

# Federal Reserve Bank of New York Financial Statements

As of and for the years ended December 31, 2022 and 2021 and Independent Auditors' Report





The Federal Reserve System is the central bank of the United States. It performs five key functions to promote the effective operation of the U.S. economy and, more generally, the public interest.

#### The Federal Reserve

- conducts the nation's monetary policy to promote maximum employment and stable prices in the U.S. economy;
- promotes the stability of the financial system and seeks to minimize and contain systemic risks through active monitoring and engagement in the U.S. and abroad;
- promotes the safety and soundness of individual financial institutions and monitors their impact on the financial system as a whole;
- **fosters payment and settlement system safety and efficiency** through services to the banking industry and U.S. government that facilitate U.S.-dollar transactions and payments; and
- promotes consumer protection and community development through consumer-focused supervision and examination, research and analysis of emerging consumer issues and trends, community economic development activities, and administration of consumer laws and regulations.

To learn more about us, visit www.federalreserve.gov/aboutthefed.htm.

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#### FEDERAL RESERVE BANK of NEW YORK

33 LIBERTY STREET, NEW YORK, NY 10045-0001

#### Management's Report on Internal Control over Financial Reporting

To the Board of Directors:

The management of the Federal Reserve Bank of New York (Bank) is responsible for the preparation and fair presentation of the FRBNY Consolidated Statements of Condition as of December 31, 2022 and 2021, and the FRBNY Consolidated Statements of Operations, and FRBNY Consolidated Statements of Changes in Capital, and the related notes for the years then ended (collectively, the FRBNY consolidated financial statements). The FRBNY consolidated financial statements have been prepared in conformity with the accounting principles, policies, and practices established by the Board of Governors of the Federal Reserve System as set forth in the Financial Accounting Manual for Federal Reserve Banks (FAM), and, as such, include some amounts that are based on management judgments and estimates. To our knowledge, the FRBNY consolidated financial statements are, in all material respects, fairly presented in conformity with the accounting principles, policies and practices documented in the FAM and include all disclosures necessary for such fair presentation.

The management of the Bank is responsible for establishing and maintaining effective internal control over financial reporting as it relates to the FRBNY consolidated financial statements. The Bank's internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of FRBNY consolidated financial statements for external reporting purposes in accordance with the FAM. The Bank's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the Bank's assets; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of FRBNY consolidated financial statements in accordance with FAM, and that the Bank's receipts and expenditures are being made only in accordance with authorizations of its management and directors; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the Bank's assets that could have a material effect on its FRBNY consolidated financial statements.

Even effective internal control, no matter how well designed, has inherent limitations, including the possibility of human error, and therefore can provide only reasonable assurance with respect to the preparation of reliable FRBNY consolidated financial statements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

The management of the Bank assessed its internal control over financial reporting based upon the criteria established in the *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this assessment, we believe that the Bank maintained effective internal control over financial reporting.

John C. Williams

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President

Helen Mucciolo
Chief Financial Officer



KPMG LLP 345 Park Avenue New York, NY 10154-0102

#### Report of Independent Registered Public Accounting Firm

To the Board of Governors of the Federal Reserve System and the Board of Directors of the Federal Reserve Bank of New York:

We have audited the accompanying consolidated statements of condition of the Federal Reserve Bank of New York and subsidiaries as of December 31, 2022 and 2021, and the related consolidated statements of operations and changes in capital for the years then ended, and the related notes (collectively, the financial statements). We also have audited the Federal Reserve Bank of New York's internal control over financial reporting as of December 31, 2022, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission. The Federal Reserve Bank of New York's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on these consolidated financial statements and an opinion on the Federal Reserve Bank of New York's internal control over financial reporting based on our audits.

We conducted our audits in accordance with the auditing standards of the Public Company Accounting Oversight Board (United States) and in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement and whether effective internal control over financial reporting was maintained in all material respects. Our audits of the consolidated financial statements included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

The Federal Reserve Bank of New York's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of consolidated financial statements for external purposes in accordance with the accounting principles established by the Board of Governors of the Federal Reserve System (the "Board") as described in Note 3 of the consolidated financial statements and as set forth in the *Financial Accounting Manual for Federal Reserve Banks* ("FAM"). The Federal Reserve Bank of New York's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the Federal Reserve Bank of New York; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of consolidated financial statements in accordance with the FAM, and that receipts and expenditures of the Federal Reserve Bank of New York are being made only in accordance with authorizations of management and directors of the Federal Reserve Bank of New York; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the Federal Reserve Bank of New York's assets that could have a material effect on the consolidated financial statements.



Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

As described in Note 3 to the consolidated financial statements, the Federal Reserve Bank of New York has prepared these consolidated financial statements in conformity with the accounting principles established by the Board, as set forth in the FAM, which is a basis of accounting other than U.S. generally accepted accounting principles.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Federal Reserve Bank of New York and subsidiaries as of December 31, 2022 and 2021, and the results of their operations and changes in capital for the years then ended, on the basis of accounting described in Note 3. Also, in our opinion, the Federal Reserve Bank of New York maintained, in all material respects, effective internal control over financial reporting as of December 31, 2022, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission.



New York, New York March 14, 2023

### **Abbreviations**

ACH Automated clearinghouse

ASC Accounting Standards Codification
ASU Accounting Standards Update

BEP Benefit Equalization Retirement Plan
Bureau of Consumer Financial Protection

CARES Coronavirus Aid, Relief, and Economic Security

**CCF** Corporate Credit Facilities LLC

CIP Committee on Investment Performance (related to System Retirement Plan)

CMBS Agency commercial mortgage-backed securities

CPFF II CP Funding Facility II LLC

DFMU Designated financial market utility

ESF Exchange Stabilization Fund

FAM Financial Accounting Manual for Federal Reserve Banks

FASB Financial Accounting Standards Board

FIMA Foreign and International Monetary Authorities

FOMC Federal Open Market Committee

FRA Federal Reserve Act

FRBB Federal Reserve Bank of Boston
FRFS Federal Reserve Financial Services

GAAP Accounting principles generally accepted in the United States of America

**GSE** Government-sponsored enterprise

LLC Limited Liability Company

Main Street MS Facilities LLC

MBS Mortgage-backed securities
MLF Municipal Liquidity Facility LLC

MMLF Money Market Mutual Fund Liquidity Facility

OEB Office of Employee Benefits of the Federal Reserve System

PDCF Primary Dealer Credit Facility

PMCCF Primary Market Corporate Credit Facility

PPP Paycheck Protection Program

PPPLF Paycheck Protection Program Liquidity Facility
RMBS Agency residential mortgage-backed securities

SBA Small Business Administration

SDR Special drawing rights

SERP Supplemental Retirement Plan for Select Officers of the Federal Reserve Banks

SMCCF Secondary Market Corporate Credit Facility

SOMA System Open Market Account

STRIPS Separate Trading of Registered Interest and Principal of Securities

TALF II Term Asset-Backed Securities Loan Facility II LLC

TBA To be announced

TIPS Treasury Inflation-Protected Securities

VIE Variable interest entity

			2022		2021
ASSETS					
Gold certificates		\$	3,453	\$	3,60
Special drawing rights certificates			1,818		1,8
Coin			25		
Loans:	Note 4				
Loans to depository institutions			1,069		
Other loans			2,077		4,7
System Open Market Account:	Note 5				
Treasury securities, net (of which \$26,450 and \$23,027 is lent as of December 31, 2022 and 2021, respectively)			2,937,394		3,344,8
Federal agency and government-sponsored enterprise mortgage-backed securities, net			1,383,055		1,517,8
Government-sponsored enterprise debt securities, net (of which \$12 and \$0 is lent as of December 31, 2022 and 2021, respectively)			1,325		1,4
Foreign currency denominated investments, net			6,465		6,8
Central bank liquidity swaps			144		1,1
Accrued interest receivable			17,566		17,4
Other assets			11,500		11,-
Consolidated variable interest entities: Assets held, net (including \$155 and \$92 measured at fair value as of December 31, 2022 and 2021, respectively)	Note 6		7,526		10,4
Prepaid pension benefit costs	Note 9		1,333		2
Other accrued interest receivable	Note 3		7,333		•
Bank premises and equipment, net	Note 7		475		4
Deferred asset - remittances to the Treasury	Note 12		12,545		•
nterdistrict settlement account	NOTE 12		53,270		
Other assets			300		2
Total assets		\$	4,429,847	\$	4,911,5
LIABILITIES AND CAPITAL					
Federal Reserve notes outstanding, net		\$	708,997	\$	698,
System Open Market Account:	Note 5	Ψ	100,331	Ψ	030,
Securities sold under agreements to repurchase	Note 5		1,481,480		1,233,
Other liabilities			354		1,200,
Deposits:			334		1,
Depository institutions			1,709,016		1,810,
Treasury, general account			446,685		406,
Other deposits			62,967		61,9
nterest payable to depository institutions and others			679		01,
Consolidated variable interest entities: Other liabilities	Note 6		2		
ocrued benefit costs	Notes 9, 10		559		
	Notes 9, 10		339		
occrued remittances to the Treasury			_		2,9
nterdistrict settlement account			_		675,
Other liabilities			4 440 005		4.891.
Total liabilities			4,410,825		4,891,
leserve Bank capital Capital paid-in		\$	12,457	\$	11,
Surplus (including accumulated other comprehensive (loss) of \$(1,482) and \$(2,785) at December 31, 2022 and 2021, respectively)			2,414		2,
Total Reserve Bank capital			14,871		14,
consolidated variable interest entities formed to administer credit and liquidity facilities: Non-controlling interest	Note 6		4,151		5,
Total Reserve Bank capital and consolidated variable interest entities non-controlling interest			19,022		19,

The accompanying notes are an integral part of these consolidated financial statements.

Consolidated Statements of Operations for the years ended December 31, 2022 and (in millions)	l December 31, 2021				
(m minons)			2022		2021
INTEREST INCOME		'			
Loans:	Note 4				
Loans to depository institutions		\$	15	\$	1
Other loans			11		32
System Open Market Account:	Note 5				
Treasury securities, net			60,994		51,291
Federal agency and government-sponsored enterprise mortgage-backed securities, net			28,407		16,358
Government-sponsored enterprise debt securities, net			70		74
Foreign currency denominated investments, net			(1)		(15)
Central bank liquidity swaps			6		2
Total interest income			89,502		67,743
INTEREST EXPENSE					
System Open Market Account:	Note 5				
Securities sold under agreements to repurchase		\$	21,551	\$	234
Other			2		1
Depository institutions and others			38,460		2,785
Total interest expense			60,013		3,020
Net interest income			29,489		64,723
OTHER ITEMS OF INCOME (LOSS)					
	Note 5				
System Open Market Account:	Note 5	\$	(3)	¢	
Treasury securities losses, net		φ	(126)	φ	(14)
Federal agency and government-sponsored enterprise mortgage-backed securities losses, net			(605)		(624)
Foreign currency translation losses, net			43		25
Other Income from services			134		133
			190		187
Reimbursable services to government agencies  Other companying first hearfit code.	Notes 0, 10		633		357
Other components of net benefit costs Other	Notes 9, 10				
Total other items of income			(13) 253	_	64
Total other items of income			203	_	04
OPERATING EXPENSES					
Salaries and benefits		\$	782	\$	797
System pension service cost	Note 9		946		954
Occupancy			75		68
Equipment			22		21
Other			375		294
Assessments:					
Board of Governors operating expenses and currency costs			568		538
Bureau of Consumer Financial Protection			247	_	210
Total operating expenses			3,015	_	2,882
Reserve Bank net income from operations			26,727		61,905
Consolidated variable interest entities: Income, net	Note 6		127		171
Consolidated variable interest entities: Non-controlling (income), net	Note 6		(99)		(139)
Reserve Bank and consolidated variable interest entities net income before providing remittances to the Treasury			26,755		61,937
Earnings remittances to the Treasury, net	Note 12		27,601		63,221
Net loss after providing for remittances to the Treasury			(846)		(1,284)
Change in prior service costs related to benefit plans	Notes 9, 10, 11		(4)		(7)
Change in actuarial gains related to benefit plans	Notes 9, 10, 11	_	1,307		1,537
Total other comprehensive income			1,303		1,530
Comprehensive income		\$	457	\$	246

The accompanying notes are an integral part of these consolidated financial statements.

			!	Reserve Bank Capita	I					<sub>T.</sub>	otal Reserve Bank	
				Surplus					Consolidated	'	capital and	
	Capital paid-in		Net income retained	Accumulated other comprehensive income (loss)		Total surplus	Total Reserve Bank capital	variable interest entities: Non-controlling interest			consolidated variable interest entities non- controlling interest	
Balance at December 31, 2020 (217,599,537 shares of Reserve Bank capital stock)	\$ 10,8	ยก	\$ 6.609	\$ (4,315)	\$	2,294	\$ 13,174	\$	75,548	\$	88,72	
Net change in capital stock issued (18,348,839 shares)		17	Ψ 0,003	ψ (4,313)	Ψ	2,234	917	Ψ	15,540	φ	91	
Comprehensive income:	3	11	_	_		_	311		_		91	
Reserve Bank net loss after providing for remittances to the Treasury		_	(1,316)	-		(1,316)	(1,316)		_		(1,31	
Consolidated variable interest entities: Income, net		-	32	-		32	32		139		17	
Other comprehensive income		_	_	1,530		1,530	1,530		-	1,		
Dividends on capital stock		_	(177)	_		(177)	(177)		-	-		
Consolidated variable interest entities: Non-controlling interest - capital (distribution)		_	_	-		_	_		(69,416)	(69,41		
Consolidated variable interest entities: Non-controlling interest - (earnings distribution)		_	_	_		_	-		(529)		(52	
Net change in Reserve Bank capital and non-controlling interest	9	17	(1,461)	1,530		69	986		(69,806)		(68,82	
Balance at December 31, 2021 (235,948,376 shares of Reserve Bank capital stock)	\$ 11,7	97	\$ 5,148	\$ (2,785)	\$	2,363	\$ 14,160	\$	5,742	\$	19,90	
Net change in capital stock issued (13,184,493 shares)	6	60	_	_		_	660		-		66	
Comprehensive income:												
Reserve Bank net loss after providing for remittances to the Treasury		_	(874)	-		(874)	(874)		_		(87	
Consolidated variable interest entities: Income, net		_	28	_		28	28		99		12	
Other comprehensive income		_	_	1,303		1,303	1,303		_		1,30	
Dividends on capital stock		_	(406)	_		(406)	(406)		_		(40	
Consolidated variable interest entities: Non-controlling interest - capital (distribution)		_	_	-		_	_		(1,690)		(1,69	
Consolidated variable interest entities: Non-controlling interest - (earnings distribution)		_	_	-		_	_		_			
Net change in Reserve Bank capital and non-controlling interest	6	60	(1,252)	1,303		51	711		(1,591)		(88)	
Balance at December 31, 2022 (249,132,869 shares of Reserve Bank capital stock)	\$ 12,4	57	\$ 3,896	\$ (1,482)	\$	2,414	\$ 14,871	\$	4,151	\$	19,02	

The accompanying notes are an integral part of these consolidated financial statements.

## **Notes to Consolidated Financial Statements**

#### (1) STRUCTURE

The Federal Reserve Bank of New York (Bank) is part of the Federal Reserve System (System) and is one of the 12 Federal Reserve Banks (Reserve Banks) created by Congress under the Federal Reserve Act of 1913 (FRA), which established the central bank of the United States. The Reserve Banks are chartered by the federal government and possess a unique set of governmental, corporate, and central bank characteristics. The Bank serves the Second Federal Reserve District, which includes the State of New York, the 12 northern counties of New Jersey, Fairfield County, Connecticut, the Commonwealth of Puerto Rico, and the U.S. Virgin Islands.

In accordance with the FRA, supervision and control of the Bank is exercised by a board of directors. The FRA specifies the composition of the board of directors for each of the Reserve Banks. Each board is composed of nine members serving three-year terms: three directors, including those designated as chairman and deputy chairman, are appointed by the Board of Governors of the Federal Reserve System (Board of Governors) to represent the public, and six directors are elected by member banks. Banks that are members of the System include all national banks and state-chartered banks that apply and are approved for membership. Member banks are divided into three classes according to size. Member banks in each class elect one director representing member banks and one director representing the public. In any election of directors, each member bank receives one vote, regardless of the number of shares of Reserve Bank stock it holds.

In addition to the Reserve Banks, the System also consists, in part, of the Board of Governors and the Federal Open Market Committee (FOMC). The Board of Governors, an independent federal agency, is charged by the FRA with a number of specific duties, including general supervision over the Reserve Banks. The FOMC is composed of members of the Board of Governors, the president of the Bank, and, on a rotating basis, four other Reserve Bank presidents.

#### (2) OPERATIONS AND SERVICES

The Reserve Banks perform a variety of services and operations. These functions include participating in formulating and conducting monetary policy; participating in the payment system, including transfers of funds, automated clearinghouse (ACH) operations, and check collection; distributing coin and currency; performing fiscal agency functions for the U.S. Department of the Treasury (Treasury), certain federal agencies, and other entities; serving as the federal government's bank; providing short-term loans to depository institutions; providing loans to participants in programs or facilities with broad-based eligibility in unusual and exigent circumstances; serving consumers and communities by providing educational materials and information regarding financial consumer protection rights and laws and information on community development programs and activities; and supervising bank holding companies, state member banks, savings and loan holding companies, U.S. offices of foreign banking organizations, Edge Act and agreement corporations, and certain financial market utilities that have been designated as systemically important. Certain services are provided to foreign official and international account holders, primarily by the Bank.

The FOMC, in conducting monetary policy, establishes policy regarding domestic open market operations and oversees these operations. The FOMC has selected the Bank to execute open market transactions on behalf of the Reserve Banks as provided in its annual authorization. As such, the Bank holds the resulting securities and agreements in a portfolio known as the System Open Market Account (SOMA). The FOMC authorizes and directs the Bank to conduct operations in domestic markets, including the direct purchase and sale of Treasury securities, federal agency and government-sponsored enterprise (GSE) residential mortgage-backed securities (RMBS), federal agency and GSE commercial mortgage-backed securities (CMBS), and GSE debt securities; the purchase of these securities under agreements to resell; the sale of these securities under agreements to repurchase; and the exchange, at market prices, of these securities that are maturing. The Bank is authorized and directed to lend the Treasury securities and GSE debt securities that are held in the SOMA.

To be prepared to meet the needs specified by the FOMC to carry out the System's central bank responsibilities, the FOMC authorized and directed the Bank to execute standalone spot and forward foreign exchange transactions in certain foreign currencies, to hold balances in those currencies, and to invest such foreign currency holdings, while maintaining adequate liquidity. The Bank holds these securities and agreements in the SOMA.

Because of the global character of bank funding markets, the System has, at times, coordinated with other central banks to provide liquidity. The FOMC authorized and directed the Bank to maintain standing and temporary U.S. dollar liquidity swap arrangements and standing foreign currency liquidity swap arrangements with various foreign banks. The Bank holds amounts outstanding under these liquidity swap lines in the SOMA. In March 2020, the FOMC established temporary swap U.S. dollar liquidity lines to allow central banks to borrow U.S. currency against collateral in their respective jurisdictions. The temporary swap lines expired on December 31, 2021.

The FOMC has authorized and directed the Bank to conduct small-value exercises periodically for the purpose of testing operational readiness.

In response to the coronavirus pandemic that began in 2020, the Board of Governors authorized the operation of several lending facilities under section 13(3) of the FRA. The authority granted to these lending facilities to extend or purchase eligible assets has ended.

On April 8, 2020, each Federal Reserve Bank established and commenced operation of the Paycheck Protection Program Liquidity Facility (PPPLF). The PPPLF offered a source of liquidity to financial institution lenders that lend to small businesses through the Small Business Administration's (SBA) Paycheck Protection Program (PPP). The PPPLF's authority to extend new loans ended July 30, 2021, and the facility will continue to operate until all loans are paid off and operations cease.

The Board of Governors authorized the Federal Reserve Bank of Boston (FRBB) to operate the following two lending facilities:

- On April 9, 2020, the Main Street Lending Program (MSLP) was established to support lending to small and medium-sized businesses and non-profit organizations that were in sound financial condition before the onset of the coronavirus pandemic. The MSLP lending program involved the purchase of participations in loans originated by eligible lenders. The MSLP includes five facilities: Main Street New Loan Facility, Main Street Expanded Loan Facility, Main Street Priority Loan Facility, Non-profit Organization New Loan Facility, and Non-profit Organization Expanded Loan Facility. The MS Facilities LLC (Main Street) was established to administer the facilities. The Treasury, using funds appropriated to the Exchange Stabilization Fund (ESF) through the Coronavirus Aid, Relief, and Economic Security (CARES) Act, made an equity investment in Main Street. The facilities' authority to purchase loan participations ended January 8, 2021, and the FRBB will continue to manage operations until the closure of Main Street.
- On March 18, 2020, the Money Market Mutual Fund Liquidity Facility (MMLF) was established to provide funding to U.S. depository institutions and bank holding companies to finance their purchases of certain types of assets from money market mutual funds under certain conditions. The MMLF's authority to extend loans ended March 31, 2021. All loans were subsequently repaid.

The Board of Governors authorized the Bank to operate the following lending facilities:

On March 22, 2020, the Term Asset-Backed Securities Loan Facility (TALF) was established to provide
loans to U.S. companies secured by certain AAA-rated asset-backed securities (ABS) backed by consumer
and business loans. Term Asset-Backed Securities Loan Facility II Limited Liability Company (LLC) (TALF II)
was established to administer the facility. The Treasury, using funds appropriated to the ESF through the

CARES Act, made an equity investment in TALF II. The TALF's authority to extend loans ended December 31, 2020, and the Bank will continue to manage operations until the closure of TALF II.

- On April 8, 2020, the Municipal Liquidity Facility was established to support lending to state, city, and county governments, certain multistate entities, and other issuers of municipal securities. Municipal Liquidity Facility LLC (MLF) was established to administer the facility. The Treasury, using funds appropriated to the ESF through the CARES Act, made an equity investment in MLF. The facility's authority to purchase eligible assets ended December 31, 2020, and the Bank will continue to manage operations until the closure of MLF.
- On March 17, 2020, the Commercial Paper Funding Facility (CPFF) was established to provide liquidity to short-term funding markets through U.S. dollar-denominated commercial paper issuances. CP Funding Facility II LLC (CPFF II) was established to administer the CPFF. The Treasury, using the ESF, made an equity investment in CPFF II. The CPFF's authority to purchase commercial paper ended March 31, 2021, and CPFF II was terminated on July 8, 2021.
- On March 23, 2020, the Corporate Credit Facilities LLC (CCF) was established to administer the Primary Market Corporate Credit Facility (PMCCF), which was established to support credit to large employers through bond and loan issuances, and the Secondary Market Corporate Credit Facility (SMCCF), which was established to support credit to large employers by providing liquidity for outstanding corporate bonds. The Treasury, using funds appropriated to the ESF through the CARES Act, made an equity investment in CCF. The authority of the PMCCF and SMCCF to purchase eligible assets ended December 31, 2020. CCF was terminated on December 17, 2021.

Additional information related to the lending facilities that the Bank participates in is provided in Notes 4 and 6.

Although the Reserve Banks are separate legal entities, they collaborate on the delivery of certain services to achieve greater efficiency and effectiveness. This collaboration takes the form of centralized operations and product or function offices that have responsibility for the delivery of certain services on behalf of the Reserve Banks. Various operational and management models are used and are supported by service agreements among the Reserve Banks. In some cases, costs incurred by a Reserve Bank for services provided to other Reserve Banks are not shared; in other cases, the Reserve Banks are reimbursed for costs incurred in providing services to other Reserve Banks. Major services provided by the Bank on behalf of the System for which the costs were not reimbursed by the other Reserve Banks include management of SOMA, the Wholesale Product Office, the Valuation Support team, and centralized business administration functions for wholesale payments services.

#### (3) SIGNIFICANT ACCOUNTING POLICIES

Accounting principles for entities with the unique powers and responsibilities of the nation's central bank have not been formulated by accounting standard-setting bodies. The Board of Governors has developed specialized accounting principles and practices that it considers to be appropriate for the nature and function of a central bank. These accounting principles and practices are documented in the Financial Accounting Manual for Federal Reserve Banks (FAM), which is issued by the Board of Governors. The Reserve Banks are required to adopt and apply accounting policies and practices that are consistent with the FAM. The consolidated financial statements and associated disclosures have been prepared in accordance with the FAM.

Due to the unique nature of the Bank's powers and responsibilities as part of the nation's central bank and given the System's unique responsibility to conduct monetary policy, the Board of Governors has adopted accounting principles and practices in the FAM that differ from accounting principles generally accepted in the United States of America (GAAP). The more significant differences are the presentation of all SOMA securities holdings at amortized cost, adjusted for credit impairment, if any, and the recording of all SOMA securities on a settlement-date basis. Amortized cost, rather than the fair value presentation, more appropriately reflects the financial position associated with the Bank's securities holdings given the System's unique responsibility to conduct monetary policy. Although the application of fair value measurements to the securities holdings may result in values substantially greater or less than their carrying values, these unrealized changes in value have no direct effect on the quantity of reserves available to the banking system or on the ability of the Reserve Banks, as the central bank, to meet their financial obligations and responsibilities. Both the domestic and foreign components of the SOMA portfolio may involve transactions that result in gains or losses when holdings are sold before maturity. Decisions regarding securities and foreign currency transactions, including their purchase and sale, are primarily motivated by monetary policy and financial stability objectives rather than profit. Accordingly, fair values, earnings, and gains or losses resulting from the sale of such securities and currencies are incidental to open market operations and do not motivate decisions related to policy or open market activities. Accounting for these securities on a settlement-date basis, rather than the trade-date basis required by GAAP, better reflects the timing of the transaction's effect on the quantity of reserves in the banking system.

In addition, the Bank does not present a Consolidated Statement of Cash Flows as required by GAAP because the liquidity and cash position of the Bank are not a primary concern given the Bank's unique powers and responsibilities as a central bank. Other information regarding the Bank's activities is provided in, or may be derived from, the Consolidated Statements of Condition, Operations, and Changes in Capital, and the accompanying notes to the consolidated financial statements. Other than those described above, the accounting policies described in FAM are generally consistent with those in GAAP and the

references to GAAP in the notes to the consolidated financial statements highlight those areas where FAM is consistent with GAAP.

Preparing the consolidated financial statements in conformity with the FAM requires management to make certain estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the consolidated financial statements, and the reported amounts of income and expenses during the reporting period. Actual results could differ from those estimates.

Significant accounts and accounting policies are explained below.

#### a. Consolidation

The consolidated financial statements include the accounts and results of operations of the Bank as well as several variable interest entities (VIEs), which include the following LLCs: CPFF II, CCF, MLF and TALF II. The consolidation of the VIEs were assessed in accordance with Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) Topic 810 (ASC 810), Consolidation, which requires VIEs to be consolidated by its controlling financial interest holder. The Bank is the managing member and the Treasury is the preferred equity member of the LLCs. Intercompany balances and transactions have been eliminated in consolidation. See Note 6 for additional information on the VIEs. The assets and liabilities of each LLC have been accounted for and consolidated with the assets and liabilities of the Bank. The consolidated financial statements of the Bank include accounts and results of operations of Maiden & Nassau LLC, a Delaware LLC wholly owned by the Bank, which was formed to own and operate the 33 Maiden Lane building.

The Bank consolidates a VIE if the Bank has a controlling financial interest, which is defined as the power to direct the significant economic activities of the entity and the obligation to absorb losses or the right to receive benefits of the entity that could potentially be significant to the VIE. To determine whether it is the controlling financial interest holder of a VIE, the Bank evaluates the VIEs' design, capital structure, and relationships with the variable interest holders. The Bank reconsiders whether it has a controlling financial interest in a VIE, as required by FASB ASC 810, Consolidation, at each reporting date or if there is an event that requires consideration.

The Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010 (Dodd-Frank Act) established the Bureau of Consumer Financial Protection (Bureau) as an independent bureau within the System that has supervisory authority over some institutions previously supervised by the Reserve Banks in connection with those institutions' compliance with consumer protection statutes. Section 1017 of the Dodd-Frank Act provides that the financial statements of the Bureau are not to be consolidated with those of the Board of

Governors or the System. The Board of Governors funds the Bureau through assessments on the Reserve Banks as required by the Dodd-Frank Act. The Reserve Banks reviewed the law and evaluated the design of and their relationship to the Bureau and determined that it should not be consolidated in the Bank's consolidated financial statements.

#### b. Gold and Special Drawing Rights Certificates

The Secretary of the Treasury is authorized to issue gold certificates to the Reserve Banks. Upon authorization, the Reserve Banks acquire gold certificates by crediting equivalent amounts in dollars to the account established for the Treasury. The gold certificates held by the Reserve Banks are required to be backed by the gold owned by the Treasury. The Treasury may reacquire the gold certificates at any time, and the Reserve Banks must deliver them to the Treasury. At such time, the Treasury's account is charged, and the Reserve Banks' gold certificate accounts are reduced. The value of gold for purposes of backing the gold certificates is set by law at \$42 2/9 per fine troy ounce. Gold certificates are recorded by the Reserve Banks at original cost. The Board of Governors allocates the gold certificates among the Reserve Banks once a year based on each Reserve Bank's average Federal Reserve notes outstanding during the preceding 12 months.

Special drawing rights (SDR) are issued by the International Monetary Fund (IMF) to its members in proportion to each member's quota in the IMF at the time of issuance. SDRs serve as a supplement to international monetary reserves and may be transferred from one national monetary authority to another. Under the law providing for U.S. participation in the SDR system, the Secretary of the Treasury is authorized to issue SDR certificates to the Reserve Banks. When SDR certificates are issued to the Reserve Banks, equivalent amounts in U.S. dollars are credited to the account established for the Treasury and the Reserve Banks' SDR certificate accounts are increased. The Reserve Banks are required to purchase SDR certificates, at the direction of the Treasury, for the purpose of financing SDR acquisitions or for financing exchange-stabilization operations. At the time SDR certificate transactions occur, the Board of Governors allocates the SDR certificates among the Reserve Banks based upon each Reserve Bank's Federal Reserve notes outstanding at the end of the preceding calendar year. SDR certificates are recorded by the Reserve Banks at original cost.

#### c. Coin

The amount reported as coin in the Consolidated Statements of Condition represents the face value of all United States coin held by the Bank. The Bank buys coin at face value from the U.S. Mint in order to fill depository institution orders.

#### d. Loans

Loans to depository institutions and other loans, which consist of the PPPLF and the Primary Dealer Credit Facility (PDCF), are reported at their outstanding principal balances and interest income is recognized on an accrual basis.

Loans are impaired when current information and events indicate that it is probable that the Bank will not receive the principal and interest that are due in accordance with the contractual terms of the loan agreement. Impaired loans are evaluated to determine whether an allowance for loan loss is required. The Bank has developed procedures for assessing the adequacy of any allowance for loan losses using all available information to identify incurred losses. This assessment includes monitoring information obtained from banking supervisors, borrowers, and other sources to assess the credit condition of the borrowers and, as appropriate, evaluating collateral values. Generally, the Bank would discontinue recognizing interest income on impaired loans until the borrower's repayment performance demonstrates principal and interest would be received in accordance with the terms of the loan agreement. If the Bank discontinues recording interest on an impaired loan, cash payments are first applied to principal until the loan balance is reduced to zero; subsequent payments are applied as recoveries of amounts previously deemed uncollectible, if any, and then as interest income.

## e. Securities Purchased Under Agreements to Resell, Securities Sold Under Agreements to Repurchase, and Securities Lending

The Bank may engage in purchases of securities under agreements to resell (repurchase agreements) under the standard monetary policy repurchase agreement operations and domestic standing repurchase agreement facility with primary dealers and eligible counterparties (repo operations), and foreign official and international account holders under the Foreign and International Monetary Authorities (FIMA) Repo Facility. Repo operations transactions are settled through a tri-party arrangement, in which a commercial custodial bank manages the collateral clearing, settlement, pricing, and pledging, and provides cash and securities custodial services for and on behalf of the Bank and the counterparty. The collateral pledged must exceed the principal amount of the transaction by a margin determined by the Bank for each class and maturity of acceptable collateral. Collateral designated by the Bank as acceptable under repo operations primarily include Treasury securities (including Treasury Inflation-Protected Securities (TIPS), Separate Trading of Registered Interest and Principal of Securities (STRIPS), and Treasury Floating Rate Notes); direct obligations of several federal agencies and GSEs, including Federal National Mortgage Association, Federal Home Loan Mortgage Corporation, and Federal Home Loan Banks; and pass-through federal agency and GSE mortgage-backed securities (MBS). The FIMA Repo Facility is managed by the Bank, and acceptable collateral includes Treasury securities only. The repurchase agreements are accounted for as financing transactions with the associated interest income recognized over the life of the transaction. These repurchase agreements are reported at their contractual amounts as "System Open

Market Account: Securities purchased under agreements to resell" and the related accrued interest receivable is reported as a component of "System Open Market Account: Accrued interest receivable" in the Consolidated Statements of Condition. Interest income is reported as "System Open Market Account: Securities purchased under agreements to resell" in the Consolidated Statements of Operations.

The Bank may engage in sales of securities under agreements to repurchase (reverse repurchase agreements) with primary dealers and with a set of expanded counterparties that includes banks, savings associations, GSEs, and domestic money market funds. Transactions under these reverse repurchase agreements are designed to have a margin of zero and are settled through a tri-party arrangement, similar to repo operations. Reverse repurchase agreements may also be executed with foreign official and international account holders as part of a service offering. Reverse repurchase agreements are collateralized by a pledge of an amount of Treasury securities, federal agency and GSE MBS, or GSE debt securities that are held in the SOMA. Reverse repurchase agreements are accounted for as financing transactions, and the associated interest expense is recognized over the life of the transaction. These reverse repurchase agreements are reported at their contractual amounts as "System Open Market Account: Securities sold under agreements to repurchase" and the related accrued interest payable is reported as a component of "System Open Market Account: Other liabilities" in the Consolidated Statements of Condition. Interest expense is reported as "System Open Market Account: Securities sold under agreements to repurchase" in the Consolidated Statements of Operations.

Treasury securities and GSE debt securities held in the SOMA may be lent to primary dealers, typically overnight, to facilitate the effective conduct of open market operations. The amortized cost basis of securities lent continues to be reported as "System Open Market Account: Treasury securities, net" and "System Open Market Account: Government-sponsored enterprise debt securities, net," as appropriate, in the Consolidated Statements of Condition. Securities lending transactions are fully collateralized by Treasury securities based on the fair values of the securities lent increased by a margin determined by the Bank. The Bank charges the primary dealer a fee for borrowing securities, and these fees are reported as a component of "Other items of income (loss): System Open Market Account: Other" in the Consolidated Statements of Operations.

Activity related to repurchase agreements, reverse repurchase agreements, and securities lending is allocated to each of the Reserve Banks on a percentage basis derived from an annual settlement of the interdistrict settlement account that occurs in the second quarter of each year.

## f. Treasury Securities, Federal Agency and Government-Sponsored Enterprise Residential and Commercial Mortgage-Backed Securities, Government-Sponsored Enterprise Debt Securities, and Foreign Currency Denominated Investments

Interest income on Treasury securities, federal agency and GSE MBS, GSE debt securities, and foreign currency denominated investments included in the SOMA is recorded when earned and includes inflation compensation on TIPS and amortization of premiums and accretion of discounts using the effective interest method. Interest income on federal agency and GSE MBS also includes gains or losses associated with principal paydowns. Premiums and discounts related to federal agency and GSE MBS are amortized or accreted over the term of the security to stated maturity, and the amortization of premiums and accretion of discounts are accelerated when principal payments are received. Gains and losses resulting from sales of securities are determined by specific issue based on average cost. Treasury securities, federal agency and GSE MBS, and GSE debt securities are reported net of premiums and discounts in the Consolidated Statements of Condition and interest income on those securities is reported net of the amortization of premiums and accretion of discounts in the Consolidated Statements of Operations.

In addition to outright purchases of federal agency and GSE MBS that are held in the SOMA, the Bank enters into RMBS dollar roll transactions (dollar rolls), which primarily involve an initial transaction to purchase or sell "to be announced" (TBA) MBS for delivery in the current month combined with a simultaneous agreement to sell or purchase TBA MBS on a specified future date. During the years ended December 31, 2022 and 2021, the Bank executed dollar rolls to facilitate settlement of outstanding purchases of federal agency and GSE MBS. The Bank accounts for dollar rolls as individual purchases and sales, on a settlement-date basis. Accounting for these transactions as purchases and sales, rather than as financing transactions, is appropriate because the purchase or sale component of the TBA MBS dollar roll is paired off or assigned prior to settlement and, as a result, there is no transfer and return of securities. Net gains (losses) resulting from MBS transactions are reported as a component of "Other items of income (loss): System Open Market Account: Federal agency and government-sponsored enterprise mortgage-backed securities losses, net" in the Consolidated Statements of Operations.

Foreign currency denominated investments, which can include foreign currency deposits, repurchase agreements, and government debt instruments, are revalued daily at current foreign currency market exchange rates in order to report these assets in U.S. dollars. Any negative interest associated with these foreign currency denominated investments is included as a component of "Interest income: System Open Market Account: Foreign currency denominated investments, net" in the Consolidated Statements of Operations. Foreign currency translation gains and losses that result from the daily revaluation of foreign

currency denominated investments are reported as "Other items of income (loss): System Open Market Account: Foreign currency translation losses, net" in the Consolidated Statements of Operations.

Because the Bank enters into commitments to buy Treasury securities, federal agency and GSE MBS, and foreign government debt instruments and records the related securities on a settlement-date basis in accordance with the FAM, the related outstanding commitments are not reflected in the Consolidated Statements of Condition.

Activity related to Treasury securities, federal agency and GSE MBS, and GSE debt securities including the premiums, discounts, and realized gains and losses, is allocated to each Reserve Bank on a percentage basis derived from an annual settlement of the interdistrict settlement account that occurs in the second quarter of each year. Activity related to foreign currency denominated investments, including the premiums, discounts, and realized and unrealized gains and losses, is allocated to each Reserve Bank on a percentage basis, adjusted annually in the second quarter of each year, calculated as the ratio of each Reserve Bank's capital and surplus to the Reserve Banks' aggregate capital and surplus at the preceding December 31.

The Bank is authorized to hold foreign currency working balances and execute foreign exchange transactions to facilitate international payments and currency transactions it makes with or on behalf of foreign central bank and U.S. official institution customers. These foreign currency working balances and transactions are not related to the Bank's monetary policy operations. Foreign currency working balances are reported as a component of "Other assets" in the Consolidated Statements of Condition and the related foreign currency translation gains and losses that result from the daily revaluation of the foreign currency working balances and contracts are reported as a component of "Other items of income (loss): Other" in the Consolidated Statements of Operations.

#### g. Central Bank Liquidity Swaps

Central bank liquidity swaps, which are transacted between the Bank and a foreign central bank, can be structured as either U.S. dollar or foreign currency liquidity swap arrangements.

Central bank liquidity swaps activity, including the related income and expense, is allocated to each Reserve Bank based on a percentage basis, adjusted annually in the second quarter of each year, calculated as the ratio of each Reserve Bank's capital and surplus to the Reserve Banks' aggregate capital and surplus at the preceding December 31.

#### U.S. dollar liquidity swaps

At the initiation of each U.S. dollar liquidity swap transaction, the foreign central bank transfers a specified amount of its currency to a restricted account for the Bank in exchange for U.S. dollars at the prevailing market exchange rate. Concurrent with this transaction, the Bank and the foreign central bank agree to a second transaction that obligates the foreign central bank to return the U.S. dollars and the Bank to return the foreign currency on a specified future date at the same exchange rate as the initial transaction. The Bank's allocated portion of the foreign currency amounts that the Bank acquires are reported as "System Open Market Account: Central bank liquidity swaps" in the Consolidated Statements of Condition.

Because the swap transaction will be unwound at the same U.S. dollar amount and exchange rate that were used in the initial transaction, the recorded value of the foreign currency amounts is not affected by changes in the market exchange rate.

The foreign central bank compensates the Bank based on the amount outstanding and the interest rate under the swap agreement. The Bank's allocated portion of the amount of compensation received during the term of the swap transaction is reported as "Interest income: System Open Market Account: Central bank liquidity swaps" in the Consolidated Statements of Operations.

#### Foreign currency liquidity swaps

Foreign currency liquidity swap transactions involve the transfer by the Bank at the prevailing market exchange rate, of a specified amount of U.S. dollars to an account for the foreign central bank in exchange for its currency. The foreign currency liquidity swap is recorded as a liability in the amount of foreign currency that the Bank receives.

#### h. Consolidated Variable Interest Entities: Assets Held, Net

The consolidated VIEs hold assets that result from the associated purchase and lending activities and from the Treasury's preferred equity contributions. In addition to loans and securities directly related to program activities, assets may include cash and cash equivalents, short-term investments, and short-term investments in non-marketable securities. Cash equivalents and short-term investments are recorded at fair value in accordance with FASB ASC 825, Financial Instruments, while short-term investments in non-marketable securities are accounted for at amortized cost in accordance with FASB ASC 320, Investments - Debt Securities.

MLF holds municipal notes designated as held-to-maturity and accounted for at amortized cost in accordance with FASB ASC 320, Investments - Debt Securities. TALF II made loans to borrowers that are

designated as held-for-investment and accounted for at the loan's principal balance in accordance with FASB ASC 310. Receivables.

During the period January 2021 to May 2021, CCF investments in corporate debt securities were accounted for at amortized cost in accordance with FASB ASC 320, Investments - Debt Securities. Due to the wind down of the CCF portfolio, effective June 2021, corporate bonds held by CCF under the SMCCF were reclassified as trading securities and, as a result, were recorded at fair value in accordance with FASB ASC 320, Investments - Debt Securities. Upon reclassification, any portion of the unrealized holding gains or losses at the transfer date of the securities, which occurred prior to year-end, was recognized as a component of "Consolidated variable interest entities: Income, net" in the Consolidated Statements of Operations. CCF also held exchange-traded funds that were recorded at fair value in accordance with FASB ASC 825, Financial Instruments.

Additional information related to the assets held by consolidated VIEs is provided in Note 6.

#### i. Bank Premises, Equipment, and Software

Bank premises and equipment are stated at cost less accumulated depreciation. Depreciation is calculated on a straight-line basis over the estimated useful lives of the assets, which range from 2 to 50 years. Major alterations, renovations, and improvements are capitalized and depreciated over the remaining useful life of the asset or, if appropriate, over the unique useful life of the alteration, renovation, or improvement. Maintenance, repairs, and minor replacements are charged to operating expense in the year incurred. Reserve Banks may transfer assets to other Reserve Banks or may lease property of other Reserve Banks.

Costs incurred to acquire software are capitalized based on the purchase price. Costs incurred during the application development stage to develop internal-use software are capitalized based on the cost of direct services and materials associated with designing, coding, installing, and testing the software. Capitalized software costs are amortized on a straight-line basis over the estimated useful lives of the software applications, which generally range from two to five years. Maintenance costs and minor replacements related to software are charged to operating expense in the year incurred.

Capitalized assets, including software, buildings, leasehold improvements, furniture, and equipment, are impaired and an adjustment is recorded when events or changes in circumstances indicate that the carrying amount of assets or asset groups is not recoverable and significantly exceeds the assets' fair value.

#### j. Leases

Leases are identified in accordance with FASB ASC 842, Leases. The Bank's material leases involve lessor arrangements for premises that are classified as operating leases. Upon adoption of ASC 842, the Bank elected the short-term lease recognition exemption and did not separate lease components from non-lease components for all leases.

#### k. Interdistrict Settlement Account

Each Reserve Bank aggregates the payments due to or from other Reserve Banks. These payments result from transactions between the Reserve Banks and transactions that involve depository institution accounts held by other Reserve Banks, such as Fedwire funds and securities transfers and check and ACH transactions. The cumulative net amount due to or from the other Reserve Banks is reflected in the "Interdistrict settlement account" in the Consolidated Statements of Condition.

An annual settlement of the interdistrict settlement account occurs in the second quarter of each year. As a result of the annual settlement, the balance in each Bank's interdistrict settlement account is adjusted by an amount equal to the average balance in the account during the previous twelve-month period ended March 31. An equal and offsetting adjustment is made to each Bank's allocated portion of SOMA assets and liabilities.

#### I. Federal Reserve Notes

Federal Reserve notes are the circulating currency of the United States. These notes, which are identified as issued to a specific Reserve Bank, must be fully collateralized. All of the Bank's assets are eligible to be pledged as collateral. The collateral value is equal to the book value of the collateral tendered with the exception of securities, for which the collateral value is equal to the par value of the securities tendered. The par value of securities pledged as collateral under reverse repurchase agreements is deducted from the eligible collateral value.

The Board of Governors may, at any time, call upon a Reserve Bank for additional security to adequately collateralize outstanding Federal Reserve notes. To satisfy the obligation to provide sufficient collateral for outstanding Federal Reserve notes, the Reserve Banks have entered into an agreement that provides for certain assets of the Reserve Banks to be jointly pledged as collateral for the Federal Reserve notes issued to all Reserve Banks. In the event that this collateral is insufficient, the FRA provides that Federal Reserve notes become a first and paramount lien on all the assets of the Reserve Banks. Finally, Federal Reserve notes are obligations of the United States government.

"Federal Reserve notes outstanding, net" in the Consolidated Statements of Condition represents the Bank's Federal Reserve notes outstanding, reduced by the Bank's currency holdings of \$74,159 million and \$51,657 million at December 31, 2022 and 2021, respectively.

At December 31, 2022 and 2021, all Federal Reserve notes outstanding, net, were fully collateralized. At December 31, 2022 and 2021, all gold certificates, all SDR certificates, and \$2,243 billion and \$2,171 billion, respectively, of domestic securities held in the SOMA were pledged as collateral. At December 31, 2022 and 2021, no investments denominated in foreign currencies were pledged as collateral.

#### m. Deposits

#### **Depository Institutions**

Depository institutions' deposits represent balances maintained in master accounts and excess balance accounts held by the depository institutions at the Bank.

Depository institutions earn interest at the interest on reserve balance (IORB) rate. The Board of Governors sets the IORB rate at a rate not to exceed the general level of short-term interest rates and has the discretion to change the IORB rate at any time. Interest on depository institutions' balances is calculated and accrued daily at the specified rate. Interest payable on deposits of depository institutions at Reserve Banks is reported as a component of "Interest payable to depository institutions and others" in the Consolidated Statements of Condition. Interest expense on deposits of depository institutions at Reserve Banks is reported as a component of "Depository institutions and others" in the Consolidated Statements of Operations.

#### **Treasury General Account**

The Treasury general account is the primary operational account of the Treasury and is maintained at the Bank.

#### **Other Deposits**

Other deposits include the Bank's allocated portion of foreign central bank and foreign government deposits held at the Bank. Other deposits also include cash collateral, deposits of designated financial market utilities (DFMUs), and GSE deposits held by the Bank. The Bank pays interest on deposits held by DFMUs at a rate currently set equal to the interest rate paid on reserve balances maintained by depository institutions. The Board of Governors sets, and can change at its discretion, the rate paid to DFMUs. Interest payable on other deposits is reported as a component of "Interest payable to depository

institutions and others" in the Consolidated Statements of Condition. Interest expense on other deposits is reported as a component of "Depository institutions and others" in the Consolidated Statements of Operations.

The Bank held other deposits for the FRBB's MMLF, and during 2021, the balance was returned after the MMLF's authority to extend loans ended on March 31, 2021.

#### n. Reserve Bank Capital Paid-in

The FRA requires that each member bank subscribe to the capital stock of the Reserve Bank in an amount equal to 6 percent of the capital and surplus of the member bank. These shares have a par value of \$100 and may not be transferred or hypothecated. As a member bank's capital and surplus changes, its holdings of Reserve Bank stock must be adjusted. Currently, only one-half of the subscription is paid in, and the remainder is subject to call. A member bank is liable for Reserve Bank liabilities up to twice the par value of stock subscribed by it.

The FRA requires each Reserve Bank to pay each member bank an annual dividend based on the amount of the member bank's paid-in capital stock and a rate determined by the member bank's total consolidated assets. Member banks with total consolidated assets in excess of a threshold established in the FRA receive a dividend equal to the smaller of 6 percent or the rate equal to the high yield of the 10-year Treasury note auctioned at the last auction held prior to the payment of the dividend. Member banks with total consolidated assets equal to or less than the threshold receive a dividend of 6 percent. The threshold for total consolidated assets was \$11.2 billion and \$10.8 billion for the years ended December 31, 2022 and 2021, respectively. This threshold is adjusted annually based on the Gross Domestic Product Price Index, which is published by the Bureau of Economic Analysis. The dividend is paid semiannually and is cumulative.

#### o. Consolidated Variable Interest Entities Formed to Administer Credit and Liquidity Facilities: Non-Controlling Interest

The Treasury's preferred equity contribution to the consolidated VIEs is reported as a component of "Consolidated variable interest entities formed to administer credit and liquidity facilities: Non-controlling interest" in the Consolidated Statements of Condition.

The reported amount also includes Treasury's allocated portion of undistributed net VIEs assets, determined in accordance with LLC agreements and accounting policies adopted by the VIEs. The Treasury's non-controlling interest is reported as "Consolidated variable interest entities: Non-controlling interest" in the Consolidated Statements of Changes in Capital. Treasury's allocated portion of undistributed net assets is determined in accordance with the hypothetical liquidation at book value

methodology. A calculation is prepared to determine the amounts that would be received if the VIE liquidated all of its assets, measured as of the balance sheet date, and distributed the proceeds to the members based on the contractually defined liquidation priorities. The difference between the calculated liquidation distribution amounts at the beginning and the end of the reporting period is the Bank's share of the earnings or losses from the VIEs investment for the period.

#### p. Surplus

The FRA limits aggregate Reserve Bank surplus. The National Defense Authorization Act for 2021 reduced the statutory limit on aggregate Reserve Bank surplus from \$6.825 billion to \$6.785 billion, effective January 1, 2021. On February 5, 2021, the Reserve Banks made a \$40 million lump sum payment to the Treasury. Reserve Bank surplus is allocated among the Reserve Banks based on the ratio of each Bank's capital paid-in to total Reserve Bank capital paid-in as of December 31 of each year. The amount reported as surplus by the Bank as of December 31, 2022 and 2021 represents the Bank's allocated portion of surplus.

Accumulated other comprehensive loss is reported as a component of "Surplus" in the Consolidated Statements of Condition and the Consolidated Statements of Changes in Capital. Additional information regarding the classifications of accumulated other comprehensive income is provided in Notes 9, 10, and 11.

#### q. Earnings Remittances to the Treasury

The FRA requires that any amounts of the surplus funds of the Reserve Banks that exceed, or would exceed, the aggregate surplus limitation shall be transferred to the Board of Governors for transfer to the Treasury. The Bank remits excess earnings to the Treasury after providing for the cost of operations, payment of dividends, and reservation of an amount necessary to maintain surplus at the Bank's allocated portion of the aggregate surplus limitation. Remittances to the Treasury are made on a weekly basis. See Note 12 for additional information on earnings remittances to the Treasury.

On a weekly basis, if earnings become less than the costs of operations, payment of dividends, and reservation of an amount necessary to maintain the Bank's allocated portion of the aggregate surplus limitation, the Bank suspends weekly remittances to the Treasury and records a deferred asset. A deferred asset represents the shortfall in earnings from the most recent point that remittances to the Treasury were suspended. The deferred asset is the amount of net excess earnings the Bank will need to realize in the future before remittances to the Treasury resume. The net amount of the excess earnings and costs in excess of earnings recognized for the full year is reported as "Earnings remittances to the Treasury, net" in the Consolidated Statements of Operations. Amounts due to the Treasury are reported as "Accrued remittances to the Treasury" in the Consolidated Statements of Condition. The Bank records a deferred

asset, which is reported as "Deferred asset – remittances to the Treasury" in the Consolidated Statements of Condition. This deferred asset is periodically reviewed for impairment and no impairment existed as of December 31, 2022.

#### r. Income and Costs Related to Treasury Services

When directed by the Secretary of the Treasury, the Bank is required by the FRA to serve as fiscal agent and depositary of the United States Government. By statute, the Treasury has appropriations to pay for these services. Revenue generated by the Bank in performing fiscal agent activities is recognized when the Bank's performance obligations are satisfied. During the years ended December 31, 2022 and 2021, the Bank was reimbursed for all services provided to the Treasury as its fiscal agent.

## s. Income from Services, Services Provided to Other Reserve Banks, and Services Provided by Other Reserve Banks

On July 1, 2022, the Federal Reserve Financial Services (FRFS), a new organization within the System, began implementation of a service-delivery model in which the responsibility for operating the financial services provided to depository institutions is collectively managed. The financial services managed by the FRFS include check services, ACH services, Fedwire funds and securities services, National Settlement Services, and the electronic access service. This centralized organization supports the System's delivery of its payments services under this new structure.

On behalf of the Reserve Banks, the Bank operates Fedwire funds and securities services and National Settlement Service and, as a result, reports total System revenue for these services as "Other items of income (loss): Income from services" in its Consolidated Statements of Operations. Revenue generated from these services is recognized when the Reserve Banks' performance obligations are satisfied.

Because the performance obligations for these services are not for any specific term, the Bank recognizes income based on usage of the service. Transaction prices are set by fee schedules published by the System. During the years ended December 31, 2022 and 2021, earned income was collected timely. The Bank reimburses the applicable Reserve Banks for the costs incurred to provide these services and reports the resulting reimbursement paid as a component of "Operating expenses: Other" in its Consolidated Statements of Operations.

The Federal Reserve Bank of Atlanta operates the Reserve Banks' provision of check and ACH services to depository institutions, and the Federal Reserve Bank of Chicago operates the Reserve Banks' provision of electronic access services to depository institutions. The Reserve Bank that operates these services recognizes the related total System revenue in its Consolidated Statements of Operations. Revenue generated from these services is recognized when the Reserve Banks' performance obligations are satisfied. Because the performance obligations for these services are not for any specific term, the

Reserve Banks responsible for operating these services recognize income based on usage of the services. Transaction prices are set by fee schedules published by the System. During the years ended December 31, 2022 and 2021, earned income was collected timely. The Bank is reimbursed for costs incurred to provide these services by the Reserve Banks responsible for operating these services and reports this reimbursement as a component of "Operating expenses: Other" in its Consolidated Statements of Operations.

#### t. Assessments

The Board of Governors assesses the Reserve Banks to fund its operations and the operations of the Bureau. These assessments are allocated to each Reserve Bank based on each Reserve Bank's capital and surplus balances. The Board of Governors also assesses each Reserve Bank for expenses related to producing, issuing, and retiring Federal Reserve notes based on each Reserve Bank's share of the number of notes comprising the System's net liability for Federal Reserve notes on December 31 of the prior year.

The Dodd-Frank Act requires that, after the transfer of its responsibilities to the Bureau on July 21, 2011, the Board of Governors fund the Bureau in an amount not to exceed a fixed percentage of the total operating expenses of the System as reported in the Board of Governors' 2009 annual report, which totaled \$4.98 billion. After 2013, the amount is adjusted annually in accordance with the provisions of the Dodd-Frank Act. The percentage of total operating expenses of the System for the years ended December 31, 2022 and 2021 was 14.74 percent (\$734.0 million) and 14.41 percent (\$717.5 million), respectively. The Bank's assessment for Bureau funding is reported as "Operating expenses: Assessments: Bureau of Consumer Financial Protection" in the Consolidated Statements of Operations.

#### u. Fair Value

Assets of the Retirement Plan for Employees of the System and certain assets of the credit facilities, discussed in Note 6, are measured at fair value in accordance with FASB ASC Topic 820 (ASC 820), Fair Value Measurement. ASC 820 defines fair value as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. ASC 820 establishes a three-level fair value hierarchy that distinguishes between assumptions developed using market data obtained from independent sources (observable inputs) and the Bank's assumptions developed using the best information available in the circumstances (unobservable inputs). The three levels established by ASC 820 are described as follows:

Level 1 – Valuation is based on quoted prices for identical instruments traded in active markets.

Level 2 – Valuation is based on quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active, and model-based valuation techniques for which all significant assumptions are observable in the market.

Level 3 – Valuation is based on model-based techniques that use significant inputs and assumptions not observable in the market. These unobservable inputs and assumptions reflect the Bank's estimates of inputs and assumptions that market participants would use in pricing the assets and liabilities. Valuation techniques include the use of option pricing models, discounted cash flow models, and similar techniques.

The inputs or methodology used for valuing assets and liabilities are not necessarily an indication of the risk associated with those assets and liabilities.

#### v. Taxes

The Reserve Banks are exempt from federal, state, and local taxes, except for taxes on real property. The Bank's real property taxes were \$15 million and \$16 million for the years ended December 31, 2022 and 2021, respectively, and are reported as a component of "Operating expenses: Occupancy" in the Consolidated Statements of Operations.

#### w. Restructuring Charges

The Reserve Banks recognize restructuring charges for exit or disposal costs incurred as part of the closure of business activities in a particular location, the relocation of business activities from one location to another, or a fundamental reorganization that affects the nature of operations. Restructuring charges may include costs associated with employee separations, contract terminations, and asset impairments. Expenses are recognized in the period in which the Bank commits to a formalized restructuring plan or executes the specific actions contemplated in the plan and all criteria for financial statement recognition have been met.

The Bank had no significant restructuring activities in 2022 and 2021.

#### x. Recently Issued Accounting Standards

Other than the significant differences described in Note 3, the accounting policies described in FAM are generally consistent with those in GAAP. The following items represent recent accounting standards and describe how the FAM was or will be revised to be consistent with these GAAP standards.

In June 2016, the FASB issued Accounting Standards Update (ASU) 2016-13, Financial Instruments – Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments, amended in subsequent related ASUs. ASU 2016-13 introduces the Current Expected Credit Losses (CECL) methodology which replaced the previous GAAP method of calculating credit losses. While the prior methodology required incurred losses to be probable before they were recognized, ASU 2016-13 requires the use of a lifetime expected loss methodology, which requires earlier recognition of credit losses on financial assets measured at amortized cost. The new standard modifies the methodology for measuring credit losses by incorporating future forecast assumptions while it does not change the determined credit risk on the underlying financial assets. The Board of Governors adopted this standard using the modified retrospective method to report results under ASU 2016-13 for reporting periods after January 1, 2023. The adoption of this standard is not expected to have a material effect on the Bank's consolidated financial statements.

In October 2018, the FASB issued ASU 2018-17, Consolidation (Topic 810): Targeted Improvements to Related Party Guidance for Variable Interest Entities. This update broadens the existing accounting alternative available to private companies. The Board of Governors adopted this standard for the year ending December 31, 2021, and it did not have a material effect on the Bank's consolidated financial statements.

#### **(4) LOANS**

#### **Loans to Depository Institutions**

The Bank offers primary, secondary, and seasonal loans to eligible borrowers. Each program has its own interest rate and interest is accrued using the applicable interest rate established at least every 14 days by the Bank's board of directors, subject to review and determination by the Board of Governors. Primary and secondary loans are extended on a short-term basis, typically overnight, whereas seasonal loans may be extended for a period of up to nine months.

Primary, secondary, and seasonal loans are collateralized to the satisfaction of the Bank to reduce credit risk. Assets eligible to collateralize these loans include consumer, business, and real estate loans; Treasury securities; GSE debt securities; foreign sovereign debt; municipal, corporate, and state and local government obligations; asset-backed securities; corporate bonds; commercial paper; and bank-issued assets, such as certificates of deposit, bank notes, and deposit notes. Collateral is assigned a lending value that is deemed appropriate by the Bank, which is typically fair value reduced by a margin. Loans to depository institutions are monitored daily to ensure that borrowers continue to meet eligibility requirements for these programs. If a borrower no longer qualifies for these programs, the Bank will generally request full repayment of the outstanding loan or, for primary or seasonal loans, may convert the loan to a secondary credit loan. Collateral levels are reviewed daily against outstanding obligations, and borrowers that no longer have sufficient collateral to support outstanding loans are required to provide additional collateral or to make partial or full repayment.

#### **Other Loans**

#### **Paycheck Protection Program Liquidity Facility**

PPPLF loans are non-recourse loans and only PPP loans guaranteed by the SBA are eligible to serve as collateral for the PPPLF. An eligible borrower may pledge SBA-guaranteed PPP loans that it has originated or purchased. Each PPPLF loan is equal to the maturity of the PPP loan pledged and has a term of two years or five years based on the PPP loan origination date. In an event of default, PPP covered loans are fully guaranteed as to principal and accrued interest by the SBA. The Bank has the rights to any such loan forgiveness reimbursement by the SBA to the eligible borrower. The eligible borrower shall pay fully collected funds to the Bank. At December 31, 2022 and

2021, no PPPLF loans were over 90 days past due and determined to be non-performing, or on non-accrual status. The PPPLF's authority to extend new loans ended July 30, 2021.

#### **Primary Dealer Credit Facility**

On March 17, 2020, the PDCF was established as a term loan facility that provides funding to primary dealers in exchange for a broad range of collateral and is intended to foster the functioning of financial markets more generally. The PDCF's authority to extend loans ended March 31, 2021, and all loans were repaid by April 15, 2021.

The remaining maturity distribution of loans outstanding at December 31, 2022 and 2021 were as follows (in millions):

	Within 15 days	16 days to 90 days			91 days to 1 year		Over 1 year to 5 years	Total
December 31, 2022								
Loans to depository institutions								
Primary, secondary, and seasonal credit	\$ 634	\$	435	\$	_	\$	_	\$ 1,069
Other loans								
PPPLF	_		_		_		2,077	2,077
Total loans	\$ 634	\$	435	\$	_	\$	2,077	\$ 3,146
December 31, 2021						_		
Other loans								
PPPLF	\$ _	\$	_	\$	116	\$	4,597	\$ 4,713
Total loans	\$ _	\$	_	\$	116	\$	4,597	\$ 4,713

Interest income attributable to loans outstanding during the years ended December 31, 2022 and 2021 was as follows (in millions):

2022		2021	
\$	15	\$	1
	11		32
\$	26	\$	33
		\$ 15 11	\$ 15 \$ 11

At December 31, 2022 and 2021, the Bank did not have any loans that were impaired, restructured, past due and determined to be non-performing, or on non-accrual status, and no allowance for loan losses was required. There were no impaired loans during the years ended December 31, 2022 and 2021.

#### (5) SYSTEM OPEN MARKET ACCOUNT

#### a. Domestic Securities Holdings

The Bank executes domestic open market operations and, on behalf of the Reserve Banks, holds the resulting securities in the SOMA.

In response to the risks to economic activity posed by the coronavirus in March 2020, the FOMC directed the Bank to increase the SOMA portfolio by purchasing Treasury securities, RMBS, and CMBS as needed to sustain smooth functioning of markets for those securities. Effective December 2020, the FOMC directed the Bank to increase the SOMA portfolio by purchasing Treasury securities at a pace of \$80 billion per month and RMBS at a pace of \$40 billion per month and to increase the SOMA portfolio by purchasing Treasury securities, RMBS, and CMBS as needed to sustain smooth functioning of markets for these securities.

Pursuant to the FOMC directives, the Bank reduced the monthly pace of its net asset purchases for Treasury securities and RMBS as follows:

- Effective November 4, 2021, began reducing net asset purchases for Treasury securities to \$70 billion per month and began reducing net asset purchases for agency MBS to \$35 billion per month. The Bank ceased purchases of CMBS.
- Effective December 16, 2021, further reduced net asset purchases for Treasury securities to \$60 billion per month and further reduced net asset purchases for RMBS to \$30 billion per month.
- Effective mid-January 2022, further reduced net asset purchases for Treasury securities to \$40 billion per month and further reduced net asset purchases for RMBS to \$20 billion per month.
- Effective mid-February 2022, further reduced net asset purchases for Treasury securities to \$20 billion per month and further reduced net asset purchases for RMBS to \$10 billion per month.

The FOMC directed the Bank, effective March 17, 2022, to roll over all principal payments of Treasury securities and to reinvest payments of agency debt and RMBS into RMBS.

Pursuant to the FOMC directives, the Bank reinvested principal payments from Treasury securities and RMBS to the extent that they exceed monthly caps as follows:

 Effective June 2022 through August 2022, rolled over at auction Treasury securities maturing in the calendar month that exceed a cap of \$30 billion and reinvested agency MBS maturities in the calendar month that exceed a cap of \$17.5 billion.

• Effective September 2022 through December 2022, rolled over at auction Treasury securities maturing in the calendar month that exceed a cap of \$60 billion and reinvested agency MBS maturities in the calendar month that exceed a cap of \$35 billion.

The Bank's allocated share of activity related to domestic open market operations was 51.270 percent and 56.526 percent at December 31, 2022 and 2021, respectively.

The Bank's allocated share of Treasury securities, federal agency and GSE MBS, and GSE debt securities, net, excluding accrued interest, held in the SOMA at December 31, 2022 and 2021 was as follows (in millions):

		Allocated to the Bank														
			2021													
		Par		Unamortized premiums		Unaccreted discounts		Total amortized cost		Par	Unamortized premiums		Unaccreted discounts		â	Total mortized cost
Treasury securities																
Bills	\$	148,440	\$	_	\$	(1,508)	\$	146,932	\$	184,298	\$	_	\$	(50)	\$	184,248
Notes		1,805,686		25,416		(3,391)		1,827,711		2,119,140		39,013		(3,127)		2,155,026
Bonds		865,402		104,812		(7,463)		962,751		891,695		120,584		(6,692)		1,005,587
Total Treasury securities	=	2,819,528	_	130,228		(12,362)	_	2,937,394	_	3,195,133	_	159,597		(9,869)	_	3,344,861
Federal agency and GSE MBS																
Residential	\$	1,349,896	\$	30,179	\$	(1,790)	\$	1,378,285	\$	1,473,232	\$	39,181	\$	(321)	\$	1,512,092
Commercial		4,355		416		(1)		4,770		5,222		552		(2)		5,772
Total federal agency and GSE MBS	_	1,354,251		30,595		(1,791)	_	1,383,055	_	1,478,454		39,733		(323)	_	1,517,864
GSE debt securities	\$	1,203	\$	122	\$		\$	1,325	\$	1,327	\$	148	\$		\$	1,475

							Total	SON	ЛΑ							
			20	22			2021									
		Par	Unamortized premiums		Unaccreted discounts		Total amortized cost		Par	Unamortized premiums		Unaccreted discounts		â	Total mortized cost	
Treasury securities																
Bills	\$	289,525	\$ _	\$	(2,940)	\$	286,585	\$	326,044	\$	_	\$	(88)	\$	325,956	
Notes		3,521,904	49,573		(6,614)		3,564,863		3,748,992		69,017		(5,533)		3,812,476	
Bonds		1,687,925	204,431		(14,557)		1,877,799		1,577,506		213,327		(11,839)		1,778,994	
Total Treasury securities	=	5,499,354	254,004	_	(24,111)	_	5,729,247		5,652,542		282,344		(17,460)	_	5,917,426	
Federal agency and GSE MBS																
Residential	\$	2,632,909	\$ 58,862	\$	(3,491)	\$	2,688,280	\$	2,606,309	\$	69,316	\$	(568)	\$	2,675,057	
Commercial		8,494	812		(3)		9,303		9,237		977		(3)		10,211	
Total federal agency and GSE MBS	=	2,641,403	59,674	_	(3,494)	_	2,697,583	_	2,615,546		70,293		(571)	_	2,685,268	
GSE debt securities	\$	2,347	\$ 237	\$		\$	2,584	\$	2,347	\$	263	\$		\$	2,610	

During the years ended December 31, 2022 and 2021, the Bank entered into repurchase agreements and reverse repurchase agreements as part of its monetary policy activities. These operations have been undertaken as

necessary to maintain the federal funds rate in a target range. In addition, reverse repurchase agreements are entered into as part of a service offering to foreign official and international account holders.

The FIMA Repo Facility allows FIMA account holders to temporarily exchange their U.S. Treasury securities for U.S. dollars, which can then be available to institutions in their jurisdictions. On July 28, 2021, the FIMA Repo Facility was converted from temporary to a standing facility for repurchase agreements.

Financial information related to repurchase agreements allocated to the Bank and held in the SOMA for the years ended December 31, 2022 and 2021 was as follows (in millions):

	Allocated t	o the	e Bank	Total \$	Total SOMA					
	2022		2021	2022		2021				
Repo operations:										
Contract amount outstanding, end of year	\$ _	\$	_	\$ _	\$	-				
Average daily amount outstanding, during the year	_		_	1		-				
Maximum balance outstanding, during the year	34		26	61		46				
FIMA Repo Facility:										
Contract amount outstanding, end of year	\$ _	\$	_	\$ _		-				
Average daily amount outstanding, during the year	_		84	_		161				
Maximum balance outstanding, during the year	1		518	2		1,000				
Total repurchase agreement contract amount outstanding, end of year	\$ 	\$		\$ 	\$					
Supplemental information - interest income:										
Repo operations	\$ _	\$	_	\$ _	\$	_				
FIMA Repo Facility	_		_	_		1				
Total interest income - securities purchased under agreements to resell	\$ _	\$	_	\$ _	\$	1				

There were no outstanding repurchase agreement contracts that were transacted with primary dealers, eligible counterparties, and foreign official and international account holders as of December 31, 2022.

Financial information related to reverse repurchase agreements allocated to the Bank and held in the SOMA for the years ended December 31, 2022 and 2021 was as follows (in millions):

	Allocated t	o the	Bank	Total	SOMA	
	2022		2021	2022		2021
Primary dealers and expanded counterparties:						
Contract amount outstanding, end of year	\$ 1,309,295	\$	1,076,576	\$ 2,553,716	\$	1,904,582
Average daily amount outstanding, during the year	1,048,314		405,451	1,997,187		717,540
Maximum balance outstanding, during the year	1,309,295		1,076,576	2,553,716		1,904,582
Securities pledged (par value), end of year	1,409,800		1,042,388	2,749,747		1,844,099
Securities pledged (fair value), end of year	1,285,955		1,077,362	2,508,194		1,905,973
Foreign official and international accounts:						
Contract amount outstanding, end of year	\$ 172,185	\$	157,401	\$ 335,839	\$	278,459
Average daily amount outstanding, during the year	152,925		138,960	290,552		251,068
Maximum balance outstanding, during the year	195,130		178,173	380,593		315,208
Securities pledged (par value), end of year	200,225		155,130	390,529		274,442
Securities pledged (fair value), end of year	172,209		157,408	335,886		278,472
Total reverse repurchase agreement contract amount outstanding, end						
of year	\$ 1,481,480	\$	1,233,977	\$ 2,889,555	\$	2,183,041
Supplemental information - interest expense:						
Primary dealers and expanded counterparties	\$ 18,823	\$	190	\$ 36,655	\$	337
Foreign official and international accounts	2,728		44	5,312		77
Total interest expense - securities sold under agreements to						
repurchase	\$ 21,551	\$	234	\$ 41,967	\$	414

Securities pledged as collateral, at December 31, 2022 and 2021, consisted solely of Treasury securities. The contract amount outstanding as of December 31, 2022 of reverse repurchase agreements that were transacted with primary dealers and expanded counterparties had a remaining term of one business day and matured on January 3, 2023. The contract amount outstanding as of December 31, 2022 of reverse repurchase agreements that were transacted with foreign official and international account holders had a remaining term of one business day and matured on January 3, 2023.

The remaining maturity distribution of Treasury securities, federal agency and GSE MBS, GSE debt securities, repurchase agreements, and reverse repurchase agreements that were allocated to the Bank at December 31, 2022 and 2021 was as follows (in millions):

	١	Vithin 15 days	16	days to 90 days	91	days to 1 year	Ov	er 1 year to 5 years	Over 5 years to 10 years	Over 10 years	Total
December 31, 2022:											
Treasury securities (par value)	\$	46,799	\$	189,414	\$	369,810	\$	982,065	\$ 480,520	\$ 750,920	\$ 2,819,528
Federal agency and GSE residential MBS (par value) <sup>1</sup>		_		1		18		1,824	23,226	1,324,827	1,349,896
Federal agency and GSE commercial MBS (par value) <sup>1</sup>		_		_		_		237	2,398	1,720	4,355
GSE debt securities (par value)		_		_		_		_	1,203	_	1,203
Securities purchased under agreements to resell (contract amount)		_		_		_		_	_	_	-
Securities sold under agreements to repurchase (contract amount)		1,481,480		-		-		_	-	_	1,481,480
December 31, 2021:											
Treasury securities (par value)	\$	31,074	\$	198,641	\$	411,167	\$	1,213,097	\$ 576,132	\$ 765,022	\$ 3,195,133
Federal agency and GSE residential MBS (par value) <sup>1</sup>		_		_		15		955	31,265	1,440,997	1,473,232
Federal agency and GSE commercial MBS (par value) <sup>1</sup>		_		_		_		64	2,837	2,321	5,222
GSE debt securities (par value)		_		_		_		_	1,207	120	1,327
Securities purchased under agreements to resell (contract amount)		_		_		_		_	_	_	-
Securities sold under agreements to repurchase (contract amount)		1,233,977		_		-		_	_	_	1,233,977

<sup>&</sup>lt;sup>1</sup> The par amount shown for federal agency and GSE residential MBS and commercial MBS is the remaining principal balance of the securities.

Federal agency and GSE MBS are reported at stated maturity in the table above. The estimated weighted-average life of these securities differs from the stated maturity primarily because it factors in scheduled payments and prepayment assumptions. The estimated weighted-average lives of RMBS and CMBS as of December 31, 2022 and 2021 were as follows (in years):

	2022	2021
Estimated weighted-average life of		
RMBS	9.0	5.7
CMBS	7.4	8.3

The amortized cost and par value of Treasury securities and GSE debt securities that were loaned from the SOMA under securities lending agreements allocated to the Bank and held in the SOMA at December 31, 2022 and 2021 were as follows (in millions):

	Allocated to	the	Bank	Total S	SOMA	4
	2022		2021	2022		2021
Treasury securities (amortized cost)	\$ 26,450	\$	23,027	\$ 51,590	\$	40,737
Treasury securities (par value)	26,335		22,887	51,366		40,489
GSE debt securities (amortized cost)	12		_	23		-
GSE debt securities (par value)	11		_	21		-

Securities pledged as collateral by the counterparties in the securities lending arrangements at December 31, 2022 and 2021 consisted solely of Treasury securities. The securities lending agreements outstanding as of December 31, 2022 had a term of one business day and matured on January 3, 2023.

The Bank enters into commitments to buy and sell Treasury securities and federal agency and GSE MBS and records the related securities on a settlement-date basis. As of December 31, 2022, the portions allocated to the Bank and total purchases and sales under outstanding commitments were as follows (in millions):

	Allocated to the Bank	Total SOMA	Contractual settlement dates through
Purchases under outstanding commitments			
Treasury securities	\$ 1,313	\$ 2,560	January 3, 2023
TBA RMBS	_	_	
CMBS	-	-	
Sales under outstanding commitments			
RMBS	\$ _	\$ -	
CMBS	-	-	

RMBS and CMBS commitments are subject to varying degrees of off-balance-sheet market risk and counterparty credit risk that result from their future settlement. The Bank requires the posting of cash margin for RMBS commitments as part of its risk management practices used to mitigate the counterparty credit risk.

Other assets held in the SOMA consist primarily of cash and short-term investments related to the federal agency and GSE MBS portfolio and were immaterial at December 31, 2022 and 2021.

Other liabilities include the Bank's accrued interest payable related to repurchase agreements transactions, obligations to return cash margin posted by counterparties as collateral under commitments to purchase and sell RMBS, and obligations that arise from the failure of a seller to deliver Treasury securities and RMBS and CMBS to the Bank on the settlement date. Although the Bank has ownership of and records its investments in Treasury securities and RMBS and CMBS as of the contractual settlement date, it is not obligated to make payment until

the securities are delivered, and the amount included in other liabilities represents the Bank's obligation to pay for the securities when delivered. The amount of other liabilities allocated to the Bank and held in the SOMA at December 31, 2022 and 2021 was as follows (in millions):

		Allocated to	o the Ba	nk		Total	SOMA	A
		2022		2021		2022		2021
Other liabilities:								
Accrued interest payable	\$	354	\$	2	\$	690	\$	3
Cash margin		_		1,333		_		2,359
Obligations from residential MBS transaction fails		_		7		_		12
Total other liabilities	\$	354	\$	1,342	\$	690	\$	2,374
	<u> </u>		<del></del>		<u> </u>		÷	,-

Accrued interest receivable on domestic securities held in the SOMA was \$34,228 million and \$30,929 million as of December 31, 2022 and 2021, respectively, of which \$17,549 million and \$17,483 million, respectively, was allocated to the Bank. These amounts are reported as a component of "System Open Market Account: Accrued interest receivable" in the Consolidated Statements of Condition.

Information about transactions related to Treasury securities, federal agency and GSE MBS, and GSE debt securities allocated to the Bank and held in the SOMA during the years ended December 31, 2022 and 2021 is summarized as follows (in millions):

		Allocated t	o the	Bank	
	Bills	Notes		Bonds	Total Treasury securities
Balance at December 31, 2020	\$ 168,756	\$ 1,622,433	\$	774,751	\$ 2,565,940
Purchases <sup>1</sup>	549,541	760,718		179,045	1,489,304
Sales <sup>1</sup>	_	(28)		_	(28)
Realized gains (losses), net <sup>2</sup>	_	_		_	_
Principal payments and maturities	(549,660)	(381,923)		(23,516)	(955,099)
Amortization of premiums and accretion of discounts, net	127	(12,900)		(5,924)	(18,697)
Inflation adjustment on inflation-indexed securities	_	7,852		5,976	13,828
Annual reallocation adjustment <sup>3</sup>	15,484	158,874		75,255	249,613
Subtotal of activity	 15,492	532,593		230,836	778,921
Balance at December 31, 2021	\$ 184,248	\$ 2,155,026	\$	1,005,587	\$ 3,344,861
Purchases <sup>1</sup>	506,356	276,632		56,661	839,649
Sales <sup>1</sup>	_	_		(11)	(11)
Realized gains (losses), net <sup>2</sup>	_	_		(3)	(3)
Principal payments and maturities	(528,766)	(401,390)		(5,875)	(936,031)
Amortization of premiums and accretion of discounts, net	2,210	(10,045)		(5,358)	(13,193)
Inflation adjustment on inflation-indexed securities	_	10,419		7,991	18,410
Annual reallocation adjustment <sup>3</sup>	(17,116)	(202,931)		(96,241)	(316,288)
Subtotal of activity	(37,316)	(327,315)		(42,836)	(407,467)
Balance at December 31, 2022	\$ 146,932	\$ 1,827,711	\$	962,751	\$ 2,937,394
Year-ended December 31, 2021					
Supplemental information - par value of transactions:					
Purchases <sup>4</sup>	\$ 549,660	\$ 751,755	\$	170,353	\$ 1,471,768
Sales	_	(28)		_	(28)
Year-ended December 31, 2022					
Supplemental information - par value of transactions:					
Purchases <sup>4</sup>	\$ 510,042	\$ 277,431	\$	57,377	\$ 844,850
Sales	_	_		(13)	(13)

<sup>&</sup>lt;sup>1</sup> Purchases and sales may include payments and receipts related to principal, premiums, discounts, and inflation compensation adjustments to the basis of inflation-indexed securities. The amount reported as sales includes the realized gains and losses on such transactions.

 $<sup>^{2}</sup>$  Realized gains (losses), net is the offset of the amount of realized gains and losses included in the reported sales amount.

<sup>&</sup>lt;sup>3</sup> Reflects the annual adjustment to the Bank's allocated portion of the related SOMA securities that results from the annual settlement of the interdistrict settlement account, as discussed in Note 3k.

 $<sup>^{\</sup>rm 4}\, {\rm Includes}$  inflation compensation.

		Total	SOM	A	
	Bills	Notes		Bonds	tal Treasury securities
Balance at December 31, 2020	\$ 325,937	\$ 3,133,576	\$	1,496,358	\$ 4,955,871
Purchases <sup>1</sup>	996,069	1,380,267		324,921	2,701,257
Sales <sup>1</sup>	_	(50)		_	(50)
Realized gains (losses), net <sup>2</sup>	_	_		_	_
Principal payments and maturities	(996,284)	(691,911)		(42,195)	(1,730,390)
Amortization of premiums and accretion of discounts, net	234	(23,435)		(10,772)	(33,973)
Inflation adjustment on inflation-indexed securities	_	14,029		10,682	24,711
Subtotal of activity	 19	678,900		282,636	961,555
Balance at December 31, 2021	\$ 325,956	\$ 3,812,476	\$	1,778,994	\$ 5,917,426
Purchases <sup>1</sup>	958,843	514,065		105,271	1,578,179
Sales <sup>1</sup>	_	_		(21)	(21)
Realized gains (losses), net <sup>2</sup>	_	_		(5)	(5)
Principal payments and maturities	(1,002,507)	(762,463)		(11,460)	(1,776,430)
Amortization of premiums and accretion of discounts, net	4,293	(18,981)		(10,156)	(24,844)
Inflation adjustment on inflation-indexed securities	_	19,766		15,176	34,942
Subtotal of activity	 (39,371)	(247,613)		98,805	(188,179)
Balance at December 31, 2022	\$ 286,585	\$ 3,564,863	\$	1,877,799	\$ 5,729,247
Year-ended December 31, 2021					
Supplemental information - par value of transactions:					
Purchases <sup>3</sup>	\$ 996,284	\$ 1,363,886	\$	309,172	\$ 2,669,342
Sales	_	(50)		-	(50)
Year-ended December 31, 2022					
Supplemental information - par value of transactions:					
Purchases <sup>3</sup>	\$ 965,988	\$ 515,609	\$	106,728	\$ 1,588,325
Sales	_	_		(25)	(25)

<sup>&</sup>lt;sup>1</sup> Purchases and sales may include payments and receipts related to principal, premiums, discounts, and inflation compensation adjustments to the basis of inflationindexed securities. The amount reported as sales includes the realized gains and losses on such transactions.

Realized gains (losses), net is the offset of the amount of realized gains and losses included in the reported sales amount.

<sup>&</sup>lt;sup>3</sup> Includes inflation compensation.

			Allocated	to the	Bank	
					ıl federal agency	
	Res	idential MBS	Commercial MBS		and GSE MBS	GSE debt securities
Balance at December 31, 2020	\$	1,086,645	\$ 5,676	\$	1,092,321	\$ 1,364
Purchases <sup>1</sup>		794,068	170		794,238	-
Sales <sup>1</sup>		(140)	-		(140)	-
Realized gains (losses), net <sup>2</sup>		_	-		_	-
Principal payments and maturities		(460,679)	(505)	)	(461,184)	_
Amortization of premiums and accretion of discounts, net		(16,976)	(90	)	(17,066)	(13)
Annual reallocation adjustment <sup>3</sup>		109,174	521		109,695	124
Subtotal of activity		425,447	96		425,543	111
Balance at December 31, 2021	\$	1,512,092	\$ 5,772	\$	1,517,864	\$ 1,475
Purchases <sup>1</sup>		219,931	-		219,931	_
Sales <sup>1</sup>		(181)	-		(181)	_
Realized gains (losses), net 2		(14)	_		(14)	_
Principal payments and maturities		(200,059)	(393	)	(200,452)	_
Amortization of premiums and accretion of discounts, net		(6,571)	(87	)	(6,658)	(13)
Annual reallocation adjustment <sup>3</sup>		(146,913)	(522	)	(147,435)	(137)
Subtotal of activity		(133,807)	(1,002	)	(134,809)	(150)
Balance at December 31, 2022	\$	1,378,285	\$ 4,770	\$	1,383,055	\$ 1,325
Year-ended December 31, 2021						
Supplemental information - par value of transactions:						
Purchases	\$	777,445	\$ 162	\$	777,607	\$ -
Sales		(137)	-		(137)	_
Year-ended December 31, 2022						
Supplemental information - par value of transactions:						
Purchases	\$	220,450	\$ -	\$	220,450	\$ -
Sales		(191)	_		(191)	_

<sup>&</sup>lt;sup>1</sup> Purchases and sales may include payments and receipts related to principal, premiums, and discounts. The amount reported as sales includes the realized gains and losses on such transactions. Purchases and sales exclude TBA MBS transactions that are settled on a net basis.

<sup>&</sup>lt;sup>2</sup> Realized gains (losses), net is the offset of the amount of realized gains and losses included in the reported sales amount.

<sup>&</sup>lt;sup>3</sup> Reflects the annual adjustment to the Bank's allocated portion of the related SOMA securities that results from the annual settlement of the interdistrict settlement account, as discussed in Note 3k.

				Total	SOMA		
	R	esidential MBS	Comm	ercial MBS		federal agency nd GSE MBS	GSE debt securities
Balance at December 31, 2020	\$	2,098,753	\$	10,962	\$	2,109,715	\$ 2,634
Purchases <sup>1</sup>		1,444,058		328		1,444,386	-
Sales <sup>1</sup>		(255)		_		(255)	-
Realized gains (losses), net <sup>2</sup>		1		-		1	_
Principal payments and maturities		(836,672)		(916)		(837,588)	-
Amortization of premiums and accretion of discounts, net		(30,828)		(163)		(30,991)	(24
Subtotal of activity		576,304		(751)		575,553	(24
Balance at December 31, 2021	\$	2,675,057	\$	10,211	\$	2,685,268	\$ 2,610
Purchases <sup>1</sup>		402,649		_		402,649	_
Sales <sup>1</sup>		(345)		_		(345)	_
Realized gains (losses), net <sup>2</sup>		(28)		_		(28)	_
Principal payments and maturities		(376,705)		(744)		(377,449)	_
Amortization of premiums and accretion of discounts, net		(12,348)		(164)		(12,512)	(26
Subtotal of activity		13,223		(908)		12,315	(26
Balance at December 31, 2022	\$	2,688,280	\$	9,303	\$	2,697,583	\$ 2,584
Year-ended December 31, 2021							
Supplemental information - par value of transactions:							
Purchases	\$	1,413,602	\$	313	\$	1,413,915	\$ -
Sales		(248)		_		(248)	-
Year-ended December 31, 2022							
Supplemental information - par value of transactions:							
Purchases	\$	403,669	\$	_	\$	403,669	\$ -
Sales		(365)		_		(365)	_

<sup>&</sup>lt;sup>1</sup> Purchases and sales may include payments and receipts related to principal, premiums, and discounts. The amount reported as sales includes the realized gains and losses on such transactions. Purchases and sales exclude TBA MBS transactions that are settled on a net basis.

## **b. Foreign Currency Denominated Investments**

The Bank conducts foreign currency operations and, on behalf of the Reserve Banks, holds the resulting three types of foreign currency denominated investments in the SOMA.

The Bank holds foreign currency deposits with foreign central banks and with the Bank for International Settlements (BIS). The Bank also invests in foreign government debt instruments of France, Germany, the Netherlands, and Japan. These foreign government debt instruments are backed by the full faith and credit of the issuing foreign governments. In addition, the Bank may enter into repurchase agreements to purchase government debt securities for which the accepted collateral is the debt instruments issued by a foreign government.

The Bank's allocated share of activity related to foreign currency denominated investments was 34.825 percent and 33.605 percent at December 31, 2022 and 2021, respectively.

<sup>&</sup>lt;sup>2</sup> Realized gains (losses), net is the offset of the amount of realized gains and losses included in the reported sales amount.

Information about foreign currency denominated investments recorded at amortized cost and valued at foreign currency market exchange rates allocated to the Bank and held in the SOMA at December 31, 2022 and 2021 was as follows (in millions):

	Allocated t	o the E	Bank	Total	SOMA	
	2022		2021	2022		2021
Euro:						
Foreign currency deposits	\$ 2,470	\$	2,210	\$ 7,092	\$	6,576
Dutch government debt instruments	384		602	1,103		1,791
French government debt instruments	902		978	2,591		2,910
German government debt instruments	240		313	688		932
Japanese yen:						
Foreign currency deposits	\$ 2,468	\$	2,542	\$ 7,088	\$	7,564
Japanese government debt instruments	1		187	3		557
Total	\$ 6,465	\$	6,832	\$ 18,565	\$	20,330

At December 31, 2022 and 2021, there were no repurchase agreements outstanding and, consequently, no related foreign securities held as collateral.

As of December 31, 2022 and 2021, total net interest income earned on foreign currency denominated investments allocated to the Bank and held in the SOMA were as follows (in millions):

	Allocated to	the B	ank	Total	SOMA	
	2022		2021	2022	2021	
Net interest income: 1						
Euro	\$ (1)	\$	(15)	\$ (2)	\$	(44)
Japanese yen	 _			(1)		(1)
Total	\$ (1)	\$	(15)	\$ (3)	\$	(45)

<sup>&</sup>lt;sup>1</sup>As a result of negative interest rates in certain foreign currency denominated investments held in the SOMA, interest income on foreign currency denominated investments, net contains negative interest of \$34 million and \$55 million for the years ended December 31, 2022 and 2021, respectively, of which \$12 million and \$18 million, respectively, were allocated to the Bank.

Accrued interest receivable on foreign currency denominated investments, net was \$48 million and \$47 million as of December 31, 2022 and 2021, respectively, of which \$17 million and \$16 million, respectively, was allocated to the Bank. These amounts are reported as a component of "System Open Market Account: Accrued interest receivable" in the Consolidated Statements of Condition.

The remaining maturity distribution of foreign currency denominated investments that were allocated to the Bank at December 31, 2022 and 2021 was as follows (in millions):

Within 15 days	16 days to 90 days		91 days to 1 year		Ov	er 1 year to 5 years		-		Total
\$ 2,494	\$	_	\$	67	\$	1,032	\$	403	\$	3,996
2,468		_		_		1		_		2,469
\$ 4,962	\$		\$	67	\$	1,033	\$	403	\$	6,465
\$ 722	\$	_	\$	1,791	\$	727	\$	863	\$	4,103
2,541		8		179		1		_		2,729
\$ 3,263	\$	8	\$	1,970	\$	728	\$	863	\$	6,832
1	\$ 2,494 2,468 <b>\$ 4,962</b> \$ 722 2,541	\$ 2,494 \$ 2,468 \$ \$ 4,962 \$ \$ \$ 2,541	\$ 2,494 \$ - 2,468 - \$ 4,962 \$ -  \$ 722 \$ - 2,541 8	\$ 2,494 \$ - \$ 2,468 - \$ \$ 4,962 \$ - \$  \$ 722 \$ - \$ 2,541 8	\$ 2,494 \$ - \$ 67 2,468 \$ 4,962 \$ - \$ 67  \$ 722 \$ - \$ 1,791 2,541 8 179	15 days     90 days     1 year       \$ 2,494 \$ - \$ 67 \$ 2,468 \$ 67 \$ \$       \$ 4,962 \$ - \$ 67 \$ \$       \$ 722 \$ - \$ 1,791 \$       2,541 8 179	15 days     90 days     1 year     years       \$ 2,494 \$ - \$ 67 \$ 1,032       2,468 1     1       \$ 4,962 \$ - \$ 67 \$ 1,033       \$ 722 \$ - \$ 1,791 \$ 727       2,541 8 179 1	15 days     90 days     1 year     years       \$ 2,494 \$ - \$ 67 \$ 1,032 \$ 2,468 1 \$ 67 \$ 1,033 \$ \$ \$ \$ \$ 4,962 \$ 5 - \$ 67 \$ 1,033 \$ \$ \$ \$ \$ \$ \$ 1,033 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	15 days     90 days     1 year     years     10 years       \$ 2,494 \$ - \$ 67 \$ 1,032 \$ 403       2,468 \$ 1 - 1     1     1       \$ 4,962 \$ - \$ 67 \$ 1,033 \$ 403       \$ 722 \$ - \$ 1,791 \$ 727 \$ 863       2,541 8 179 1	15 days     90 days     1 year     years     10 years       \$ 2,494 \$ - \$ 67 \$ 1,032 \$ 403 \$ 2,468 1

There were no foreign exchange contracts related to foreign currency operations outstanding as of December 31, 2022.

The Bank enters into commitments to buy foreign government debt instruments and records the related securities on a settlement-date basis. As of December 31, 2022, there were no outstanding commitments to purchase foreign government debt instruments. During 2022, there were purchases, sales, and maturities of foreign government debt instruments of \$829 million, \$11 million, and \$2,121 million, respectively, of which \$288 million, \$4 million, and \$731 million, respectively, were allocated to the Bank. Sales of \$11 million includes immaterial realized losses.

In connection with its foreign currency activities, the Bank may enter into transactions that are subject to varying degrees of off-balance-sheet market risk and counterparty credit risk that result from their future settlement. The Bank controls these risks by obtaining credit approvals, establishing transaction limits, receiving collateral in some cases, and performing monitoring procedures.

Foreign currency working balances held and foreign exchange contracts executed by the Bank to facilitate international payments and currency transactions made on behalf of foreign central banks and U.S. official institution customers were immaterial as of December 31, 2022 and 2021.

## c. Central Bank Liquidity Swaps

## **U.S. Dollar Liquidity Swaps**

The FOMC authorized and directed the Bank to expand standing U.S. dollar liquidity swap arrangements with the Bank of Canada, the Bank of England, the Bank of Japan, the European Central Bank, and the Swiss National Bank as well as establish temporary swap U.S. dollar liquidity lines to the Reserve Bank of Australia, Banco Central de Brasil, Danmarks Nationalbank, the Bank of Korea, Banco de Mexico, the Norges Bank, the Reserve Bank of New Zealand, the Monetary Authority of Singapore, and Sveriges Riksbank. The temporary swap lines expired on December 31, 2021.

The Bank's allocated share of U.S. dollar liquidity swaps was 34.825 percent and 33.605 percent at December 31, 2022 and 2021, respectively.

Total foreign currency held in the SOMA under U.S. dollar liquidity swaps at December 31, 2022 and 2021 was \$412 million and \$3,340 million, respectively, of which \$144 million and \$1,122 million, respectively, was allocated to the Bank.

The remaining maturity distribution of U.S. dollar liquidity swaps that were allocated to the Bank at December 31, 2022 and 2021 was as follows (in millions):

		2022		2021									
Currency swap transacted in	Within 15 days	16 days to 90 days	Total	Within 15 days	16 days to 90 days	Total							
Euro	144	_	144	316	_	316							
Mexican peso	-	-	-	-	17	17							
Swiss franc	-	-	-	789	-	789							
Total	\$ 144	\$ -	\$ 144	\$ 1,105	\$ 17	\$ 1,122							

Net income earned on U.S. dollar liquidity swaps is reported as "System Open Market Account: Central bank liquidity swaps" in the Consolidated Statements of Operations.

#### **Foreign Currency Liquidity Swaps**

At December 31, 2022 and 2021, there was no balance outstanding related to foreign currency liquidity swaps.

#### d. Fair Value of SOMA Assets and Liabilities

The fair value amounts below are presented solely for informational purposes and are not intended to comply with the fair value disclosures required by FASB ASC 820, Fair Value Measurement. Although the fair value of SOMA security holdings can be substantially greater than or less than the recorded value at any point in time, these unrealized gains or losses have no effect on the ability of the Reserve Banks, as the central bank, to meet their financial obligations and responsibilities. Because SOMA securities are recorded at amortized cost, cumulative unrealized gains (losses) are not recognized in the Consolidated Statements of Condition and the changes in cumulative unrealized gains (losses) are not recognized in the Consolidated Statements of Operations.

The fair value of the Treasury securities, federal agency and GSE MBS, GSE debt securities, and foreign government debt instruments held in the SOMA is subject to market risk, arising from movements in market variables such as interest rates and credit risk. The fair value of federal agency and GSE MBS is also affected by the expected rate of prepayments of mortgage loans underlying the securities. The fair value of foreign government

debt instruments is also affected by currency risk. Based on evaluations performed as of December 31, 2022 and 2021, there are no credit impairments of SOMA securities holdings.

The following table presents the amortized cost, fair value, and cumulative unrealized gains (losses) on the Treasury securities, federal agency and GSE MBS, and GSE debt securities allocated to the Bank and held in the SOMA at December 31 2022 and 2021 (in millions):

						Allocated t	o the	e Bank				
				2022						2021		
	Am	ortized cost		Fair value		Cumulative nrealized gains (losses), net	۸۰	mortized cost		Fair value	l	Cumulative inrealized gains (losses), net
Treasury securities	AIII	oruzeu cost		raii value		(losses), liet	Ai	Hortizeu Cost		raii value		(1055e5), Het
Bills	\$	146,932	¢	146,824	¢	(108)	¢	184,248	¢	184,233	¢	/15
	Þ	,	ф		Þ	` ,	ф		ф	,	ф	` '
Notes		1,827,711		1,684,365		(143,346)		2,155,026		2,149,349		(5,677)
Bonds		962,751		761,238	_	(201,513)		1,005,587		1,087,379	_	81,792
Total Treasury securities		2,937,394		2,592,427		(344,967)		3,344,861		3,420,961		76,100
Federal agency and GSE MBS												
Residential	\$	1,378,285	\$	1,170,082	\$	(208,203)	\$	1,512,092	\$	1,507,963	\$	(4,129)
Commercial		4,770		3,963		(807)		5,772		5,691		(81)
Total federal agency and GSE MBS		1,383,055		1,174,045		(209,010)		1,517,864		1,513,654		(4,210)
GSE debt securities		1,325		1,403		78		1,475		1,864		389
Total domestic SOMA portfolio securities holdings	\$	4,321,774	\$	3,767,875	\$	(553,899)	\$	4,864,200	\$	4,936,479	\$	72,279
Memorandum—Commitments for purchases of:											_	
Treasury securities <sup>1</sup>	\$	1,313	¢	1,313	¢		\$	2,642	¢	2,642	¢	
,	Ф	1,313	Ф	1,313	Ф	_	Ф		Ф	,	Ф	
Federal agency and GSE MBS <sup>1</sup>		_		_		_		55,805		55,787		(18
Memorandum—Commitments for sales of:												
Treasury securities <sup>2</sup>	\$	_	\$	-	\$	_	\$	_	\$	_	\$	-
Federal agency and GSE MBS <sup>2</sup>		_		_		_		49		49		_

 $<sup>^{\</sup>rm 1}{\rm The}$  amortized cost column presents unsettled purchase costs.

<sup>&</sup>lt;sup>2</sup>The amortized cost column presents unsettled sales proceeds.

						Total	SOM	<b>A</b>					
				2022						2021			
	Am	ortized cost	t Fair value			Cumulative unrealized gains (losses), net Amortized cost Fair v		unrealized gains		st Fair value			Cumulative nrealized gains (losses), net
Treasury securities	•												
Bills	\$	286,585	\$	286,373	\$	(212)	\$	325,956	\$	325,929	\$	(27)	
Notes		3,564,863		3,285,274		(279,589)		3,812,476		3,802,434		(10,042)	
Bonds		1,877,799		1,484,758		(393,041)		1,778,994		1,923,692		144,698	
Total Treasury securities		5,729,247		5,056,405	_	(672,842)		5,917,426		6,052,055		134,629	
Federal agency and GSE MBS													
Residential	\$	2,688,280	\$	2,282,190	\$	(406,090)	\$	2,675,057	\$	2,667,752	\$	(7,305)	
Commercial		9,303		7,729		(1,574)		10,211		10,068		(143)	
Total federal agency and GSE MBS		2,697,583		2,289,919		(407,664)		2,685,268		2,677,820		(7,448)	
GSE debt securities		2,584		2,736		152		2,610		3,298		688	
Total domestic SOMA portfolio securities holdings	\$	8,429,414	\$	7,349,060	\$	(1,080,354)	\$	8,605,304	\$	8,733,173	\$	127,869	
Memorandum—Commitments for purchases of:													
Treasury securities <sup>1</sup>	\$	2,560	\$	2,560	\$	_	\$	4,674	\$	4,674	\$	_	
Federal agency and GSE MBS <sup>1</sup>		-		_		_		98,724		98,693		(31)	
Memorandum—Commitments for sales of:													
Treasury securities <sup>2</sup>	\$	-	\$	_	\$	_	\$	_	\$	_	\$	-	
Federal agency and GSE MBS <sup>2</sup>		_		_		_		87		87		_	

<sup>&</sup>lt;sup>1</sup>The amortized cost column presents unsettled purchase costs.

The fair value of Treasury securities and GSE debt securities was determined using pricing services that provide market consensus prices based on indicative quotes from various market participants. The fair value of federal agency and GSE MBS were determined using pricing services that utilize a model-based approach that considers observable inputs for similar securities.

The cost bases of repurchase agreements, reverse repurchase agreements, central bank liquidity swaps, and other investments held in the SOMA portfolio approximate fair value. Due to the short-term nature of these agreements and the defined amount that will be received upon settlement, the cost basis approximates fair value.

At December 31, 2022 and 2021, the fair value of foreign currency denominated investments held in the SOMA was \$18,112 million and \$20,398 million, respectively, of which \$6,308 million and \$6,855 million, respectively, was allocated to the Bank. The fair value of foreign government debt instruments was determined using pricing

 $<sup>^{\</sup>rm 2}{\rm The}$  amortized cost column presents unsettled sales proceeds.

services that provide market consensus prices based on indicative quotes from various market participants. Due to the short-term nature of foreign currency deposits, the cost basis is estimated to approximate fair value.

The following tables provide additional information on the amortized cost and fair value of the federal agency and GSE MBS portfolios allocated to the Bank and held in the SOMA at December 31, 2022 and 2021 (in millions):

	Allocated to the Bank												
		20	22			20	021						
Distribution of MBS holdings by coupon rate	Am	ortized cost		Fair value	An	nortized cost		Fair value					
Residential	•												
1.5%	\$	86,524	\$	71,574	\$	99,613	\$	97,788					
2.0%		530,248		433,864		595,495		585,655					
2.5%		384,934		322,449		416,394		411,682					
3.0%		164,716		145,271		189,241		192,262					
3.5%		107,816		98,343		122,353		126,597					
4.0%		66,797		62,391		64,609		67,413					
4.5%		27,776		26,840		16,942		18,297					
5.0%		8,276		8,143		5,787		6,431					
5.5%		1,029		1,036		1,425		1,579					
6.0%		148		149		204		227					
6.5%		21		22		29		32					
Total	\$	1,378,285	\$	1,170,082	\$	1,512,092	\$	1,507,963					
Commercial													
1.00% - 1.50%	\$	47	\$	36	\$	52	\$	49					
1.51% - 2.00%		228		178		284		274					
2.01% - 2.50%		527		430		637		624					
2.51% - 3.00%		725		600		901		886					
3.01% - 3.50%		1,501		1,245		1,781		1,763					
3.51% - 4.00%		1,603		1,359		1,950		1,932					
4.01% - 4.50%		139		115		167		163					
Total	\$	4,770	\$	3,963	\$	5,772	\$	5,691					
Total MBS	\$	1,383,055	\$	1,174,045	\$	1,517,864	\$	1,513,654					

				Total	SOMA	1		
		20	22			20	21	
Distribution of MBS holdings by coupon rate	Am	ortized cost		Fair value	А	mortized cost		Fair value
Residential								
1.5%	\$	168,762	\$	139,602	\$	176,227	\$	172,999
2.0%		1,034,220		846,233		1,053,493		1,036,086
2.5%		750,796		628,922		736,648		728,310
3.0%		321,270		283,344		334,788		340,133
3.5%		210,290		191,813		216,456		223,964
4.0%		130,284		121,691		114,300		119,260
4.5%		54,176		52,350		29,973		32,369
5.0%		16,143		15,883		10,238		11,377
5.5%		2,007		2,020		2,521		2,794
6.0%		290		290		361		402
6.5%		42		42		52		58
Total	\$	2,688,280	\$	2,282,190	\$	2,675,057	\$	2,667,752
Commercial								
1.00% - 1.50%	\$	91	\$	71	\$	92	\$	87
1.51% - 2.00%		445		346		503		485
2.01% - 2.50%		1,027		838		1,128		1,104
2.51% - 3.00%		1,413		1,171		1,593		1,567
3.01% - 3.50%		2,928		2,428		3,151		3,119
3.51% - 4.00%		3,127		2,651		3,448		3,417
4.01% - 4.50%		272		224		296		289
Total	\$	9,303	\$	7,729	\$	10,211	\$	10,068
Total MBS	\$	2,697,583	\$	2,289,919	\$	2,685,268	\$	2,677,820

The following tables present the realized gains (losses) and the change in the cumulative unrealized gains (losses) related to SOMA domestic securities holdings allocated to the Bank and held in the SOMA during the years ended December 31, 2022 and 2021 (in millions):

	Allocated to the Bank											
		20:			20	21						
		ed gains ), net <sup>1, 2</sup>	cum unreali	inge in Julative Ized gains Ses) <sup>3, 4</sup>		ized gains es), net <sup>1, 2</sup>	ı	Change in cumulative unrealized gains (losses) <sup>3, 4</sup>				
Treasury securities	\$	(3)	\$	(436,166)	\$	_	\$	(83,596)				
Federal agency and GSE MBS												
Residential		(126)		(215,070)		(14)		(33,625)				
Commercial		_		(781)		_		(174)				
Total federal agency and GSE MBS		(126)		(215,851)		(14)		(33,799)				
GSE debt securities		_		(290)		-		(118)				
Total	\$	(129)	\$	(652,307)	\$	(14)	\$	(117,513)				

<sup>&</sup>lt;sup>1</sup> Realized gains (losses) for Treasury securities are reported in "Other items of income (loss): System Open Market Account: Treasury securities losses, net" in the Consolidated Statements of Operations.

<sup>&</sup>lt;sup>4</sup> The amount reported as change in cumulative unrealized gains (losses) allocated to the Bank is affected by the annual adjustment to the Bank's allocated portion of the related SOMA securities, as discussed in Note 3f.

	Total SOMA												
	202		20	021									
	ed gains ), net <sup>1, 2</sup>	Change cumula unrealized (losses	tive I gains		ed gains ), net <sup>1, 2</sup>		Change in cumulative realized gains (losses) <sup>3</sup>						
Treasury securities	\$ (5)	\$	(807,471)	\$	_	\$	(164,056)						
Federal agency and GSE MBS													
Residential	(234)		(398,785)		(35)		(61,517)						
Commercial	_		(1,431)		_		(333)						
Total federal agency and GSE MBS	 (234)		(400,216)		(35)		(61,850)						
GSE debt securities	_		(536)		_		(222)						
Total	\$ (239)	\$ (1	,208,223)	\$	(35)	\$	(226,128)						

<sup>&</sup>lt;sup>1</sup> Realized gains (losses) for Treasury securities are reported in "Other items of income (loss): System Open Market Account: Treasury securities losses, net" in the Consolidated Statements of Operations.

The amount of change in cumulative unrealized gains (losses) position, net related to foreign currency denominated investments was a loss of \$520 million and a loss of \$102 million for the years ended December 31, 2022 and 2021, respectively, of which \$179 million and \$34 million, respectively, were allocated to the Bank. Realized gains (losses), net related to foreign currency denominated investments were immaterial for the years ended December 31, 2022 and 2021.

Treasury securities, federal agency and GSE MBS, GSE debt securities, and foreign government debt instruments are classified as Level 2 within the ASC 820 hierarchy because the fair values are based on indicative quotes and other observable inputs obtained from independent pricing services. The fair value hierarchy level of SOMA financial assets is not necessarily an indication of the risk associated with those assets.

<sup>&</sup>lt;sup>2</sup> Realized gains (losses) for federal agency and GSE MBS are reported in "Other items of income (loss): System Open Market Account: Federal agency and government-sponsored enterprise mortgage-backed securities losses, net" in the Consolidated Statements of Operations.

<sup>&</sup>lt;sup>3</sup> Because SOMA securities are recorded at amortized cost, the change in the cumulative unrealized gains (losses) is not reported in the Consolidated Statements of Operations.

<sup>&</sup>lt;sup>2</sup> Realized gains (losses) for federal agency and GSE MBS are reported in "Other items of income (loss): System Open Market Account: Federal agency and government-sponsored enterprise mortgage-backed securities losses, net" in the Consolidated Statements of Operations.

<sup>&</sup>lt;sup>3</sup> Because SOMA securities are recorded at amortized cost, the change in the cumulative unrealized gains (losses) is not reported in the Consolidated Statements of Operations.

# (6) CONSOLIDATED VARIABLE INTEREST ENTITIES

# a. Summary Information for Consolidated Variable Interest Entities

The consolidated financial statements include the accounts and results of operations of MLF and TALF II, and the terminated entities CPFF II and CCF. Purchases of portfolio assets or extensions of loans by the LLCs are funded by loans extended by the Bank. Intercompany balances and transactions are eliminated in consolidation. The assets and liabilities held by the LLCs are reported as "Consolidated variable interest entities: Assets held, net" and "Consolidated variable interest entities: Other liabilities," respectively, in the Consolidated Statements of Condition.

CPFF's authority to purchase commercial paper ended March 31, 2021. PMCCF and SMCCF's authority to purchase assets ended on December 31, 2020. The Board announced in June 2021 plans to wind down the CCF portfolio. The PMCCF held no assets and the SMCCF concluded sales in August 2021. Prior to the termination of CPFF II and CCF, all obligations were repaid, and the remaining assets were distributed to the Bank and Treasury, in accordance with the respective Amended and Restated LLC Agreements of CPFF II and CCF.

The classification of assets and liabilities of the consolidated VIEs as of December 31, 2022 and 2021 are as follows (in millions):

			2022	
		MLF	TALF II	Total
Assets				
Cash and cash equivalents <sup>1</sup>	\$	101	\$ 54	\$ 155
Short-term investments in non-marketable securities <sup>2</sup>		2,482	887	3,369
Municipal notes <sup>3</sup>		2,907	_	2,907
Loans <sup>4</sup>		_	996	996
Other assets		80	19	99
Total assets, net	\$	5,570	\$ 1,956	\$ 7,526
Liabilities		1	1	2
Net assets and liabilities	\$	5,569	\$ 1,955	\$ 7,524

<sup>&</sup>lt;sup>1</sup>The related asset and deposit liabilities of the VIEs and Bank, respectively, are excluded from this line. The portion of Treasury's preferred equity contributions invested in cash and cash equivalents at the Bank were as follows as of December 31, 2022: \$436 million in the MLF and \$156 million in the TALF II.

<sup>&</sup>lt;sup>2</sup> Represents the portion of the Treasury preferred equity contribution to the credit facilities, which are held as short-term investments in non-marketable securities at amortized cost and the related earnings on those investments.

<sup>&</sup>lt;sup>3</sup> Reported at amortized cost.

<sup>&</sup>lt;sup>4</sup> Reported at principal amount outstanding.

		2021											
	N	ILF	1	TALF II		Total							
Assets													
Cash and cash equivalents <sup>1</sup>	\$	1	\$	32	\$	33							
Short-term investments in non-marketable securities <sup>2</sup>		3,594		1,163		4,757							
Short-term investments <sup>3</sup>		59		_		59							
Municipal notes <sup>4</sup>		4,131		_		4,131							
Loans <sup>5</sup>		_		1,346		1,346							
Other assets		79		60		139							
Total assets, net	\$	7,864	\$	2,601	\$	10,465							
Liabilities		3		1		4							
Net assets and liabilities	\$	7,861	\$	2,600	\$	10,461							

<sup>&</sup>lt;sup>1</sup>The related asset and deposit liabilities of the VIEs and Bank, respectively, are excluded from this line. The portion of Treasury's preferred equity contributions invested in cash and cash equivalents at the Bank were as follows as of December 31, 2021: \$634 million in the MLF and \$205 million in the TALF II.

The following tables present the components of the LLCs' net operating income (loss) recorded for the years ended December 31, 2022 and 2021 (in millions):

		2	022		
	MLF	TA	LF II		Total
Interest income <sup>1</sup>	\$ 83	\$	43	\$	126
Other items of income (loss):					
Fees	2		1		3
Total other items of income	2		1		3
Less: professional fees	1		1		2
Net income attributable to consolidated VIEs	\$ 84	\$	43	\$	127
Allocated to non-controlling Treasury interest	\$ 77	\$	22	\$	99
Allocated to Reserve Banks	\$ 7	\$	21	\$	28
Memorandum—Cumulative earnings distribution: <sup>2</sup> Non-controlling Treasury interest Reserve Banks	\$ -	\$	- -	\$	- -

<sup>&</sup>lt;sup>1</sup> Recorded when earned and includes amortization of premiums and accretion of discounts.

<sup>&</sup>lt;sup>2</sup> Represents the portion of the Treasury preferred equity contribution to the credit facilities, which are held as short-term investments in non-marketable securities at amortized cost and the related earnings on those investments.

<sup>&</sup>lt;sup>3</sup> Reported at fair value.

<sup>&</sup>lt;sup>4</sup> Reported at amortized cost.

 $<sup>^{\</sup>rm 5}$  Reported at principal amount outstanding.

<sup>&</sup>lt;sup>2</sup> Represents distribution of cumulative LLC earnings upon dissolution in accordance with the LLC's legal agreements.

			2021			
	CPFF II	CCF	MLF	TALF II		Total
Interest income <sup>1</sup>	\$ 1	\$ 37	\$ 109	\$	22	\$ 169
Other items of income (loss):						
Dividends	_	93	_		_	93
Fees	12	_	3		2	17
Other <sup>2</sup>	_	(101)	_		_	(101)
Total other items of income	12	(8)	3		2	9
Less: professional fees	2	2	1		2	7
Net income attributable to consolidated VIEs	\$ 11	\$ 27	\$ 111	\$	22	\$ 171
Allocated to non-controlling Treasury interest	\$ 9	\$ 17	\$ 95	\$	18	\$ 139
Allocated to Reserve Banks	\$ 2	\$ 10	\$ 16	\$	4	\$ 32
Memorandum—Cumulative earnings distribution: <sup>3</sup>	\$ 54	\$ 531	\$ _	\$	_	\$ 585
Non-controlling Treasury interest	49	480	_		_	529
Reserve Banks	5	51	-		-	56

<sup>&</sup>lt;sup>1</sup> Recorded when earned and includes amortization of premiums and accretion of discounts.

# At December 31, 2022 and 2021, the maturity distribution of the LLCs' holdings are as follows (in millions):

	2022								
		thin 15 days		6 days to 90 days	91	days to 1 year		r 1 year 5 years	Total
Cash equivalents	\$	55	\$	100	\$	_	\$	-	\$ 155
Short-term investments in non-marketable securities		3,369		_		_		-	3,369
Municipal notes		-		_		2,907		-	2,907
Loans		-		_		996		-	996
Total	\$	3,424	\$	100	\$	3,903	\$		\$ 7,427

2021									
			-	91	days to 1 year		-		Total
\$	33	\$	_	\$	-	\$	-	\$	33
	4,757		_		_		_		4,757
	_		_		59		_		59
	_		482		_		3,649		4,131
	_		_		_		1,346		1,346
\$	4,790	\$	482	\$	59	\$	4,995	\$	10,326
		4,757 - - -	\$ 33 \$ 4,757 — — — — — —	days     90 days       \$ 33 \$ -       4,757 -       -     -       -     482       -     -	days     90 days       \$ 33 \$ - \$       4,757 482	Within 15 days         16 days to 90 days         91 days to 1 year           \$ 33 \$ - \$ - 4,757         59           - 482	Within 15 days         16 days to 90 days         91 days to 1 year         Over to 5           \$ 33 \$ - \$ - \$ - \$           4,757 59         - 59           - 482	Within 15 days         16 days to 90 days         91 days to 1 year to 5 years         Over 1 year to 5 years           \$ 33         \$ -         \$ -         \$ -           4,757         -         -         -           -         59         -           -         482         -         3,649           -         -         -         1,346	Within 15 days         16 days to 90 days         91 days to 1 year         Over 1 year to 5 years           \$ 33 \$ - \$ - \$ - \$ - \$           4,757 59 482 3,649           - 3,649           - 1,346

#### **Credit Impairment**

Investments held by MLF are subject to review each reporting period to identify indications of possible credit impairment. Impairment is evaluated using numerous factors including collectability, liquidity and credit support, collateral, and the financial condition and near-term prospects of the issuer. If, after analyzing the above factors, an investment is determined to be impaired, then an evaluation is performed to determine if the impairment is

 $<sup>^{\</sup>rm 2}$  Includes realized and unrealized gains and losses on portfolio holdings.

<sup>&</sup>lt;sup>3</sup> Represents distribution of cumulative LLC earnings upon dissolution in accordance with the LLC's legal agreements.

other-than-temporary by considering whether it is probable that the LLC will be unable to collect substantially all of the contractual interest and principal payment on the maturity date of the investment. If the impairment is deemed to be other-than-temporary, the amortized cost of the individual security is written down to estimated fair value and a realized loss is recorded.

As of December 31, 2022 and 2021, there were no assets for which the Bank considered impairment to be other-than-temporary, no assets were impaired or restructured, and no allowance for credit impairment was required.

#### **Allowance for Loan Losses**

TALF II's loans are subject to review each reporting period to identify and evaluate loans that had indications of possible impairment. TALF II recognizes an allowance for loan loss for the loans when it is probable that TALF II will be unable to collect all amounts due, including both the contractual interest and principal payments under the loan agreement. Based on current information and events, if it is probable that a loan loss has been incurred and the amount of the loss can be reasonably estimated, a loan loss is recorded. As of December 31, 2022 and 2021, no loans were considered impaired, and there were no allowances for loan losses.

#### b. Fair Value

There was no material difference between the cost and fair value amounts of \$155 million of cash equivalents at December 31, 2022 and \$33 million of cash equivalents and \$59 million of short-term investments at December 31, 2021.

The following table presents the LLCs' holdings at December 31, 2022 and 2021, reported at amortized cost (in millions). Fair value is provided as supplemental information.

			20	)22	
Assets at amortized cost		Amortized cost	Cumulative unrealized gains <sup>1</sup>	Cumulative unrealized losses <sup>1</sup>	Fair value
Short-term investments in non-marketable securities	\$	3,369	\$ -	\$ -	\$ 3,369
Municipal notes		2,907	-	(41)	2,866
Total	\$	6,276	\$ -	\$ (41)	\$ 6,235
	_				

<sup>&</sup>lt;sup>1</sup> Because the LLCs' holdings are recorded at amortized cost, unrealized gains (losses) are not reported in the Consolidated Statements of Operations.

		2021										
Assets at amortized cost	An	nortized cost	Cumulative Cumulative unrealized gains <sup>1</sup> unrealized losse					Fair value				
Short-term investments in non-marketable securities	\$	4,757	\$	_	\$	_	\$	4,757				
Municipal notes		4,131		83		_		4,214				
Total	\$	8,888	\$	83	\$	_	\$	8,971				

<sup>&</sup>lt;sup>1</sup> Because the LLCs' holdings are recorded at amortized cost, unrealized gains (losses) are not reported in the Consolidated Statements of Operations.

Collateral associated with loans were assigned a lending value, reduced by a margin, upon initial extension of credit to determine the maximum amount TALF II could lend. The following table presents the loan principal and collateral fair value on TALF II's loans at December 31, 2022 and 2021 (in millions):

		20	22			202	)21		
	Loan (	principal		Collateral fair value <sup>1</sup>	Loan principal			Collateral fair value <sup>1</sup>	
Loans <sup>2</sup>	\$	996	\$	1,099	\$	1,346	\$	1,560	

<sup>&</sup>lt;sup>1</sup> Collateral fair value reflects the market value of collateral including accrued interest.

The following table presents the financial instruments recorded at fair value as of December 31, 2022 and 2021 by the FASB ASC 820, Fair Value Measurements & Disclosures hierarchy (in millions):

			202	22		
	Level 1		Level 2	L	evel 3	Total <sup>1</sup>
Cash equivalents	\$	55	\$ 100	\$	-	\$ 155

<sup>&</sup>lt;sup>1</sup> There were no transfers between levels during the year ended December 31, 2022.

	2021										
	Level 1		Level 2		Level 3		Total				
Cash equivalents	\$ 33	\$	-	\$	-	\$	33				
Short-term investments	_		59		_		59				
Total investments at fair value	\$ 33	\$	59	\$	_	\$	92				

<sup>&</sup>lt;sup>1</sup> There were no transfers between levels during the year ended December 31, 2021.

At December 31, 2022 and 2021, the ratings breakdown of LLC holdings are as follows (in millions):

			2022	
	Government,	/ agency	Not rated <sup>1</sup>	Total
Cash equivalents	\$	155	\$ -	\$ 155
Short-term investments in non-marketable securities		3,369	_	3,369
Municipal notes		_	2,907	2,907

<sup>&</sup>lt;sup>1</sup> Not rated categorization includes municipal notes with private ratings.

Note: Lowest of all ratings is used for the purpose of this table if rated by two or more nationally recognized statistical rating organizations.

			20	21		
	BBB+ to BBB-	G	overnment/ agency		Not rated <sup>1</sup>	Total
Cash equivalents	\$ -	\$	33	\$	-	\$ 33
Short-term investments in non-marketable securities	_		4,757		_	4,757
Short-term investments	-		59		_	59
Municipal notes	1,224		_		2,907	4,131

<sup>&</sup>lt;sup>1</sup> Not rated categorization includes municipal notes with private ratings.

Note: Lowest of all ratings is used for the purpose of this table if rated by two or more nationally recognized statistical rating organizations.

<sup>&</sup>lt;sup>2</sup> All loans are fully collateralized.

At December 31, 2022 and 2021, the ratings breakdown of the fair value of collateral securing TALF II's loans were as follows (in millions):

	2022						2021							
Collateral sector	AAA	(	Government/ agency		Total	AAA	(	Government/ agency		Total				
SBA loans	\$ -	\$	899	\$	899	\$ -	\$	1,146	\$	1,146				
Commercial mortgages	19		_		19	32		_		32				
Leveraged loans	181		_		181	382		_		382				
Total	\$ 200	\$	899	\$	1,099	\$ 414	\$	1,146	\$	1,560				

Note: Lowest of all ratings was used for the purpose of this table if rated by two or more nationally recognized statistical rating organizations.

#### c. Risk Profile

Short-term investments are subject to minimal interest rate and credit risk as these are principally short-term government-guaranteed investments.

Under MLF, credit-related risk on municipal securities arises from losses due to an inability of a particular issuer to repay its debt. MLF holds a municipal security issued by a transportation authority. Primary factors affecting a transportation authority's ability to service its debt include the general economic condition of the service area, ridership levels, the authority's own financial condition, and level of political and financial support from the city, state, and/or federal government. MLF's portfolio is subject to changes in general municipal market conditions. Certain notes may be repayable from proceeds of future bond issuances, or take-out bonds, and lack of market access would greatly increase risk of non-payment. In addition, deteriorating market conditions may make it more costly, or not possible, for issuers to raise liquidity or fund necessary capital projects.

TALF II investments are exposed to credit risk from the CMBS, collateralized loan obligations, and certain ABS collateralizing TALF loans. Credit losses far in excess of expectations on the pools of loans and receivables underlying these securities may result in a default on the payment of principal or interest on the securities, which in turn could result in credit impairment on the related loans. SBA ABS are backed by Small Business Administration loans guaranteed by the U.S. Government and therefore do not expose TALF II to credit losses. TALF II is also exposed to interest rate risk from the securities collateralizing loans, particularly securities that pay fixed rate coupons, as an increase in interest rates would lower the securities' fair value. TALF program terms permit borrowers to satisfy obligations under their loans by surrendering collateral securities in lieu of payment, and borrowers would be incented to do so if credit or market risk factors caused a decline in the securities' value in excess of margin on the related loans. As of December 31, 2022 and 2021, all TALF loans were fully collateralized and no securities collateralizing TALF loans had been thus surrendered.

# d. Contributions and Distributions of Treasury Equity

The following table presents the Treasury's contributions and distributions of capital, distributions of LLC earnings, and current year undistributed LLC earnings as of December 31, 2022 and 2021 (in millions), which are reported as "Consolidated variable interest entities: Non-controlling interest - capital (distribution)," "Consolidated variable interest entities: Non-controlling interest – (earnings distribution)," and "Consolidated variable interest entities: Income (loss), net," respectively, in the Consolidated Statements of Changes in Capital.

		CPFF II	CCF	MLF	TALF II	Total
Treasury's equity, January 1, 2021	\$	10,040	\$ 37,963	\$ 17,532	\$ 10,013	\$ 75,548
Capital (distribution)		(10,000)	(37,500)	(13,280)	(8,636)	(69,416)
Current year undistributed LLC earnings		9	17	95	18	139
Earnings distribution <sup>1</sup>		(49)	(480)	_	_	(529)
Treasury's equity, December 31, 2021	\$	_	\$ _	\$ 4,347	\$ 1,395	\$ 5,742
Capital (distribution)	_			(1,350)	(340)	(1,690)
Current year undistributed LLC earnings		_	_	77	22	99
Treasury's equity, December 31, 2022	\$	_	\$ _	\$ 3,074	\$ 1,077	\$ 4,151

<sup>&</sup>lt;sup>1</sup> Represents distribution of cumulative LLC earnings upon dissolution in accordance with the LLC's legal agreements.

The following tables present the Treasury's cumulative capital contributions and undistributed LLC earnings (loss) as of December 31 2022 and 2021 (in millions):

		MLF	TALF II	Total
Cumulative capital contributions	\$	4,220	\$ 1,364	\$ 5,584
Cumulative undistributed LLC earnings		127	31	158
Treasury's equity, December 31, 2021	\$	4,347	\$ 1,395	\$ 5,742
	_			
Cumulative capital contributions	\$	2,870	\$ 1,024	\$ 3,894
Cumulative undistributed LLC earnings		204	53	257
Treasury's equity, December 31, 2022	\$	3,074	\$ 1,077	\$ 4,151

The assets of the VIE and the amounts provided by the Treasury as credit protection are used to secure the loans from the Bank. Funds provided by the Treasury's preferred equity contribution are invested as mutually agreed upon by each LLC and Treasury and consented to by the Bank. Additionally, the managing member has been deemed to have contributed a nominal amount to each LLC.

## e. Short-Term Investments in Non-Marketable Securities

In accordance with the terms of the Preferred Equity Investment Agreements for MLF and TALF II, approximately 85 percent of the Treasury's initial equity contribution was invested in overnight non-marketable securities issued by the Treasury to each LLC. These investments are reported as restricted cash and cash equivalents as there are contractual limitations and restrictions on the use of the funds and ability to withdraw the funds. The remaining equity contribution of approximately 15 percent of the initial equity contribution was held in cash on deposit at the

Bank to support the liquidity needs of each LLC. Due to the short-term nature of cash equivalents and non-marketable securities, the cost basis is estimated to approximate fair value.

# (7) BANK PREMISES, EQUIPMENT, AND SOFTWARE

Bank premises and equipment at December 31, 2022 and 2021 were as follows (in millions):

	20	022	2021
Bank premises and equipment:			
Land and land improvements	\$	69	\$ 68
Buildings		622	627
Construction		37	40
Furniture and equipment		262	238
Subtotal		990	973
Accumulated depreciation		(515)	(484)
Bank premises and equipment, net	\$	475	\$ 489
Depreciation expense, for the years ended December 31	\$	39	\$ 36

The Bank leases space to outside tenants with remaining lease terms ranging from 1 to 10 years, which reflect any renewal options the lessee is reasonably certain to exercise or termination options not reasonably certain to exercise. Rental income from such leases was \$7 million and \$6 million for the years ended December 31, 2022 and 2021, respectively, and is reported as a component of "Other items of income (loss): Other" in the Consolidated Statements of Operations. Future minimum lease payments that the Bank will receive under non-cancelable lease agreements in existence at December 31, 2022, are as follows (in millions):



The Bank had capitalized software assets, net of amortization, of \$77 million and \$65 million at December 31, 2022 and 2021, respectively. Amortization expense was \$17 million and \$20 million for the years ended December 31, 2022 and 2021, respectively. Capitalized software assets are reported as a component of "Other assets" in the Consolidated Statements of Condition and the related amortization is reported as a component of "Operating expenses: Other" in the Consolidated Statements of Operations.

# (8) COMMITMENTS AND CONTINGENCIES

In conducting its operations, the Bank enters into contractual commitments, normally with fixed expiration dates or termination provisions, at specific rates and for specific purposes.

At December 31, 2022, the Bank was obligated under non-cancelable leases for premises with a remaining term of approximately 2 years. The lease term and the recorded amount of right-of-use assets and lease liabilities include any renewal options reasonably certain to be exercised or termination options not reasonably certain to be exercised. These leases provide for increased lease payments based upon increases in real estate taxes, operating costs, or selected price indexes.

Rental expense for certain operating facilities, warehouses and data processing (including taxes, insurance, and maintenance when included in rent) was \$1 million and \$2 million for the years ended December 31, 2022 and 2021, respectively. Certain of the Bank's leases have options to renew.

Lease right-of-use assets, future minimum lease payments, and lease liabilities under non-cancelable operating leases at December 31, 2022, were immaterial.

At December 31, 2022, there were no material unrecorded unconditional purchase commitments or obligations in excess of one year.

Under an insurance agreement of the Reserve Banks, each of the Reserve Banks has agreed to bear, on a perincident basis, a share of certain losses in excess of 1 percent of the capital paid-in of the claiming Reserve Bank, up to 50 percent of the total capital paid-in of all Reserve Banks. Losses are borne in the ratio of a Reserve Bank's capital paid-in to the total capital paid-in of all Reserve Banks at the beginning of the calendar year in which the loss is shared. No claims were outstanding under the agreement at December 31, 2022 and 2021.

The Bank is involved in certain legal actions and claims arising in the ordinary course of business. Although it is difficult to predict the ultimate outcome of these actions, in management's opinion, based on discussions with counsel, the legal actions and claims will be resolved without material adverse effect on the financial position or results of operations of the Bank.

# (9) RETIREMENT AND THRIFT PLANS

## **Retirement Plans**

The Bank currently offers three defined benefit retirement plans to its employees, based on length of service and level of compensation. Substantially all of the employees of the Reserve Banks, Board of Governors, and Office of Employee Benefits of the Federal Reserve System (OEB) participate in the Retirement Plan for Employees of the Federal Reserve System (System Plan).¹ Under the Dodd-Frank Act, eligible Bureau employees may participate in the System Plan and, during the years ended December 31, 2022 and 2021, certain costs associated with the System Plan were reimbursed by the Bureau. In addition, employees at certain compensation levels participate in the Benefit Equalization Retirement Plan (BEP) and certain Reserve Bank officers participate in the Supplemental Retirement Plan for Select Officers of the Federal Reserve Banks (SERP).

The Bank, on behalf of the System, recognizes the net asset or net liability and costs associated with the System Plan in its consolidated financial statements. The Bank reports the service cost related to the System Plan as "Operating expenses: System pension service cost" in its Consolidated Statements of Operations, and other net benefit costs related to the System Plan as a component of "Other items of income (loss): Other components of net benefit costs" in its Consolidated Statements of Operations. The Bank reports the service costs related to the BEP and SERP as a component of "Operating expenses: Salaries and benefits" in its Consolidated Statements of Operations. Accrued pension benefit costs are reported as a component of "Prepaid pension benefit costs" if the funded status is a net asset or "Accrued benefit costs" if the funded status is a net liability in the Consolidated Statements of Condition.

Following is a reconciliation of the beginning and ending balances of the System Plan benefit obligation for the vears ended December 31, 2022 and 2021 (in millions):

	2022		2021
Estimated actuarial present value of projected benefit obligation at January 1	\$ 24,194	\$	23,594
Service cost - benefits earned during the period	946		954
Interest cost on projected benefit obligation	775		708
Actuarial (gain)	(7,745	)	(527)
Contributions by plan participants	6		3
Special termination benefits	7		24
Benefits paid	(624	.)	(562)
Estimated actuarial present value of projected benefit obligation at December 31	\$ 17,559	\$	24,194

Annually, the Society of Actuaries Retirement Plan Experience Committee releases updated mortality tables and mortality projection scales. This year, the System reviewed the mortality tables released in October 2022 relative to the System's actual retiree mortality experience, as part of an annual review of the updated mortality tables and

<sup>&</sup>lt;sup>1</sup> The OEB was established by the System to administer selected System benefit plans.

scales. As a result, the System retained for year-end 2022 the modified MP-2019 projections scales and Pri-2012 mortality tables with updated adjustments to reflect the recent mortality experience of System retirees. These adjustments resulted in an addition to the Retirement Plan projected benefit obligation of approximately \$68 million in 2022.

Following is a reconciliation showing the beginning and ending balance of the System Plan assets, the funded status, and the accrued pension benefit costs for the years ended December 31, 2022 and 2021 (in millions):

	2022	2021
Estimated plan assets at January 1 (of which \$24,643 and \$22,628 is measured at fair value as of January 1, 2022 and 2021, respectively)	\$ 24,666	\$ 22,660
Actual return on plan assets	(5,338)	1,946
Contributions by the employers	182	619
Contributions by plan participants	6	3
Benefits paid	(624)	(562)
Estimated plan assets at December 31 (of which \$18,897 and \$24,643 is measured at fair value as of December 31, 2022 and 2021, respectively)	\$ 18,892	\$ 24,666
Funded status and accrued pension benefit costs	\$ 1,333	\$ 472
Amounts included in accumulated other comprehensive loss are shown below:		
Prior service cost	\$ _	\$ _
Net actuarial loss	(1,593)	(2,754)
Total accumulated other comprehensive loss	\$ (1,593)	\$ (2,754)

The Bank, on behalf of the System, funded \$140 million and \$570 million during the years ended December 31, 2022 and 2021, respectively. The Bureau is required by the Dodd-Frank Act to fund the System plan for each Bureau employee based on an established formula. During the years ended December 2022 and 2021, the Bank received contributions from the Bureau of \$42 million and \$49 million, respectively.

The accumulated benefit obligation for the System Plan, which differs from the estimated actuarial present value of projected benefit obligation because it is based on current rather than future compensation levels, was \$15,430 million and \$20,440 million at December 31, 2022 and 2021, respectively.

The weighted-average assumptions used in developing the accumulated pension benefit obligation for the System Plan as of December 31 were as follows:

	2022	2021
Discount rate	5.55 %	3.09 %
Rate of compensation increase	4.50 %	4.25 %

Net periodic benefit expenses for the years ended December 31, 2022 and 2021 were actuarially determined using a January 1 measurement date. The weighted-average assumptions used in developing net periodic benefit expenses for the System Plan for the years were as follows:

	2022	2021
Discount rate	3.09 %	2.90 %
Expected asset return	5.25 %	5.25 %
Rate of compensation increase	4.25 %	4.25 %

Discount rates reflect yields available on high-quality corporate and other taxable bonds that would generate the cash flows necessary to pay the System Plan's benefits when due. The expected long-term rate of return on assets is an estimate that is based on a combination of factors, including the System Plan's asset allocation strategy and historical returns; surveys of expected rates of return for various asset classes; and projected returns for equities and fixed income investments based on observable inputs for real interest rates, inflation expectations, and equity risk premiums.

The components of net periodic pension benefit expense for the System Plan for the years ended December 31, 2022 and 2021 are shown below (in millions):

\$ 946	φ.	
	<u> </u>	954
\$ 775	\$	708
_		3
45		173
(1,290)		(1,200)
7		24
(42)		(49)
(505)		(341)
\$ 441	\$	613
\$	45 (1,290) 7 (42) (505)	- 45 (1,290) 7 (42) (505)

The service cost component of periodic pension benefit expense is reported as "Operating expenses: System pension service cost" in the Consolidated Statements of Operations and the other components of periodic pension benefit expense are reported as a component of "Other items of income (loss): Other components of net benefit costs" in the Consolidated Statements of Operations.

The recognition of special termination benefits is primarily the result of enhanced retirement benefits provided to employees in the normal course of operations. Following is a summary of expected benefit payments, excluding enhanced retirement benefits (in millions):

2023	\$ 695
2024	741
2025	787
2026	835
2027	884
2028 - 2032	5,181
Total	\$ 9,123

The System's Committee on Plan Administration is responsible for oversight of the operations of the Retirement Plan, which includes the Retirement Plan trust and for determining the amounts necessary to maintain the Retirement Plan on an actuarially sound basis and the amounts that employers must contribute to pay the expenses of OEB and the Retirement Plan.

The System's Committee on Investment Performance (CIP) is responsible for establishing investment policies, selecting investment managers, and monitoring the investment managers' compliance with its policies. At December 31, 2022, the System Plan's assets were held in 50 investment vehicles: 7 actively-managed long-duration fixed income portfolios, a passively-managed long-duration fixed income portfolio, an actively-managed high yield fixed income portfolio, an indexed U.S. equity fund, an indexed non-U.S. developed-markets equity fund, an indexed emerging-markets equity fund, 10 private equity limited partnerships, a private equity separate account, 4 core real estate funds, 22 real estate limited partnerships, and a money market fund.

The diversification of the System Plan's investments is designed to limit concentration of risk and the risk of loss related to an individual asset class. The seven actively-managed long-duration fixed income portfolios are separate accounts benchmarked to a custom benchmark of 55 percent Bloomberg Long Credit Downgrade Protected Index and 45 percent Bloomberg 15+ years Treasury STRIPS Index. This custom benchmark was selected as a proxy to match the liabilities of the System Plan and the guidelines for these portfolios are designed to limit portfolio deviations from the benchmark. The passively-managed long-duration fixed-income portfolio is invested in 2 commingled funds and is benchmarked to 55 percent Bloomberg Long Credit Index and 45 percent Bloomberg 20+ STRIPS Index. The actively-managed high yield fixed income portfolio is benchmarked to a custom benchmark of 75 percent Bloomberg BB High Yield Index and 25 percent Bloomberg BBB Index. The indexed U.S. equity fund is intended to track the overall U.S. equity market across market capitalizations and is benchmarked to the CRSP U.S. Total Market Index. The indexed non-U.S. developed-markets equity fund is intended to track the Morgan Stanley Capital International (MSCI) World ex-US Investible Markets Index (IMI), which includes stocks from 22 markets deemed by MSCI to be "developed markets." The indexed emerging-markets equity fund is intended to track the MSCI Emerging Markets IMI Index, which includes stocks from 24 markets deemed by MSCI to be "emerging markets."

The 3 indexed equity funds include stocks from across the market capitalization spectrum (i.e., large-, mid- and small-cap stocks).

The 10 private equity limited partnerships invest globally across various private equity strategies and the private equity separate account invests in various private equity funds (both primary and secondary interests) and coinvestment opportunities globally in private companies and targets returns in excess of public markets over a complete market cycle.

The 4 core real estate funds invest in high quality, well leased, low leverage commercial real estate throughout the U.S.

The 22 real estate limited partnerships invest in core plus, value-add and opportunistic U.S. and international commercial real estate including development and repositioning of assets. Finally, the money market fund, which invests in short term Treasury and agency debt and repurchase agreements backed by Treasury and agency debt, is the repository for cash balances and adheres to a constant dollar methodology.

Permitted and prohibited investments, including the use of certain derivatives, are defined in either the trust agreement (for the passively-managed long-duration fixed income and indexed equity funds portfolio) or the investment guidelines (for the remaining investments). The CIP reviews the trust agreement and approves all investment guidelines as part of the selection of each investment to ensure that they are consistent with the CIP's investment objectives for the System Plan's assets.

The System Plan's policy weight and actual asset allocations at December 31, 2022 and 2021 by asset category, are as follows:

	2022	Actual asset	allocations
	Policy weight	2022	2021
Long-duration fixed income	50.0 %	50.0 %	49.0 %
U.S. equities	19.6 %	18.3 %	21.3 %
International equities	9.6 %	8.5 %	10.1 %
Private equity	7.0 %	8.6 %	6.7 %
High yield fixed income	5.0 %	5.0 %	4.3 %
Real estate	5.0 %	5.9 %	3.9 %
Emerging markets equities	3.8 %	3.2 %	3.9 %
Cash	0.0 %	0.5 %	0.8 %
Total	100.0 %	100.0 %	100.0 %

Employer contributions to the System Plan may be determined using different assumptions than those required for financial reporting. The System Plan's anticipated funding level for 2023 is \$240 million. In 2023, the Bank plans to make monthly contributions of \$20 million and will reevaluate the monthly contributions quarterly and upon completion of the 2023 actuarial valuation. The Bank's projected benefit obligation, funded status, and net pension expenses for the BEP and SERP at December 31, 2022 and 2021, and for the years then ended, were immaterial.

# **Determination of Fair Value**

The System Plan's publicly traded investments are valued on the basis of the last available bid prices or current market quotations provided by dealers, or pricing services. To determine the value of a particular investment, pricing services may use information on transactions in such investments, quotations from dealers, pricing metrics, market transactions in comparable investments, relationships observed in the market between investments, and calculated yield measures based on valuation methodologies commonly employed in the market for such investments.

Collective trust funds are valued using the net asset value, calculated daily, based on the fair value of the underlying investments. Private equity and real estate investments are valued using the net asset value, as a practical expedient, which is based on the fair value of the underlying investments. The net asset value is adjusted for contributions, distributions, and both realized and unrealized gains and losses incurred during the period. The realized and unrealized gains and losses are based on reported valuation changes.

Because of the uncertainty inherent in determining the fair value of investments that do not have a readily available fair value, the fair value of these investments may differ significantly from the values that would have been reported if a readily available fair value had existed for these investments and may differ materially from the values that may ultimately be realized.

The following tables present the financial instruments recorded at fair value as of December 31, 2022 and 2021 by FASB ASC 820 hierarchy (in millions):

	2022						
Description	Level 1		Level 2	Level 3			Total <sup>1</sup>
Short-term investments	\$ 329	\$	_	\$	-	\$	329
Treasury and federal agency securities	135		3,214		-		3,349
Corporate bonds	_		4,277		-		4,277
Other fixed income securities	_		380		-		380
Collective trusts	7,828		_		-		7,828
Real estate	_		749		-		749
Investments measured at net asset value <sup>2</sup>	_		_		-		1,989
Total investments at fair value <sup>3</sup>	\$ 8,292	\$	8,620	\$		\$	18,901

<sup>&</sup>lt;sup>1</sup> There were no transfers between levels during the year ended December 31, 2022.

<sup>&</sup>lt;sup>2</sup> Certain investments that are measured at fair value using the net asset value per share (or its equivalent) practical expedient have not been categorized in the fair value hierarchy.

<sup>&</sup>lt;sup>3</sup> In addition to total investments, the System Plan holds future margin receivable of \$4 million, future margin payable of \$7 million, and foreign exchange forward payable of \$1 million at December 31, 2022.

	2021						
Description	Level 1		Level 2		Level 3		Total <sup>1</sup>
Short-term investments	\$ 395	\$	_	\$	_	\$	395
Treasury and federal agency securities	111		3,777		_		3,888
Corporate bonds	_		5,147		_		5,147
Other fixed income securities	_		449		_		449
Collective trusts	12,161		_		_		12,161
Real estate	_		643		_		643
Investments measured at net asset value 2	_		_		_		1,957
Total investments at fair value <sup>3</sup>	\$ 12,667	\$	10,016	\$	_	\$	24,640
Total investments at fair value "	\$ 12,007	<u></u>	10,016	<b></b>		<u> </u>	

<sup>&</sup>lt;sup>1</sup> There were no transfers between levels during the year ended December 31, 2021.

The System Plan enters into futures contracts, traded on regulated exchanges, to manage certain risks and to maintain appropriate market exposure in meeting the investment objectives of the System Plan. The System Plan bears the market risk that arises from any unfavorable changes in the value of the securities or indexes underlying these futures contracts. The use of futures contracts involves, to varying degrees, elements of market risk in excess of the amount recorded in the Consolidated Statements of Condition. The guidelines established by the CIP further reduce risk by limiting the net futures positions, for most fund managers, to 15 percent of the market value of the advisor's portfolio.

At December 31, 2022 and 2021, a portion of short-term investments was available for futures trading. There were \$14 million and \$9 million of Treasury securities pledged as collateral for the years ended December 31, 2022 and 2021, respectively.

The System Plan also enters into currency spot and forward transactions as a means of hedging currency exposure for securities denominated in a foreign currency.

Forward currency transactions are non-exchange-traded contracts or agreements for delayed delivery of specific currencies in which the seller agrees to make delivery at a specified future date of specified currencies. Risks associated with forward currency contracts are the inability of counterparties to meet the terms of their respective contracts and movements in fair value and exchange rates. The forward contracts are customized for the specific asset(s) being hedged.

## **Thrift Plan**

Employees of the Bank participate in the defined contribution Thrift Plan for Employees of the Federal Reserve System (Thrift Plan). The Bank matches 100 percent of the first 6 percent of employee contributions from the date of hire and provides an automatic employer contribution of 1 percent of eligible pay. The Bank's Thrift Plan contributions totaled \$34 million and \$34 million for the years ended December 31, 2022 and 2021, respectively,

<sup>&</sup>lt;sup>2</sup> Certain investments that are measured at fair value using the net asset value per share (or its equivalent) practical expedient have not been categorized in the fair value hierarchy.

<sup>&</sup>lt;sup>3</sup> In addition to total investments at fair value, the System Plan holds future margin receivable of \$6 million and future margin payables of \$3 million at December 31,

and are reported as a component of "Operating expenses: Salaries and benefits" in the Consolidated Statements of Operations.

# (10) POSTRETIREMENT BENEFITS OTHER THAN RETIREMENT PLANS AND POSTEMPLOYMENT BENEFITS

## **Postretirement Benefits Other Than Retirement Plans**

In addition to the Bank's retirement plans, employees who have met certain age and length-of-service requirements are eligible for both medical and life insurance benefits during retirement.

The Bank and plan participants fund benefits payable under the medical and life insurance plans as due and the plans have no assets.

Following is a reconciliation of the beginning and ending balances of the benefit obligation for the years ended December 31, 2022 and 2021 (in millions):

	2022	2021
Accumulated postretirement benefit obligation at January 1	\$ 464	\$ 520
Service cost - benefits earned during the period	25	28
Interest cost on accumulated benefit obligation	14	14
Net actuarial gain	(146)	(84)
Contributions by plan participants	5	5
Benefits paid	(20)	(18)
Medicare Part D subsidies	1	-
Plan amendments	(1)	(1)
Accumulated postretirement benefit obligation at December 31	\$ 342	\$ 464

At December 31, 2022 and 2021, the weighted-average discount rate assumptions used in developing the postretirement benefit obligation were 5.43 percent and 2.91 percent, respectively.

Discount rates reflect yields available on high-quality corporate bonds that would generate the cash flows necessary to pay the plan's benefits when due. The System Plan discount rate assumption setting convention uses an unrounded rate.

Following is a reconciliation of the beginning and ending balance of the plan assets, and the unfunded postretirement benefit obligation and accrued postretirement benefit costs for the years ended December 31, 2022 and 2021 (in millions):

	2	2022	2021
Fair value of plan assets at January 1	\$	_	\$ -
Contributions by the employer		15	13
Contributions by plan participants		5	5
Benefits paid		(20)	(18)
Fair value of plan assets at December 31	\$		\$ _
Unfunded obligation and accrued postretirement benefit costs	\$	342	\$ 464
Amounts included in accumulated other comprehensive income (loss) are shown below:			
Prior service cost	\$	3	\$ 7
Net actuarial gain (loss)		108	(38)
Total accumulated other comprehensive income (loss)	\$	111	\$ (31)

Accrued postretirement benefit costs are reported as a component of "Accrued benefit costs" in the Consolidated Statements of Condition.

For measurement purposes, the assumed health-care cost trend rates at December 31, 2022 and 2021 are provided in the table below:

	2022	2021
Health-care cost trend rate assumed for next year	6.50 %	5.50 %
Rate to which the cost trend rate is assumed to decline (the ultimate trend rate)	4.75 %	4.75 %
Year that the rate reaches the ultimate trend rate	2030	2028

The following is a summary of the components of net periodic postretirement benefit expense for the years ended December 31, 2022 and 2021 (in millions):

	2	2022	2021
Service cost - benefits earned during the period	\$	25	\$ 28
Other components of periodic postretirement benefit expense:			
Interest cost on accumulated benefit obligation	\$	14	\$ 14
Amortization of prior service credit		(5)	(11)
Amortization of net actuarial loss			 6
Other components of periodic postretirement benefit expense		9	9
Total periodic postretirement benefit expense	\$	34	\$ 37

The service cost component of periodic postretirement benefit expense is reported as a component of "Operating expenses: Salaries and benefits" in the Consolidated Statements of Operations and the other components of periodic postretirement benefit expense are reported as a component of "Other items of income (loss): Other components of net benefit costs" in the Consolidated Statements of Operations.

Net postretirement benefit costs are actuarially determined using a January 1 measurement date. At January 1, 2022 and 2021, the weighted-average discount rate assumptions used to determine net periodic postretirement benefit costs were 2.91 percent and 2.61 percent, respectively.

The Medicare Prescription Drug, Improvement and Modernization Act of 2003 established a prescription drug benefit under Medicare (Medicare Part D) and a federal subsidy to sponsors of retiree health-care benefit plans that provide benefits that are at least actuarially equivalent to Medicare Part D. The benefits provided under the Bank's plan to certain participants are at least actuarially equivalent to the Medicare Part D prescription drug benefit. The estimated effects of the subsidy are reflected in the actuarial gain in the accumulated postretirement benefit obligation and net periodic postretirement benefit expense.

Federal Medicare Part D subsidy receipts were immaterial in the years ended December 31, 2022 and 2021. Expected receipts in 2023, related to benefits paid in the years ended December 31, 2022 and 2021, are immaterial.

Following is a summary of expected postretirement benefit payments (in millions):

	Without subsidy	With subsidy		
2023	\$ 19	\$ 19		
2024	20	20		
2025	21	20		
2026	22	22		
2027	24	23		
2028 - 2032	133	129		
Total	\$ 239	\$ 233		

# **Postemployment Benefits**

The Bank offers benefits to former qualifying or inactive employees. Postemployment benefit costs are actuarially determined using a December 31 measurement date and include the cost of providing disability; medical, dental, and vision insurance; and survivor income benefits. The accrued postemployment benefit costs recognized by the Bank at December 31, 2022 and 2021 were \$22 million and \$28 million, respectively. This cost is included as a component of "Accrued benefit costs" in the Consolidated Statements of Condition. Net periodic postemployment benefit credit included in 2022 and 2021 operating expenses were \$(3) million and \$(1) million, respectively, and are recorded as a component of "Operating expenses: Salaries and benefits" in the Consolidated Statements of Operations.

# (11) ACCUMULATED OTHER COMPREHENSIVE INCOME AND OTHER COMPREHENSIVE INCOME

Following is a reconciliation of beginning and ending balances of accumulated other comprehensive income (loss) as of December 31, 2022 and 2021 (in millions):

		2022		2021					
	Amount related to defined benefit retirement plan	Amount related to postretirement benefits other than retirement plans	Total accumulated other comprehensive income (loss)	Amount related to defined benefit retirement plan	Amount related to postretirement benefits other than retirement plans	Total accumulated other comprehensive income (loss)			
Balance at January 1	\$ (2,754)	\$ (31)	\$ (2,785)	\$ (4,204)	\$ (111)	\$ (4,315)			
Change in funded status of benefit plans:									
Prior service costs arising during the year	_	1	1	_	1	1			
Amortization of prior service cost (credit) <sup>1</sup>	_	(5)	(5)	3	(11)	(8)			
Change in prior service costs related to benefit plans	_	(4)	(4)	3	(10)	(7)			
Net actuarial gain arising during the year	1,116	146	1,262	1,274	84	1,358			
Amortization of net actuarial loss <sup>1</sup>	45	_	45	173	6	179			
Change in actuarial gain (loss) related to benefit plans	1,161	146	1,307	1,447	90	1,537			
Change in funded status of benefit plans - other comprehensive income	1,161	142	1,303	1,450	80	1,530			
Balance at December 31	\$ (1,593)	\$ 111	\$ (1,482)	\$ (2,754)	\$ (31)	\$ (2,785)			

<sup>&</sup>lt;sup>1</sup> Reclassification is reported as a component of "Other items of income (loss): Other components of net benefit costs" in the Consolidated Statements of Operations.

Additional detail regarding the classification of accumulated other comprehensive loss is included in Notes 9 and 10.

# (12) RECONCILIATION OF TOTAL DISTRIBUTION OF COMPREHENSIVE INCOME AND TREASURY REMITTANCES

In accordance with the FRA, the Bank remits excess earnings to the Treasury after providing for the cost of operations, payment of dividends, and reservation of an amount necessary to maintain the Bank's allocated portion of the aggregate surplus limitation (see Note 3q).

The Bank remitted excess earnings to the Treasury on a weekly basis during all of 2021 and most of 2022. In the fall, the Bank first suspended weekly remittances to the Treasury because earnings shifted from excess to less than the costs of operations, payment of dividends, and reservation of surplus. The Bank began accumulating a deferred asset. At December 31, 2022, the deferred asset represents the net accumulation of costs in excess of earnings and is reported as "Deferred asset – remittances to the Treasury" in the Consolidated Statements of Condition. The deferred asset is the amount of net excess earnings the Bank will need to realize in the future before remittances to the Treasury resume.

The following table presents the distribution of the Bank's and System's total comprehensive income for the years ended December 31, 2022 and 2021 (in millions):

	Bank's portion				System total				
		2022		2021		2022		2021	
Reserve Bank and consolidated variable interest entity net income before providing for remittances to the Treasury	\$	26,755	\$	61,937	\$	58,836	\$	107,928	
Other comprehensive income		1,303		1,530		1,819		1,640	
Total comprehensive income - available for distribution	\$	28,058	\$	63,467	\$	60,655	\$	109,568	
Distribution of comprehensive income (loss):									
Transfer to (from) surplus	\$	51	\$	69	\$	_	\$	(40)	
Dividends		406		177		1,209		583	
Remittances transferred to the Treasury <sup>1, 2</sup>		40,146		63,221		76,031		109,025	
Deferred asset increase		(12,545)		_		(16,585)		-	
Earnings remittances to the Treasury, net		27,601		63,221		59,446		109,025	
Total distribution of comprehensive income	\$	28,058	\$	63,467	\$	60,655	\$	109,568	

<sup>&</sup>lt;sup>1</sup> Represents cumulative excess earnings remittances transferred to the Treasury during the period prior to entering a period of a shortfall of earnings and suspending remittances.

# (13) SUBSEQUENT EVENTS

On March 12, 2023, the Board of Governors announced that it will make available additional funding to eligible depository institutions to help assure banks have the ability to meet the needs of all their depositors.

The Board of Governors announced the Bank Term Funding Program (BTFP) authorizing the Bank to provide liquidity to U.S. depository institutions by extending loans of up to one year to eligible borrowers. Eligible collateral includes U.S. Treasuries, agency debt and mortgage-backed securities, and other qualifying assets. The collateral will be valued at par value. The loans will be limited in amount to the value of the pledged collateral and the rate of the loans will be fixed to the one-year overnight index swap rate plus 10 basis points. The Treasury using the ESF, made available \$25 billion as credit protection to the BTFP. Under BTFP, new credit extensions will be available until at least March 11, 2024. As of March 14, 2023, the Bank extended loans under the BTFP.

Depository institutions were also able to obtain liquidity against a wide range of collateral through primary credit extensions. Effective March 12, 2023, the same margins used for securities eligible for the BTFP are applied to the same types of securities used to secure loans to depository institutions, further increasing the lendable value of collateral pledged. Beginning March 2023, loans to depository institutions increased subsequent to year-end, and a portion of those loans were extended to a depository institution established by the Federal Deposit Insurance Corporation (FDIC) and where the Bank received loan repayment guarantees from the FDIC.

<sup>&</sup>lt;sup>2</sup> Inclusive of a lump-sum payment of \$40 million, of which \$13 million was allocated to the Bank, that was remitted to the Treasury on February 5, 2021 as required by the National Defense Authorization Act of 2021. As a result, aggregate surplus limitation in the FRA was reduced from \$6.825 billion to \$6.785 billion.

Subsequent events were evaluated through March 14, 2023, which is the date that the consolidated financial statements were available to be issued.



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