi's credit risk in the event the client fails to perform.

As required by ASC 860-30-25-5, securities collateral posted by clients is not recognized on Citi's Consolidated Balance Sheet.

#### **Carrying Value—Guarantees and Indemnifications**

At June 30, 2023 and December 31, 2022, the total carrying amounts of the liabilities related to the guarantees and indemnifications included in the tables above amounted to approximately \$1.2 billion and \$1.4 billion, respectively. The carrying value of financial and performance guarantees is included in *Other liabilities*. For loans sold with recourse, the carrying value of the liability is included in *Other liabilities*.

#### Collateral

Cash collateral available to Citi to reimburse losses realized under these guarantees and indemnifications amounted to \$51.5 billion and \$51.8 billion at June 30, 2023 and December 31, 2022, respectively. Securities and other marketable assets held as collateral amounted to \$73.4 billion and \$63.7 billion at June 30, 2023 and December 31, 2022, respectively. The majority of collateral is held to reimburse losses realized under securities lending indemnifications. In addition, letters of credit in favor of Citi held as collateral amounted to \$3.0 billion and \$3.7 billion at June 30, 2023 and December 31, 2022, respectively. Other property may also be available to Citi to cover losses under certain guarantees and indemnifications; however, the value of such property has not been determined.

### **Performance Risk**

Presented in the tables below are the maximum potential amounts of future payments that are classified based on internal and external credit ratings. The determination of the maximum potential future payments is based on the notional amount of the guarantees without consideration of possible recoveries under recourse provisions or from collateral held or pledged. As such, Citi believes such amounts bear no relationship to the anticipated losses, if any, on these guarantees.

	 Maximum potential amount of future payments							
In billions of dollars at June 30, 2023	Investment grade	Non- investment grade	Not rated	Total				
Financial standby letters of credit	\$ 73.0	\$ 10.1 <b>\$</b>	1.5	\$ 84.6				
Loans sold with recourse	_		1.8	1.8				
Other	1.1	8.5	_	9.6				
Total	\$ 74.1	\$ 18.6 \$	3.3	\$ 96.0				

	Maximum potential amount of future payments						
In billions of dollars at December 31, 2022		Investment grade	ir	Non- ivestment grade	Not rated	Total	
Financial standby letters of credit	\$	77.9	\$	10.4 \$	1.3	\$	89.6
Loans sold with recourse		_			1.7		1.7
Other		_		8.5	_		8.5
Total	\$	77.9	\$	18.9 \$	3.0	\$	99.8

## **Credit Commitments and Lines of Credit**

The table below summarizes Citigroup's credit commitments:

In millions of dollars	U.S.	Outside of U.S. <sup>(1)</sup>	June 30, 2023	December 31, 2022
Commercial and similar letters of credit	\$ 457	\$ 4,412 \$	4,869	\$ 5,316
One- to four-family residential mortgages	1,728	849	2,577	2,394
Revolving open-end loans secured by one- to four-family residential properties	5,656	668	6,324	6,380
Commercial real estate, construction and land development	13,399	1,596	14,995	15,170
Credit card lines	612,136	76,513	688,649	683,232
Commercial and other consumer loan commitments	199,231	108,309	307,540	297,399
Other commitments and contingencies	5,333	272	5,605	5,673
Total	\$ 837,940	\$ 192,619 \$	1,030,559	\$ 1,015,564

(1) Consumer commitments related to the business HFS countries under sales agreements are reflected in their original categories until the respective sales are completed.

The majority of unused commitments are contingent upon customers maintaining specific credit standards. Commercial commitments generally have floating interest rates and fixed expiration dates and may require payment of fees. Such fees (net of certain direct costs) are deferred and, upon exercise of the commitment, amortized over the life of the loan or, if exercise is deemed remote, amortized over the commitment period.

#### **Other Commitments and Contingencies**

Other commitments and contingencies include all other transactions related to commitments and contingencies not reported on the lines above.

## Unsettled Reverse Repurchase and Securities Borrowing Agreements and Unsettled Repurchase and Securities Lending Agreements

In addition, in the normal course of business, Citigroup enters into reverse repurchase and securities borrowing agreements, as well as repurchase and securities lending agreements, which settle at a future date. At June 30, 2023 and December 31, 2022, Citigroup had approximately \$150.4 billion and \$111.6 billion of unsettled reverse repurchase and securities borrowing agreements, and approximately \$117.5 billion and \$37.3 billion of unsettled repurchase and securities lending agreements, respectively. See Note 10 for a further discussion of securities purchased under agreements to resell and securities borrowed, and securities sold under agreements to repurchase and securities loaned, including the Company's policy for offsetting repurchase and reverse repurchase agreements.

#### **Restricted Cash**

Citigroup defines restricted cash (as cash subject to withdrawal restrictions) to include cash deposited with central banks that must be maintained to meet minimum regulatory requirements, and cash set aside for the benefit of customers or for other purposes such as compensating balance arrangements or debt retirement. Restricted cash may include minimum reserve requirements at certain central banks and cash segregated to satisfy rules regarding the protection of customer assets as required by Citigroup broker-dealers' primary regulators, including the SEC, the Commodity Futures Trading Commission and the United Kingdom's Prudential Regulation Authority.

Restricted cash is included on the Consolidated Balance Sheet within the following balance sheet lines:

In millions of dollars	J	une 30, 2023	December 31 2022		
Cash and due from banks	\$	3,860	\$	4,820	
Deposits with banks, net of allowance		12,262		12,156	
Total	\$	16,122	\$	16,976	

In addition to the restricted cash amounts presented above, at June 30, 2023 and December 31, 2022, approximately \$2.8 billion and \$1.8 billion, respectively, was held at the Deposit Insurance Agency and Russia National Settlements Depository and was subject to restrictions imposed by the Russian government. These restricted amounts are reported within *Other assets* on the Consolidated Balance Sheet.

## **25. LEASES**

The Company's operating leases, where Citi is a lessee, include real estate, such as office space and branches, and various types of equipment. These leases may contain renewal and extension options and early termination features; however, these options do not impact the lease term unless the Company is reasonably certain that it will exercise options. These leases have a weighted-average remaining lease term of approximately six years as of June 30, 2023.

For additional information regarding Citi's leases, see Notes 1 and 28 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

The following table presents information on the right-ofuse (ROU) asset and lease liabilities included in *Premises and equipment* and *Other liabilities*, respectively:

In millions of dollars	June 30, 2023	December 31, 2022		
ROU asset	\$ 2,827	\$	2,892	
Lease liability	3,016		3,076	

The Company recognizes fixed lease costs on a straightline basis throughout the lease term in the Consolidated Statement of Income. In addition, variable lease costs are recognized in the period in which the obligation for those payments is incurred.

#### **26. CONTINGENCIES**

The following information supplements and amends, as applicable, the disclosure in Note 25 to the Consolidated Financial Statements in Citi's First Quarter 2023 Form 10-Q and in Note 29 to the Consolidated Financial Statements in Citi's 2022 Form 10-K. For purposes of this Note, Citigroup, its affiliates and subsidiaries and current and former officers, directors, and employees, are sometimes collectively referred to as Citigroup and Related Parties.

In accordance with ASC 450, Citigroup establishes accruals for contingencies, including any litigation, regulatory, or tax matters disclosed herein, when Citigroup believes it is probable that a loss has been incurred and the amount of the loss can be reasonably estimated. Once established, accruals are adjusted from time to time, as appropriate, in light of additional information. The amount of loss ultimately incurred in relation to those matters may be substantially higher or lower than the amounts accrued for those matters. With respect to previously incurred loss contingencies for which recovery is expected, Citi applies loss recovery accounting when disputes and uncertainties affecting recognition are resolved.

If Citigroup has not accrued for a matter because the matter does not meet the criteria for accrual (as set forth above), or Citigroup believes an exposure to loss exists in excess of the amount accrued for a particular matter, in each case assuming a material loss is reasonably possible but not probable, Citigroup discloses the matter. In addition, for such matters, Citigroup discloses an estimate of the aggregate reasonably possible loss or range of loss in excess of the amounts accrued for those matters for which an estimate can be made. At June 30, 2023, Citigroup estimates that the reasonably possible unaccrued loss for these matters ranges up to approximately \$1.3 billion in the aggregate.

As available information changes, the matters for which Citigroup is able to estimate will change, and the estimates themselves will change. In addition, while many estimates presented in financial statements and other financial disclosures involve significant judgment and may be subject to significant uncertainty, estimates of the range of reasonably possible loss arising from litigation, regulatory, tax, or other matters are subject to particular uncertainties. For example, at the time of making an estimate, Citigroup may only have preliminary or incomplete information about the facts underlying the claim; its assumptions about the future rulings of the court or other tribunal on significant issues, or the behavior and incentives of adverse parties, regulators, or tax authorities may prove to be wrong; and the outcomes it is attempting to predict are often not amenable to the use of statistical or other quantitative analytical tools. In addition, from time to time an outcome may occur that Citigroup had not accounted for in its estimates because it had deemed such an outcome to be remote. For all these reasons, the amount of loss in excess of amounts accrued in relation to matters for which an estimate has been made could be substantially higher or lower than the range of loss included in the estimate.

Subject to the foregoing, it is the opinion of Citigroup's management, based on current knowledge and after taking into account its current accruals, that the eventual outcome of all

matters described in this Note would not be likely to have a material adverse effect on the consolidated financial condition of Citigroup. Nonetheless, given the substantial or indeterminate amounts sought in certain of these matters and the inherent unpredictability of such matters, an adverse outcome in certain of these matters could, from time to time, have a material adverse effect on Citigroup's consolidated results of operations or cash flows in particular quarterly or annual periods.

For further information on ASC 450 and Citigroup's accounting and disclosure framework for contingencies, including for any litigation, regulatory, and tax matters disclosed herein, see Note 29 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

#### **FDIC Special Assessment**

On May 11, 2023, the FDIC issued a notice of proposed rulemaking that would implement a special assessmentprimarily upon large banks-to recover the uninsured deposit losses from the failures of Silicon Valley Bank and Signature Bank. The FDIC estimated that of the cost of the failures of Silicon Valley Bank and Signature Bank, approximately \$15.8 billion was attributable to the protection of uninsured depositors, an estimate that will be periodically adjusted. The FDIC has proposed collecting the special assessment at an annual rate of approximately 12.5 basis points of uninsured deposits over eight quarterly assessment periods beginning in 2024. There is sufficient uncertainty around the final FDIC regulation that would impact both the timing and amount. If the final rule for the FDIC special assessment is enacted as proposed, which is expected before the end of 2023, Citi estimates that the impact would be significant, potentially a pretax charge of up to \$1.5 billion. This amount is not included in the reasonably possible loss estimate above.

#### **Foreign Exchange Matters**

Antitrust and Other Litigation: On May 23, 2023, in ALLIANZ GLOBAL INVESTORS GMBH AND OTHERS v. BARCLAYS BANK PLC AND OTHERS, the High Court of Justice in London formally discontinued the case in light of a March 29, 2023 settlement agreement. Additional information concerning this action is publicly available in court filings under the case number CL-2018-000840 in the High Court and under the case number 1430/5/7/22 (T) in the Competition Appeal Tribunal.

On May 18, 2023, in ALLIANZ GLOBAL INVESTORS, ET AL. v. BANK OF AMERICA CORP., ET AL., the United States District Court for the Southern District of New York approved a stipulation dismissing all remaining claims in the case with prejudice. Additional information concerning this action is publicly available in court filings under the docket number 18-CV-10364 (S.D.N.Y.) (Schofield, J.).

On July 25, 2023, the English Court of Appeal issued its judgment in MICHAEL O'HIGGINS FX CLASS REPRESENTATIVE LIMITED v. BARCLAYS BANK PLC AND OTHERS and PHILLIP EVANS v. BARCLAYS BANK PLC AND OTHERS on the claimants' appeal from the Competition Appeal Tribunal's March 31, 2022 judgment on certification and directed that the case proceed upon an opt-out basis with Phillip Evans having carriage of the claims. Additional information concerning these actions is publicly available in court filings under the case numbers 1329/7/7/19 and 1336/7/7/19 in the Competition Appeal Tribunal and CA-2022-002002 and CA-2022-002003 in the Court of Appeal.

On April 13, 2023, in NYPL v. JPMORGAN CHASE & CO., ET AL., plaintiffs filed an appeal from the dismissal of the case by the district court to the United States Court of Appeals for the Second Circuit. Additional information concerning this action is publicly available in court filings under the docket numbers 15-CV-2290 (N.D. Cal.) (Chhabria, J.), 15-CV-9300 (S.D.N.Y.) (Schofield, J.), 22-698 (2d Cir.), and 23-619 (2d Cir.).

#### **Madoff-Related Litigation**

On May 5, 2023, in FAIRFIELD SENTRY LTD., ET AL. v. ZURICH CAPITAL MARKETS COMPANY, ET AL, the British Virgin Islands liquidators of Fairfield Sentry Limited voluntarily dismissed the pending claims against Citi (Switzerland) AG and Citivic Nominees Ltd. without prejudice. The claims previously dismissed against Citi (Switzerland) AG and Citivic Nominees Ltd. remain subject to the pending consolidated direct appeal in the United States Court of Appeals for the Second Circuit and are unaffected by the liquidators' voluntary dismissal. Additional information is publicly available in court filings under the docket number 10-3634 (Bankr. S.D.N.Y.) (Mastando, J.).

On July 5, 2023, in FAIRFIELD SENTRY LTD., ET AL. v. CITIGROUP GLOBAL MARKETS LTD., ET AL.; FAIRFIELD SENTRY LTD., ET AL. v. ZURICH CAPITAL MARKETS COMPANY, ET AL.; and FAIRFIELD SENTRY LTD., ET AL. v. CITIBANK NA LONDON, ET AL. the United States Court of Appeals for the Second Circuit granted CGML, Citibank (Switzerland) AG, Citivic Nominees Ltd., and Citibank, NA London leave to appeal the district court's decision permitting a single claim to proceed against them and consolidated the interlocutory appeals with the liquidators' pending consolidated direct appeal. Additional information is publicly available in court filings under the docket numbers 22-2101 (consolidated lead appeal), 23-549, 23-572, 23-573, 23-975, 23-982, and 23-987 (2d Cir.).

#### **Sovereign Securities Matters**

*Regulatory Actions*: On May 24, 2023, the UK Competition & Markets Authority (CMA) announced that it has provisionally found that Citigroup, CGML and four other banks unlawfully shared information related to the buying and selling of British pound sterling-denominated government bonds issued by the United Kingdom. The CMA further announced that Citigroup and CGML applied for leniency and had entered into a settlement agreement with the CMA.

Antitrust and Other Litigation: On June 16, 2023, purchasers of British pound sterling-denominated government bonds issued by the United Kingdom filed a proposed class action against CGMI, CGML and others, captioned OKLAHOMA FIREFIGHTERS PENSION AND RETIREMENT SYSTEM v. DEUTSCHE BANK AKTIENGESELLSCHAFT (F/K/A DEUTSCHE BANK AG), ET AL., in the United States District Court for the Southern District of New York. Plaintiffs allege that defendants engaged in a conspiracy to inflate prices of United Kingdom government bonds in secondary markets. Plaintiffs assert a claim under the Sherman Act and seek treble damages and attorneys' fees. Additional information relating to this action is publicly available in court filings under the docket number 1:23-cv-05095 (JGK).

#### **Settlement Payments**

Payments required in any settlement agreements described above have been made or are covered by existing litigation or other accruals.

#### 27. SUBSIDIARY GUARANTEES

Citigroup Inc. has fully and unconditionally guaranteed the payments due on debt securities issued by Citigroup Global Markets Holdings Inc. (CGMHI), a wholly owned subsidiary, under the Senior Debt Indenture dated as of March 8, 2016, between CGMHI, Citigroup Inc. and The Bank of New York Mellon, as trustee. In addition, Citigroup Capital III and Citigroup Capital XIII (collectively, the Capital Trusts), each of which is a wholly owned finance subsidiary of Citigroup Inc., have issued trust preferred securities. Citigroup Inc. has guaranteed the payments due on the trust preferred securities to the extent that the Capital Trusts have insufficient available funds to make payments on the trust preferred securities. The guarantee, together with Citigroup Inc.'s other obligations with respect to the trust preferred securities, effectively provides a full and unconditional guarantee of amounts due on the trust preferred securities (see Note 17 for additional information). No other subsidiary of Citigroup Inc. guarantees the debt securities issued by CGMHI or the trust preferred securities issued by the Capital Trusts.

Summarized financial information for Citigroup Inc. and CGMHI is presented in the tables below:

#### SUMMARIZED INCOME STATEMENT

		Six Months Ended June 30, 2023						
In millions of dollars	Citigroup pa company		CGMHI					
Total revenues, net of interest expense	\$	5,584 \$	5,960					
Total operating expenses		99	5,911					
Provision for credit losses		_	23					
Equity in undistributed income of subsidiaries		581						
Income (loss) from continuing operations before income taxes	\$	,066 \$	26					
Provision (benefit) for income taxes		(455)	54					
Net income	\$	,521 \$	(28)					

## SUMMARIZED BALANCE SHEET

	June 30, 2023			December 31, 2022		
In millions of dollars		group parent company	CGMHI	Citigroup parent company	CGMHI	
Cash and deposits with banks	\$	3,016 \$	21,506	\$ 3,015 5	\$ 27,122	
Securities borrowed and purchased under resale agreements		_	276,820	_	306,273	
Trading account assets		262	271,512	306	209,957	
Advances to subsidiaries		152,188	_	146,843	_	
Investments in subsidiary bank holding company		175,277		172,721	_	
Investments in non-bank subsidiaries		48,010	_	48,295	_	
Other assets		15,896	171,046	13,788	163,819	
Total assets	\$	394,649 \$	740,884	\$ 384,968	\$ 707,171	
Securities loaned and sold under agreements to repurchase	\$	— \$	292,491	\$ 5	\$ 245,916	
Trading account liabilities		578	114,874	604	115,929	
Short-term borrowings		_	26,731	_	43,850	
Long-term debt		163,043	186,966	166,257	172,068	
Advances from subsidiaries		19,579		14,562	_	
Other liabilities		2,730	81,446	2,356	90,570	
Stockholders' equity		208,719	38,376	201,189	38,838	
Total liabilities and equity	\$	394,649 \$	740,884	\$ 384,968	\$ 707,171	

## UNREGISTERED SALES OF EQUITY SECURITIES, REPURCHASES OF EQUITY SECURITIES AND DIVIDENDS

# Unregistered Sales of Equity Securities

None.

## **Equity Security Repurchases**

All large banks, including Citi, are subject to limitations on capital distributions in the event of a breach of any regulatory capital buffers, including the Stress Capital Buffer, with the degree of such restrictions based on the extent to which the buffers are breached. For additional information, see "Capital Resources—Regulatory Capital Buffers" and "Risk Factors— Strategic Risks" in Citi's 2022 Form 10-K.

The following table summarizes Citi's common share repurchases for the second quarter of 2023:

In millions, except per share amounts	Total shares purchased	Average price paid per share
April 2023		
Open market repurchases <sup>(1)</sup>	— \$	
Employee transactions <sup>(2)</sup>	_	_
May 2023		
Open market repurchases <sup>(1)</sup>	1.1	44.05
Employee transactions <sup>(2)</sup>	_	_
June 2023		
Open market repurchases <sup>(1)</sup>	20.1	47.24
Employee transactions <sup>(2)</sup>	_	_
Total for 2Q23	21.2 \$	47.07

(1) Repurchases not made pursuant to any publicly announced plan or program.

(2) During the second quarter, pursuant to Citigroup's Board of Directors' authorization, Citi withheld an insignificant number of shares of common stock, added to treasury stock, related to activity on employee stock programs to satisfy the employee tax requirements.

As previously announced, Citi will continue to assess common share repurchases on a quarter-by-quarter basis given uncertainty regarding regulatory capital requirements.

## Dividends

Citi paid common dividends of \$0.51 per share for the second quarter of 2023, and on July 20, 2023, declared common dividends of \$0.53 per share for the third quarter of 2023. Citi intends to maintain a quarterly common dividend of at least \$0.53 per share, subject to financial and macroeconomic conditions as well as its Board of Directors' approval.

As discussed above, Citi's ability to pay common stock dividends is subject to limitations on capital distributions in the event of a breach of any regulatory capital buffers, including the Stress Capital Buffer, with the degree of such restrictions based on the extent to which the buffers are breached. For additional information, see "Capital Resources —Regulatory Capital Buffers" and "Risk Factors—Strategic Risks" in Citi's 2022 Form 10-K. Any dividend on Citi's outstanding common stock would also need to be in compliance with Citi's obligations on its outstanding preferred stock.

On July 20, 2023, Citi declared preferred dividends of approximately \$333 million for the third quarter of 2023.

For information on the ability of Citigroup's subsidiary depository institutions to pay dividends, see Note 19 to the Consolidated Financial Statements in Citi's 2022 Form 10-K.

### **OTHER INFORMATION**

During the second quarter of 2023, no director or executive officer of Citi adopted or terminated any Rule 10b5-1 or non-Rule 10b5-1 trading arrangement (each, as defined in Item 408 of Regulation S-K).

## **SIGNATURES**

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, on the 4th day of August, 2023.

## CITIGROUP INC. (Registrant)

- By <u>/s/ Mark A. L. Mason</u> Mark A. L. Mason Chief Financial Officer (Principal Financial Officer)
- By <u>/s/ Johnbull E. Okpara</u> Johnbull E. Okpara Controller and Chief Accounting Officer (Principal Accounting Officer)

## **GLOSSARY OF TERMS AND ACRONYMS**

The following is a list of terms and acronyms that are used in this Quarterly Report on Form 10-Q and other Citigroup SEC filings and presentations.

\* Denotes a Citi metric

**2022 Form 10-K:** Annual Report on Form 10-K for year ended December 31, 2022, filed with the SEC.

**90+ days past due delinquency rate\*:** Represents consumer loans that are past due by 90 or more days, divided by that period's total EOP loans.

**ABS:** Asset-backed securities

ACL: Allowance for credit losses, which is composed of the allowance for credit losses on loans (ACLL), allowance for credit losses on unfunded lending commitments (ACLUC), allowance for credit losses on HTM securities and allowance for credit losses on other assets.

ACLL: Allowance for credit losses on loans

ACLUC: Allowance for credit losses on unfunded lending commitments

Advanced Approaches: The Advanced Approaches capital framework, established through Basel III rules by the FRB, requires certain banking organizations to use an internal ratings-based approach and other methodologies to calculate risk-based capital requirements for credit risk and advanced measurement approaches to calculate risk-based capital requirements for operational risk.

AFS: Available-for-sale

ALCO: Asset Liability Committee

Amortized cost: Amount at which a financing receivable or investment is originated or acquired, adjusted for accretion or amortization of premium, discount, and net deferred fees or costs, collection of cash, charge-offs, foreign exchange, and fair value hedge accounting adjustments. For AFS securities, amortized cost is also reduced by any impairment losses recognized in earnings. Amortized cost is not reduced by the allowance for credit losses, except where explicitly presented net.

AOCI: Accumulated other comprehensive income (loss)

**ARM:** Adjustable rate mortgage(s)

**ASC:** Accounting Standards Codification under GAAP issued by the FASB.

Asia Consumer: Asia Consumer Banking

**ASU:** Accounting Standards Update under GAAP issued by the FASB.

AUC: Assets under custody

**AUM:** Assets under management. Represent assets managed on behalf of Citi's clients.

Available liquidity resources\*: Resources available at the balance sheet date to support Citi's client and business needs, including HQLA assets; additional unencumbered securities,

including excess liquidity held at bank entities that is nontransferable to other entities within Citigroup; and available assets not already accounted for within Citi's HQLA to support Federal Home Loan Bank (FHLB) and Federal Reserve Bank discount window borrowing capacity.

**Basel III:** Liquidity and capital rules adopted by the FRB based on an internationally agreed set of measures developed by the Basel Committee on Banking Supervision.

**Beneficial interests issued by consolidated VIEs:** Represents the interest of third-party holders of debt, equity securities or other obligations, issued by VIEs that Citi consolidates.

**Benefit obligation:** Refers to the projected benefit obligation for pension plans and the accumulated postretirement benefit obligation for OPEB plans.

BHC: Bank holding company

Board: Citigroup's Board of Directors

**Book value per share\*:** EOP common equity divided by EOP common shares outstanding.

**Bps:** Basis points. One basis point equals 1/100th of one percent.

**Branded cards:** Citi's branded cards business with a portfolio of proprietary cards (Double Cash, Custom Cash, ThankYou and Value cards) and co-branded cards (including, among others, American Airlines and Costco).

**Build:** A net increase in ACL through the provision for credit losses.

Cards: Citi's credit cards' businesses or activities.

CCAR: Comprehensive Capital Analysis and Review

CCO: Chief Compliance Officer

**CDS:** Credit default swaps

**CECL:** Current expected credit losses

**CEO:** Chief Executive Officer

**CET1 Capital:** Common Equity Tier 1 Capital. See "Capital Resources—Components of Citigroup Capital" above for the components of CET1.

**CET1 Capital ratio\*:** Common Equity Tier 1 Capital ratio. A primary regulatory capital ratio representing end-of-period CET1 Capital divided by total risk-weighted assets.

CFO: Chief Financial Officer

CFTC: Commodity Futures Trading Commission

CGMHI: Citigroup Global Markets Holdings Inc.

Citi: Citigroup Inc.

Citibank or CBNA: Citibank, N.A. (National Association)

**Classifiably managed:** Loans primarily evaluated for credit risk based on internal risk rating classification.

**Client assets:** Represent assets under management as well as custody, brokerage, administration and deposit accounts.

CLO: Collateralized loan obligations

**Coincident NCL coverage ratio:** A credit metric, representing the ACLL at period end divided by (the most recent quarter's NCLs divided by 3). This ratio is expressed in months of coverage.

**Collateral dependent:** A loan is considered collateral dependent when repayment of the loan is expected to be provided substantially through the operation or sale of the collateral when the borrower is experiencing financial difficulty, including when foreclosure is deemed probable based on borrower delinquency.

**Commercial cards:** Provides a wide range of payment services to corporate and public sector clients worldwide through commercial card products. Services include procurement, corporate travel and entertainment, expense management services and business-to-business payment solutions.

**Consent orders:** In October 2020, Citigroup and Citibank entered into consent orders with the Federal Reserve and OCC that require Citigroup and Citibank to make improvements in various aspects of enterprise-wide risk management, compliance, data quality management and governance and internal controls.

**CRE:** Commercial real estate

**Credit card spend volume\*:** Dollar amount of card customers' gross purchases. Also known as purchase sales.

**Credit cycle:** A period of time over which credit quality improves, deteriorates and then improves again (or vice versa). The duration of a credit cycle can vary from a couple of years to several years.

**Credit derivatives:** Financial instruments whose value is derived from the credit risk associated with the debt of a third-party issuer (the reference entity), which allow one party (the protection purchaser) to transfer that risk to another party (the protection seller).

**Critical Audit Matters:** Audit matters communicated by KPMG to Citi's Audit Committee of the Board of Directors, relating to accounts or disclosures that are material to the Consolidated Financial Statements and involved especially challenging, subjective or complex judgments. See "Report of Independent Registered Public Accounting Firm" in Citi's annual reports on Form 10-K.

**Criticized:** Criticized loans, lending-related commitments and derivative receivables that are classified as special mention, substandard and doubtful categories for regulatory purposes.

## CRO: Chief Risk Officer

**CTA:** Cumulative translation adjustment (also known as currency translation adjustment). A separate component of equity within *AOCI* reported net of tax. For Citi, represents the impact of translating non-USD balance sheet items into USD

each period. The CTA amount in EOP *AOCI* is a cumulative balance, net of tax.

**CVA:** Credit valuation adjustment

**Delinquency managed:** Loans primarily evaluated for credit risk based on delinquencies, FICO scores and the value of underlying collateral.

**Divestiture-related impacts:** Citi's results excluding divestiture-related impacts represent as reported, or GAAP, financial results adjusted for items that are incurred and recognized, which are wholly and necessarily a consequence of actions taken to sell (including through a public offering), dispose of or wind down business activities associated with Citi's announced 14 exit markets.

**Dividend payout ratio\*:** Represents dividends declared per common share as a percentage of net income per diluted share.

**Dodd-Frank Act:** Wall Street Reform and Consumer Protection Act

DPD: Days past due

DSA: Deferred stock awards

DTA: Deferred tax asset

DVA: Debt valuation adjustment

EC: European Commission

Efficiency ratio\*: A ratio signifying how much of a dollar in expenses (as a percentage) it takes to generate one dollar in revenue. Represents total operating expenses divided by total revenues, net.

EMEA: Europe, Middle East and Africa

EOP: End-of-period

**EPS\*:** Earnings per share

ERISA: Employee Retirement Income Security Act of 1974

ESG: Environmental, Social and Governance

ETR: Effective tax rate

EU: European Union

Fannie Mae: Federal National Mortgage Association

FASB: Financial Accounting Standards Board

FCA: Financial Conduct Authority

FDIC: Federal Deposit Insurance Corporation

Federal Reserve: The Board of the Governors of the Federal Reserve System

FFIEC: Federal Financial Institutions Examination Council

FHA: Federal Housing Administration

FHLB: Federal Home Loan Bank

FICO: Fair Issac Corporation

**FICO score:** A measure of consumer credit risk provided by credit bureaus, typically produced from statistical models by Fair Isaac Corporation utilizing data collected by the credit bureaus.

FINRA: Financial Industry Regulatory Authority

Firm: Citigroup Inc.

FRB: Federal Reserve Board

FRBNY: Federal Reserve Bank of New York

Freddie Mac: Federal Home Loan Mortgage Corporation

FTCs: Foreign tax credit carry-forwards

**FVA:** Funding valuation adjustment

FX: Foreign exchange

**FX translation:** The impact of converting non-U.S.-dollar currencies into U.S. dollars.

**G7:** Group of Seven nations. Countries in the G7 are Canada, France, Germany, Italy, Japan, the U.K. and the U.S.

**GAAP or U.S. GAAP:** Generally accepted accounting principles in the United States of America.

Ginnie Mae: Government National Mortgage Association

Global Wealth: Global Wealth Management

GSIB: Global systemically important banks

HELOC: Home equity line of credit

**HFI loans:** Loans that are held-for-investment (i.e., excludes loans held-for-sale).

HFS: Held-for-sale

**HQLA:** High-quality liquid assets. Consist of cash and certain high-quality liquid securities as defined in the LCR rule.

**HTM:** Held-to-maturity

**Hyperinflation:** Extreme economic inflation with prices rising at a very high rate in a very short time. Under U.S. GAAP, entities operating in a hyperinflationary economy need to change their functional currency to the U.S. dollar. Once the change is made, the CTA balance is frozen.

**IBOR:** Interbank Offered Rate

**ICG:** Institutional Clients Group

ICRM: Independent Compliance Risk Management

**IPO:** Initial public offering

**ISDA:** International Swaps and Derivatives Association

**KM:** Key financial and non-financial metric used by management when evaluating consolidated and/or individual business results.

**KPMG LLP:** Citi's Independent Registered Public Accounting Firm.

LATAM: Latin America, which for Citi, includes Mexico.

**LCR:** Liquidity coverage ratio. Represents HQLA divided by net outflows in the period.

LDA: Loss Distribution Approach

LF: Legacy Franchises

LGD: Loss given default

LIBOR: London Interbank Offered Rate

LLC: Limited Liability Company

## LTD: Long-term debt

**LTV:** Loan-to-value. For residential real estate loans, the relationship, expressed as a percentage, between the principal amount of a loan and the appraised value of the collateral (i.e., residential real estate) securing the loan.

**Master netting agreement:** A single agreement with a counterparty that permits multiple transactions governed by that agreement to be terminated or accelerated and settled through a single payment in a single currency in the event of a default (e.g., bankruptcy, failure to make a required payment or securities transfer or deliver collateral or margin when due).

MBS: Mortgage-backed securities

MCA: Manager's control assessment

MD&A: Management's discussion and analysis

**Measurement alternative:** Measures equity securities without readily determinable fair values at cost less impairment (if any), plus or minus observable price changes from an identical or similar investment of the same issuer.

Mexico Consumer: Mexico Consumer Banking

Mexico Consumer/SBMM: Mexico Consumer Banking and Small Business and Middle-Market Banking

Mexico SBMM: Mexico Small Business and Middle-Market Banking

Moody's: Moody's Investors Service

MSRs: Mortgage servicing rights

N/A: Data is not applicable or available for the period presented.

**NAA:** Non-accrual assets. Consists of non-accrual loans and OREO.

**NAL:** Non-accrual loans. Loans for which interest income is not recognized on an accrual basis. Loans (other than credit card loans and certain consumer loans insured by U.S. government-sponsored agencies) are placed on non-accrual status when full payment of principal and interest is not expected, regardless of delinquency status, or when principal and interest have been in default for a period of 90 days or more unless the loan is both well secured and in the process of collection. Collateral-dependent loans are typically maintained on non-accrual status.

NAV: Net asset value

NCL(s): Net credit losses. Represents gross credit losses, less gross credit recoveries.

**NCL ratio\*:** Represents net credit losses (recoveries) (annualized), divided by average loans for the reporting period.

**Net capital rule:** Rule 15c3-1 under the Securities Exchange Act of 1934.

Net interchange income: Includes the following components:

Interchange revenue: Fees earned from merchants based on Citi's credit and debit card customers' sales transactions.

- Reward costs: The cost to Citi for points earned by cardholders enrolled in credit card rewards programs generally tied to sales transactions.
- Partner payments: Payments to co-brand credit card partners based on the cost of loyalty program rewards earned by cardholders on credit card transactions.

**NII:** Net interest income. Represents total interest revenue less total interest expenses.

**NIM\*:** Net interest margin expressed as a yield percentage, calculated as annualized net interest income divided by average interest-earning assets for the period.

NIR: Non-interest revenues

NM: Not meaningful

**Noncontrolling interests:** The portion of an investment that has been consolidated by Citi that is not 100% owned by Citi.

**Non-GAAP financial measure:** Management uses these financial measures because it believes they provide information to enable investors to understand the underlying operational performance and trends of Citi and its businesses.

NSFR: Net stable funding ratio

O/S: Outstanding

OCC: Office of the Comptroller of the Currency

**OCI:** Other comprehensive income (loss)

**OREO:** Other real estate owned

**OTTI:** Other-than-temporary impairment

**Over-the-counter cleared (OTC-cleared) derivatives:** Derivative contracts that are negotiated and executed bilaterally, but subsequently settled via a central clearing house, such that each derivative counterparty is only exposed to the default of that clearing house.

**Over-the-counter (OTC) derivatives:** Derivative contracts that are negotiated, executed and settled bilaterally between two derivative counterparties, where one or both counterparties is a derivatives dealer.

Parent company: Citigroup Inc.

**Participating securities:** Represents unvested share-based compensation awards containing nonforfeitable rights to dividends or dividend equivalents (collectively, "dividends"), which are included in the earnings per share calculation using the two-class method. Citi grants RSUs to certain employees under its share-based compensation programs, which entitle the recipients to receive non-forfeitable dividends during the vesting period on a basis equivalent to the dividends paid to holders of common stock. These unvested awards meet the definition of participating securities. Under the two-class method for calculating EPS, all earnings (distributed and undistributed) are allocated to each class of common stock and participating securities, based on their respective rights to receive dividends.

PBWM: Personal Banking and Wealth Management

PD: Probability of default

**Principal transactions revenue:** Primarily trading-related revenues predominantly generated by the *ICG* businesses. See Note 6.

**Provision for credit losses:** Composed of the provision for credit losses on loans, provision for credit losses on HTM investments, provision for credit losses on other assets and provision for credit losses on unfunded lending commitments.

**Provisions:** Provisions for credit losses and for benefits and claims.

**PSUs:** Performance share units

**Purchased credit-deteriorated:** Purchased credit-deteriorated assets are financial assets that as of the date of acquisition have experienced a more-than-insignificant deterioration in credit quality since origination, as determined by the Company.

**R&S forecast period:** Reasonable and supportable period over which Citi forecasts future macroeconomic conditions for CECL purposes.

**Real GDP:** Real gross domestic product is the inflationadjusted value of the goods and services produced by labor and property located in a country.

**Regulatory VAR:** Daily aggregated VAR calculated in accordance with regulatory rules.

**REITs:** Real estate investment trusts

**Release:** A net decrease in ACL through the provision for credit losses.

**Reported basis:** Financial statements prepared under U.S. GAAP.

**Results of operations that exclude certain impacts from gains or losses on sale, or one-time charges\*:** Represents GAAP items, excluding the impact of gains or losses on sales, or one-time charges (e.g., the loss on sale related to the sale of Citi's consumer banking business in Australia).

**Results of operations that exclude the impact of FX translation\*:** Represents GAAP items, excluding the impact of FX translation, whereby the prior periods' foreign currency balances are translated into U.S. dollars at the current period's conversion rates (also known as constant dollar). GAAP measures excluding the impact of FX translation are non-GAAP financial measures.

**Retail services:** Citi's U.S. retail services cards business with a portfolio of co-brand and private label relationships (including, among others, The Home Depot, Best Buy, Sears and Macy's).

**RMI:** A non-partisan, non-profit organization that works to transform global energy systems across the real economy. Citi joined the RMI Center for Climate-Aligned Finance in 2021.

**ROA\*:** Return on assets. Represents net income (annualized), divided by average assets for the period.

**ROCE\*:** Return on Common Equity. Represents net income less preferred dividends (both annualized), divided by average common equity for the period.

**ROE:** Return on equity. Represents net income less preferred dividends (both annualized), divided by average Citigroup equity for the period.

**RoTCE\*:** Return on tangible common equity. Represents net income less preferred dividends (both annualized), divided by average tangible common equity for the period.

## RSU(s): Restricted stock units

**RWA:** Risk-weighted assets. Basel III establishes two comprehensive approaches for calculating RWA (the Standardized Approach and the Advanced Approaches), which include capital requirements for credit risk, market risk and operational risk for Advanced Approaches. Key differences in the calculation of credit risk RWA between the Standardized and Advanced Approaches are that for Advanced, credit risk RWA is based on risk-sensitive approaches that largely rely on the use of internal credit models and parameters, whereas for Standardized, credit risk RWA is generally based on supervisory risk-weightings, which vary primarily by counterparty type and asset class. Market risk RWA is calculated on a generally consistent basis between Basel III Standardized Approach and Basel III Advanced Approaches.

S&P: Standard and Poor's Global Ratings

SCB: Stress Capital Buffer

**SCF:** Subscription credit facility. SCFs are revolving credit facilities provided to private equity funds that are secured against the fund's investors' capital commitments.

SEC: The U.S. Securities and Exchange Commission

Securities financing agreements: Include resale, repurchase, securities borrowed and securities loaned agreements.

**SLR:** Supplementary Leverage ratio. Represents Tier 1 Capital divided by total leverage exposure.

**SOFR:** Secured Overnight Financing Rate

SPEs: Special purpose entities

**Standardized Approach:** Established through Basel III, the Standardized Approach aligns regulatory capital requirements more closely with the key elements of banking risk by introducing a wider differentiation of risk weights and a wider recognition of credit risk mitigation techniques, while avoiding excessive complexity. Accordingly, the Standardized Approach produces capital ratios more in line with the actual economic risks that banks are facing.

**Structured notes:** Financial instruments whose cash flows are linked to the movement in one or more indexes, interest rates, foreign exchange rates, commodities prices, prepayment rates or other market variables. The notes typically contain embedded (but not separable or detachable) derivatives. Contractual cash flows for principal, interest or both can vary in amount and timing throughout the life of the note based on non-traditional indexes.

**Tangible book value per share (TBVPS)\*:** Represents tangible common equity divided by EOP common shares outstanding.

**Tangible common equity (TCE):** Represents common stockholders' equity less goodwill and identifiable intangible assets, other than MSRs.

**Taxable equivalent basis:** Represents the total revenue, net of interest expense for the business, adjusted for revenue from investments that receive tax credits and the impact of tax-exempt securities. This metric presents results on a level comparable to taxable investments and securities. GAAP measures on taxable equivalent basis, including the metrics derived from these measures, are non-GAAP financial measures.

**TDR:** Troubled debt restructuring. Prior to January 1, 2023, a TDR was deemed to occur when the Company modified the original terms of a loan agreement by granting a concession to a borrower that was experiencing financial difficulty. Loans with short-term and other insignificant modifications that are not considered concessions were not TDRs. The accounting guidance for TDRs was eliminated with the adoption of ASU 2022-02. See Note 1 for more information.

TLAC: Total loss-absorbing capacity

**Total ACL:** Allowance for credit losses, which comprises the allowance for credit losses on loans (ACLL), allowance for credit losses on unfunded lending commitments (ACLUC), allowance for credit losses on HTM securities and allowance for credit losses on other assets.

**Total payout ratio\*:** Represents total common dividends declared plus common share repurchases as a percentage of net income available to common shareholders.

**Transformation:** Citi has embarked on a multiyear transformation, with the target outcome to change Citi's business and operating models such that they simultaneously strengthen risk and controls and improve Citi's value to customers, clients and shareholders.

**Unaudited:** Financial statements and information that have not been subjected to auditing procedures sufficient to permit an independent certified public accountant to express an opinion.

**U.S. government agencies:** U.S. government agencies include, but are not limited to, agencies such as Ginnie Mae and FHA, and do not include Fannie Mae and Freddie Mac, which are U.S. government-sponsored enterprises (U.S. GSEs). In general, obligations of U.S. government agencies are fully and explicitly guaranteed as to the timely payment of principal and interest by the full faith and credit of the U.S. government in the event of a default.

U.S. Treasury: U.S. Department of the Treasury

**VAR:** Value at risk. A measure of the dollar amount of potential loss from adverse market moves in an ordinary market environment.

VIEs: Variable interest entities

**Wallet:** Proportion of fee revenue based on estimates of investment banking fees generated across the industry (i.e., the revenue wallet) from investment banking transactions in M&A, equity and debt underwriting, and loan syndications.

## **EXHIBIT INDEX**

Exhibit Number	Description of Exhibit	
3.01	Restated Certificate of Incorporation of Citigroup, as amended, as in effect on the date hereof, incorporated by reference to Exhibit 3.01 to Citigroup's Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2023, filed May 5, 2023 (File No. 001-09924).	
22	Subsidiary Issuers of Guaranteed Securities	
<u>31.01+</u>	<u>Certification of principal executive officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</u>	
<u>31.02+</u>	Certification of principal financial officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	
<u>32.01+</u>	Certification pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	
<u>99.01+</u>	List of Securities Registered Pursuant to Section 12(b) of the Securities Exchange Act of 1934, formatted in Inline XBRL.	
101.01+	Financial statements from the Quarterly Report on Form 10-Q of Citigroup for the quarterly period ended June 30, 2023, filed on August 4, 2023, formatted in Inline XBRL: (i) the Consolidated Statement of Income, (ii) the Consolidated Balance Sheet, (iii) the Consolidated Statement of Changes in Stockholders' Equity, (iv) the Consolidated Statement of Cash Flows and (v) the Notes to the Consolidated Financial Statements.	
104	See the cover page of this Quarterly Report on Form 10-Q, formatted in Inline XBRL.	

The total amount of securities authorized pursuant to any instrument defining rights of holders of long-term debt of the Company does not exceed 10% of the total assets of the Company and its consolidated subsidiaries. The Company will furnish copies of any such instrument to the SEC upon request.

+ Filed herewith.