FEDERAL HOME LOAN BANKS

Combined Financial Report for the Quarterly Period Ended March 31, 2023

This Combined Financial Report provides financial information on the Federal Home Loan Banks. The Federal Home Loan Banks issue consolidated bonds and consolidated discount notes (collectively referred to as consolidated obligations). Consolidated obligations are joint and several obligations of all Federal Home Loan Banks, which means that each individual Federal Home Loan Bank is responsible for the payment of principal and interest on all consolidated obligations. Each Federal Home Loan Bank is a separately chartered entity with its own board of directors and management. There is no centralized, system-wide management or oversight by a single board of directors of the Federal Home Loan Banks.

Federal Home Loan Bank consolidated obligations are not obligations of the United States and are not guaranteed by the United States. No person other than the Federal Home Loan Banks will have any obligations or liability with respect to consolidated obligations.

The Securities Act of 1933, as amended, does not require the registration of consolidated obligations; therefore, no registration statement with respect to consolidated obligations has been filed with the U.S. Securities and Exchange Commission. Neither the U.S. Securities and Exchange Commission, nor the Federal Housing Finance Agency, nor any state securities commission has approved or disapproved of these consolidated obligations or determined if this report is truthful or complete.

Carefully consider the risk factors provided in this and other Combined Financial Reports of the Federal Home Loan Banks (collectively referred to as Combined Financial Reports). Neither the Combined Financial Reports nor any offering materials provided by, or on behalf of, the Federal Home Loan Banks describe all the risks of investing in consolidated obligations. Investors should consult with their financial and legal advisors about the risks of investing in consolidated obligations.

The financial information contained in this Combined Financial Report is for the quarterly period ended March 31, 2023. This Combined Financial Report should be read in conjunction with the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, issued on March 24, 2023. Combined Financial Reports are available on the Federal Home Loan Banks Office of Finance website at fhlb-of.com. This website address is provided as a matter of convenience only, and its contents are not made part of or incorporated by reference into this report.

Investors should direct questions about consolidated obligations or the Combined Financial Reports to the Federal Home Loan Banks Office of Finance at (703) 467-3600 or at info@fhlb-of.com.

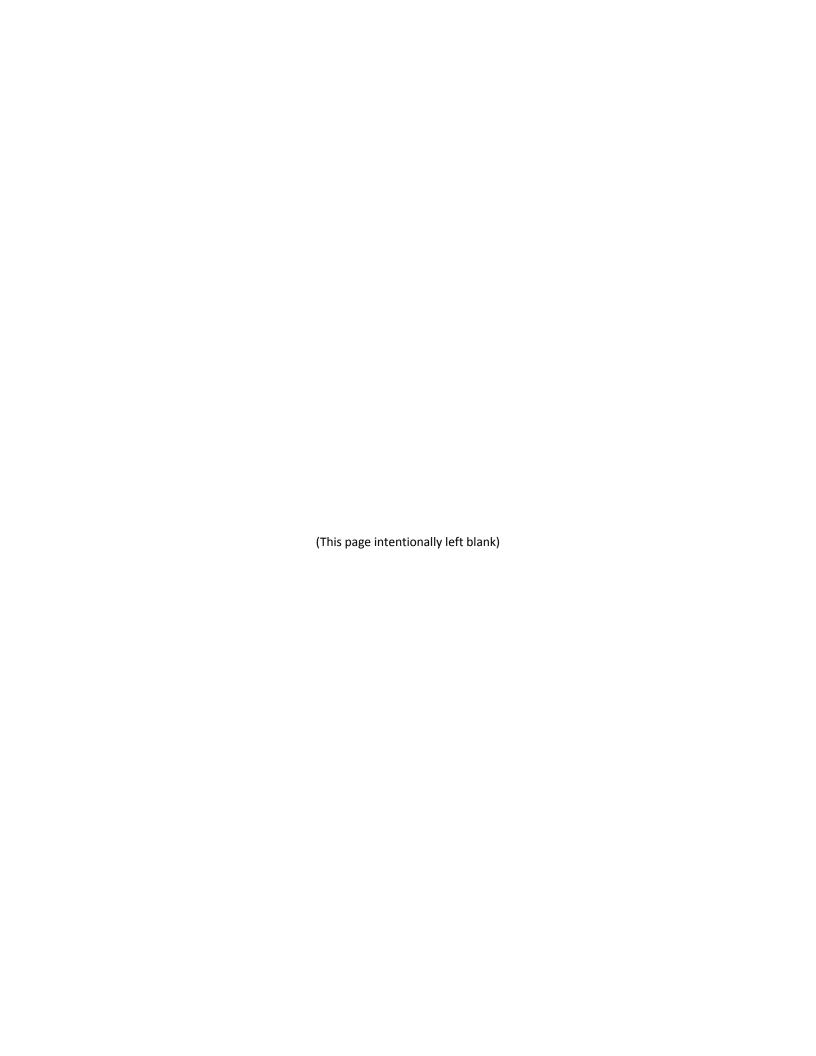


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EXPLANATORY STATEMENT ABOUT FEDERAL HOME LOAN BANKS COMBINED FINANCIAL REPORT

The Federal Home Loan Banks (FHLBanks) are government-sponsored enterprises (GSEs), federally-chartered but privately capitalized and independently managed. The FHLBanks together with the Federal Home Loan Banks Office of Finance (Office of Finance) comprise the FHLBank System.

The Office of Finance is responsible for preparing the Combined Financial Reports of the FHLBanks. Each FHLBank is responsible for the financial information and underlying data it provides to the Office of Finance for inclusion in the Combined Financial Reports. The Office of Finance is responsible for combining the financial information it receives from each of the FHLBanks.

The Combined Financial Reports are intended to be used by investors in consolidated obligations (consolidated bonds and consolidated discount notes) of the FHLBanks as these are joint and several obligations of all FHLBanks. This Combined Financial Report is provided using combination accounting principles generally accepted in the United States of America. This combined presentation in no way indicates that these assets and liabilities are under joint management and control as each individual FHLBank manages its operations independently. Therefore, each FHLBank's business, risk profile, financial condition, and results of operations will vary from FHLBank to FHLBank.

Because of the FHLBank System's structure, the Office of Finance does not prepare consolidated financial statements. Consolidated financial statements are generally considered to be appropriate when a controlling financial interest rests directly or indirectly in one of the enterprises included in the consolidation, which is the case in a typical holding company structure where there is a parent company that owns, directly or indirectly, one or more subsidiaries. However, the FHLBanks do not have a parent company that controls each of the FHLBanks. Instead, each of the FHLBanks is owned by its respective members and certain former members.

Each FHLBank is a separately chartered cooperative with its own board of directors and management and is responsible for establishing its own accounting and financial reporting policies in accordance with accounting principles generally accepted in the United States of America (GAAP). Although the FHLBanks work together in an effort to achieve consistency on significant accounting policies, the FHLBanks' accounting and financial reporting policies and practices may vary because alternative policies and presentations are permitted under GAAP in certain circumstances. Statements in this report may be qualified by a term such as "generally," "primarily," "typically," or words of similar meaning to indicate that the statement is generally applicable, but may not be applicable to all FHLBanks or their transactions as a result of their different business practices and accounting and financial reporting policies under GAAP.

An investor may not be able to obtain easily a system-wide view of the FHLBanks' business, risk profile, and financial information because there is no centralized, system-wide management or centralized board of director oversight of the individual FHLBanks. This decentralized structure is not conducive to preparing disclosures from a system-wide view in the same manner as is generally expected of U.S. Securities and Exchange Commission (SEC) registrants. For example, a conventional Management's Discussion and Analysis is not provided in this Combined Financial Report; instead, this report includes a "Financial Discussion and Analysis" prepared by the Office of Finance using information provided by each FHLBank.

Each FHLBank is subject to the reporting requirements of the Securities Exchange Act of 1934, as amended, and must file periodic reports and other information with the SEC. Each FHLBank prepares an annual financial report, filed on SEC Form 10-K, quarterly financial reports, filed on SEC Form 10-Q, and current reports, filed on SEC Form 8-K. Those reports contain additional information that is not contained in this Combined Financial Report. An investor should review those reports and other available information on individual FHLBanks to obtain additional

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detail on each FHLBank's business, risk profile, financial condition, results of operations, and accounting and financial reporting policies. Periodic reports and other information filed by each FHLBank with the SEC are made available on its website and on the SEC's website at sec.gov. References to websites and to reports and other information filed by individual FHLBanks with the SEC are provided as a matter of convenience only, and their contents are not made part of or incorporated by reference into this report.



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FEDERAL HOME LOAN BANKS COMBINED STATEMENTS OF CONDITION (UNAUDITED)

(dollars in millions, except par value)	Ma	rch 31, 2023	Dece	mber 31, 2022
Assets				
Cash and due from banks	\$	3,932	\$	417
Interest-bearing deposits (Note 3)		25,063		22,937
Securities purchased under agreements to resell (Note 3)		124,460		71,405
Federal funds sold (Note 3)		86,856		65,920
Investment securities (Note 3)				
Trading securities		12,417		15,865
Available-for-sale securities, net, amortized cost of \$141,572 and \$130,934		140,135		129,869
Held-to-maturity securities, net, fair value of \$60,179 and \$56,341		61,323		57,816
Total investment securities		213,875		203,550
Advances, includes \$3,048 and \$2,725 at fair value held under fair value option (Note 4)		1,044,614		819,121
Mortgage loans held for portfolio, net (Note 5)		56,228		56,048
Accrued interest receivable, net		4,081		3,327
Derivative assets, net (Note 6)		3,639		3,020
Other assets, net		1,422		1,502
Total assets	\$	1,564,170	\$	1,247,247
Liabilities				
Deposits (Note 7)	\$	15,129	\$	10,365
Consolidated obligations (Note 8)				
Discount notes, includes \$77,004 and \$65,795 at fair value held under fair value option		515,041		466,049
Bonds, includes \$12,600 and \$12,573 at fair value held under fair value option		944,074		695,381
Total consolidated obligations		1,459,115		1,161,430
Mandatorily redeemable capital stock (Note 9)		798		708
Accrued interest payable		4,646		3,229
Affordable Housing Program payable		1,039		944
Derivative liabilities, net (Note 6)		307		124
Other liabilities		5,561		2,640
Total liabilities		1,486,595		1,179,440
Commitments and contingencies (Note 12)				
Capital (Note 9)				
Capital stock				
Class B putable (\$100 par value) issued and outstanding shares		53,070		43,767
Class A putable (\$100 par value) issued and outstanding shares		292		239
Total capital stock		53,362		44,006
Retained earnings				,
Unrestricted		18,854		18,322
Restricted		6,534		6,232
Total retained earnings		25,388		24,554
Accumulated other comprehensive income (loss) (Note 10)		(1,175)		(753)
Total capital		77,575		67,807
Total liabilities and capital	\$	1,564,170	\$	1,247,247
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FEDERAL HOME LOAN BANKS COMBINED STATEMENTS OF INCOME (UNAUDITED)

	Three Months E	nded March 31,
(dollars in millions)	2023	2022
Interest income		
Advances	\$ 10,808	\$ 634
Interest-bearing deposits	452	!
Securities purchased under agreements to resell	568	:
Federal funds sold	1,176	22
Investment securities		
Trading securities	72	8!
Available-for-sale securities	1,728	340
Held-to-maturity securities	644	140
Total investment securities	2,444	56!
Mortgage loans held for portfolio	441	382
Total interest income	15,889	1,615
Interest expense		
Consolidated obligations		
Discount notes	5,304	87
Bonds	8,431	549
Total consolidated obligations	13,735	636
Deposits	124	2
Mandatorily redeemable capital stock	11	ļ
Total interest expense	13,870	643
Net interest income	2,019	972
Provision (reversal) for credit losses	_	_
Net interest income after provision (reversal) for credit losses	2,019	972
Non-interest income		
Net gains (losses) on investment securities	184	(480
Net gains (losses) on financial instruments held under fair value option	(148)	72
Net gains (losses) on derivatives	(68)	283
Other, net	100	63
Total non-interest income (loss)	68	(62
Non-interest expense		
Compensation and benefits	215	184
Other operating expenses	124	11:
Federal Housing Finance Agency	25	23
Office of Finance	20	18
Other, net	24	10
Total non-interest expense	408	35
Net income before assessments	1,679	558
Affordable Housing Program assessments	169	5
Net income	\$ 1,510	\$ 50

FEDERAL HOME LOAN BANKS COMBINED STATEMENTS OF COMPREHENSIVE INCOME (UNAUDITED)

	1	arch 31,		
(dollars in millions)		2023		2022
Net income	\$	1,510	\$	502
Other comprehensive income				
Net unrealized gains (losses) on available-for-sale securities		(373)		(1,091)
Net non-credit portion of other-than-temporary impairment gains (losses) on held-to-maturity securities		_		1
Net unrealized gains (losses) relating to hedging activities		(72)		231
Pension and postretirement benefits		23		(3)
Total other comprehensive income (loss)		(422)		(862)
Comprehensive income (loss)	\$	1,088	\$	(360)

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FEDERAL HOME LOAN BANKS COMBINED STATEMENTS OF CAPITAL (UNAUDITED)

THREE MONTHS ENDED MARCH 31, 2023 AND 2022

_	Capital Stock - Putable								
	Cla	ss B		Clas	ss A	То	Total		
(dollars and shares in millions)	Shares		Par Value	Shares	Par Value	Shares		Par Value	
Balance, December 31, 2022	438	\$	43,767	2	\$ 239	440	\$	44,006	
Comprehensive income (loss)	_		_	_	_	_		_	
Proceeds from issuance of capital stock	289		28,944	_	_	289		28,944	
Repurchases/redemptions of capital stock	(186)		(18,620)	(6)	(645)	(192)		(19,265)	
Net shares reclassified (to)/from mandatorily redeemable capital stock	(3)		(340)	(1)	(78)	(4)		(418)	
Transfers between Class B and Class A shares	(8)		(776)	8	776	_		_	
Transfers to unrestricted/(from) restricted retained earnings	_		_	_	_	_		_	
Dividends on capital stock									
Cash	_		_	_	_	_		-	
Stock	1		95	_		1		95	
Balance, March 31, 2023	531	\$	53,070	3	\$ 292	534	\$	53,362	
	_			_					
Balance, December 31, 2021	248	\$	24,831	2	\$ 234	250	\$	25,065	
Comprehensive income (loss)	_		_	_	_	_		_	
Proceeds from issuance of capital stock	78		7,779	_	_	78		7,779	
Repurchases/redemptions of capital stock	(47)		(4,677)	(3)	(361)	(50)		(5,038)	
Net shares reclassified (to)/from mandatorily redeemable capital stock	(16)		(1,646)	(1)	(60)	(17)		(1,706)	
Transfers between Class B and Class A shares	(4)		(407)	4	407	_		_	
Transfers to unrestricted/(from) restricted retained earnings	_		_	_	_	_		_	
Dividends on capital stock									
Cash	_		_	_	_	_		_	
Stock			24					24	
Balance, March 31, 2022	259	\$	25,904	2	\$ 220	261	\$	26,124	

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FEDERAL HOME LOAN BANKS COMBINED STATEMENTS OF CAPITAL (continued) (UNAUDITED)

THREE MONTHS ENDED MARCH 31, 2023 AND 2022

			Re	etained Earnings		Accumulated Other Comprehensive		Total
(dollars and shares in millions)	Unrestricted		Restricted		Total	Income (Loss)	Capital	
Balance, December 31, 2022	\$	18,322	\$	6,232	\$ 24,554	\$ (753)	\$	67,807
Comprehensive income (loss)		1,208		302	1,510	(422)		1,088
Proceeds from issuance of capital stock		_		_	_	_		28,944
Repurchases/redemptions of capital stock		_		_	_	_		(19,265)
Net shares reclassified (to)/from mandatorily redeemable capital stock		_		_	_	_		(418)
Transfers between Class B and Class A shares		_		_	_	_		_
Transfers to unrestricted/(from) restricted retained earnings		_		_	_	_		_
Dividends on capital stock								
Cash		(581)		_	(581)	_		(581)
Stock		(95)		_	(95)	_		_
Balance, March 31, 2023	\$	18,854	\$	6,534	\$ 25,388	\$ (1,175)	\$	77,575
Balance, December 31, 2021	\$	17,110	\$	5,650	\$ 22,760	\$ 1,297	\$	49,122
Comprehensive income (loss)		426		76	502	(862)		(360)
Proceeds from issuance of capital stock		_		_	_	_		7,779
Repurchases/redemptions of capital stock		_		_	_	_		(5,038)
Net shares reclassified (to)/from mandatorily redeemable capital stock		_		_	_	_		(1,706)
Transfers between Class B and Class A shares		_		_	_	_		_
Transfers to unrestricted/(from) restricted retained earnings		16		(16)	_	_		_
Dividends on capital stock								
Cash		(213)		_	(213)	_		(213)
Stock		(24)		_	(24)	_		_
Balance, March 31, 2022	\$	17,315	\$	5,710	\$ 23,025	\$ 435	\$	49,584

FEDERAL HOME LOAN BANKS COMBINED STATEMENTS OF CASH FLOWS (UNAUDITED)

	Three Months E	nded March 31,
(dollars in millions)	2023	2022
Operating activities		
Net income	\$ 1,510	\$ 502
Adjustments to reconcile net income to net cash provided by operating activities		
Depreciation and amortization/(accretion)	640	207
Net change in derivatives and hedging activities	(2,318)	5,898
Net change in fair value adjustments on trading securities	(184)	480
Net change in fair value adjustments on financial instruments held under fair value option	148	(72
Other adjustments, net	(37)	(8
Net change in		
Accrued interest receivable	(794)	(53
Other assets	4	31
Accrued interest payable	1,425	25
Other liabilities	73	(131)
Total adjustments	(1,043)	6,377
Net cash provided by (used in) operating activities	467	6,879
Investing activities		
Net change in		
Interest-bearing deposits	(1,555)	(5,000
Securities purchased under agreements to resell	(53,056)	(3,627
Federal funds sold	(20,936)	(9,918
Trading securities		
Proceeds from sales	1,141	2,500
Proceeds from maturities and paydowns	2,733	4,695
Purchases	(131)	(15,288
Available-for-sale securities		
Proceeds from sales	_	143
Proceeds from maturities and paydowns	3,562	4,706
Purchases	(8,918)	(8,015
Held-to-maturity securities		
Proceeds from sales	10	10
Proceeds from maturities and paydowns	3,057	4,825
Purchases	(6,425)	(3,091
Advances		
Repaid	3,996,965	908,326
Originated	(4,220,064)	(936,259
Mortgage loans held for portfolio		
Principal collected	1,068	2,616
Purchases	(1,269)	(2,699
Other investing activities, net	(17)	(12
Net cash provided by (used in) investing activities	(303,835)	(56,088

FEDERAL HOME LOAN BANKS COMBINED STATEMENTS OF CASH FLOWS (continued) (UNAUDITED)

	Three	Three Months Ended March 31,				
(dollars in millions)			2022			
Financing activities						
Net change in deposits and pass-through reserves, and other financing activities	\$	4,701 \$	5	10		
Net proceeds (payments) on derivative contracts with financing element		(12)		160		
Net proceeds from issuance of consolidated obligations						
Discount notes	1,5	55,503	1,	014,310		
Bonds	4	31,073		102,134		
Payments for maturing and retiring consolidated obligations						
Discount notes	(1,5	07,456)	(983,206)		
Bonds	(1	85,696)		(86,695)		
Proceeds from issuance of capital stock		28,944		7,779		
Payments for repurchases/redemptions of capital stock	(19,265)		(5,038)		
Payments for repurchases/redemptions of mandatorily redeemable capital stock		(328)		(1,144)		
Cash dividends paid		(581)		(213)		
Net cash provided by (used in) financing activities	3	06,883		48,097		
Net increase (decrease) in cash and due from banks		3,515		(1,112)		
Cash and due from banks at beginning of the period		417		3,532		
Cash and due from banks at end of the period	\$	3,932 \$	S	2,420		
Supplemental disclosures						
Cash activities						
Interest paid	\$	10,554	5	714		
Affordable Housing Program payments, net	\$	73 \$	5	75		

NOTES TO COMBINED FINANCIAL STATEMENTS (Unaudited)

Background Information

These financial statements present the combined financial position and combined results of operations of the Federal Home Loan Banks (FHLBanks). The FHLBanks are government-sponsored enterprises (GSEs) that were organized under the Federal Home Loan Bank Act of 1932, as amended (FHLBank Act), to serve the public by enhancing the availability of credit for residential mortgages and targeted community development. Each FHLBank operates as a separate entity with its own management, employees, and board of directors. The FHLBanks are regulated by the Federal Housing Finance Agency (FHFA). The FHLBanks are financial cooperatives that provide a readily available, competitively-priced source of funds to their member institutions.

The Office of Finance is a joint office of the FHLBanks established to facilitate the issuance and servicing of the debt instruments of the FHLBanks, known as consolidated obligations (consolidated bonds and consolidated discount notes), and to prepare the quarterly and annual combined financial reports of the FHLBanks. As provided by the FHLBank Act and applicable regulations, consolidated obligations are backed only by the financial resources of the FHLBanks. Consolidated obligations are the primary source of funds for the FHLBanks in addition to deposits, other borrowings, and capital stock issued to members. The FHLBanks primarily use these funds to provide advances to members.

Unless otherwise stated, dollar amounts disclosed in this Combined Financial Report represent values rounded to the nearest million. Dollar amounts rounding to less than one million are not reflected in this Combined Financial Report.

Note 1 - Summary of Significant Accounting Policies

These unaudited quarterly combined financial statements do not include all disclosures associated with annual combined financial statements, and therefore should be read in conjunction with the audited combined financial statements included in the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022. In addition, the results of operations for interim periods are not necessarily indicative of the results to be expected for the year ending December 31, 2023.

Basis of Presentation

These combined financial statements include the financial statements and records of the FHLBanks that are prepared in accordance with generally accepted accounting principles in the United States of America (GAAP). The information contained in these combined financial statements is not audited. Each FHLBank's financial statements, in the opinion of its management, contain all the necessary adjustments for a fair presentation of its interim financial information.

Principles of Combination. Transactions between the FHLBanks have been eliminated in accordance with combination accounting principles similar to consolidation under GAAP. (See the <u>Condensed Combining Schedules</u> for the combining adjustments, consisting of interbank eliminations and rounding adjustments, made to the combined financial statements.)

Segment Reporting. FHFA regulations consider each FHLBank to be a segment. However, there is no single chief operating decision maker because there is no centralized, system-wide management or centralized board of director oversight of the individual FHLBanks. (See the <u>Condensed Combining Schedules</u> for segment information.)

Use of Estimates

The preparation of financial statements in accordance with GAAP requires each FHLBank's management to make subjective assumptions and estimates that may affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities, and the reported amounts of income and expense. The most significant of these estimates include those used in conjunction with fair value estimates and derivatives and hedging activities. Actual results could differ from these estimates significantly.

Financial Instruments Meeting Netting Requirements

The FHLBanks present certain financial instruments on a net basis when they have a legal right of offset and all other requirements for netting are met (collectively referred to as the netting requirements). For these financial instruments, each of the affected FHLBanks has elected to offset its asset and liability positions, as well as cash collateral received or pledged, when it has met the netting requirements.

The net exposure for these financial instruments can change on a daily basis; therefore, there may be a delay between the time this exposure change is identified and additional collateral is requested, and the time when this collateral is received or pledged. Likewise, there may be a delay for excess collateral to be returned. For derivative instruments that meet the netting requirements, any excess cash collateral received or pledged is recognized as a derivative liability or derivative asset. (See <u>Note 6 - Derivatives and Hedging Activities</u> for additional information regarding these agreements.)

Securities purchased under agreements to resell are also subject to netting requirements. Based on the fair value of the related collateral held, securities purchased under agreements to resell were fully collateralized for the periods presented. There were no offsetting liabilities related to these securities at March 31, 2023 or December 31, 2022.

Mortgage Loans Held for Portfolio

Troubled Debt Restructuring. Prior to January 1, 2023, an FHLBank considered a troubled debt restructuring (TDR) to have occurred when a concession was granted to a borrower for economic or legal reasons related to the borrower's financial difficulties and that concession would not have been considered otherwise. An FHLBank granted a concession when it did not expect to collect all amounts due to the FHLBank under the original contract as a result of the restructuring. Loans that were discharged in Chapter 7 bankruptcy and were not reaffirmed by the borrowers were also considered to be TDRs, except in certain cases where supplemental mortgage insurance policies were held or where all contractual amounts due were still expected to be collected as a result of certain credit enhancements or government guarantees.

Beginning January 1, 2023, the FHLBanks adopted, on a prospective basis, the new accounting guidance pertaining to TDRs and vintage disclosures, which discontinues recognition and measurement guidance on TDRs for entities that have adopted the measurement of credit losses on financial instruments accounting guidance. Mortgage loan modifications occurring after the date of adoption are subject to the accounting guidance pertaining to loan modifications.

Mortgage Loan Modifications. Generally, the FHLBanks only grant mortgage loan modifications to borrowers experiencing financial difficulty. If the terms of the modified loan are at least as favorable to the lender as the terms offered to borrowers with similar collection risks for comparable loans and the modification to the terms of the loan is more than minor, the loan meets the accounting criteria for a new loan. Generally, a modification would not result in a new loan because the modified terms are not as favorable to the lender as terms for comparable loans that would be offered to similar borrowers.

Note 2 - Recently Issued and Adopted Accounting Guidance

The following table provides a summary of recently issued accounting standards which may have an effect on the combined financial statements.

Accounting Standards Update (ASU)	Description	Effective Date	Effect on the Combined Financial Statements or Other Significant Matters
Facilitation of the Effects of Reference Rate Reform on Financial Reporting, as amended (ASU 2020-04)	This update provides temporary optional guidance to ease the potential burden in accounting for reference rate reform. The new guidance provides optional expedients and exceptions for applying generally accepted accounting principles to transactions affected by reference rate reform if certain criteria are met. These transactions include: • contract modifications, • hedging relationships, and • sale and/or transfer of debt securities classified as held-to-maturity.	This guidance became effective for the FHLBanks beginning March 12, 2020 through December 31, 2024.	The FHLBanks either elected or plan to elect the majority of the optional expedients and exceptions provided; however, the full effect on the FHLBanks' combined financial condition, combined results of operations, and combined cash flows has not yet been determined.

Note 3 - Investments

The FHLBanks make short-term investments in interest-bearing deposits, securities purchased under agreements to resell, and federal funds sold and may make other investments in debt securities, which are classified as trading, available-for-sale (AFS), or held-to-maturity (HTM).

Interest-Bearing Deposits, Securities Purchased under Agreements to Resell, and Federal Funds Sold

The FHLBanks invest in interest-bearing deposits, securities purchased under agreements to resell, and federal funds sold to provide short-term liquidity. These investments are generally transacted with counterparties that have received a credit rating of triple-B or greater (investment grade) by a nationally recognized statistical rating organization. At March 31, 2023 and December 31, 2022, none of these investments were with counterparties rated below triple-B and 4% and 3% of these investments, based on amortized cost, were with counterparties that were unrated. These may differ from any internal ratings of the investments by an FHLBank, if applicable.

Federal funds sold are unsecured loans that are generally transacted on an overnight term. FHFA regulations include a limit on the amount of unsecured credit an individual FHLBank may extend to a counterparty. At March 31, 2023 and December 31, 2022, all investments in interest-bearing deposits and federal funds sold were repaid or expected to be repaid according to the contractual terms. No allowance for credit losses was recorded for these assets at March 31, 2023 and December 31, 2022. The carrying values of interest-bearing deposits and federal funds sold exclude accrued interest receivable totaling \$73 million and \$66 million at March 31, 2023 and December 31, 2022.

Securities purchased under agreements to resell are short-term collateralized loans and are structured such that they are evaluated regularly to determine if the market value of the underlying securities decreases below the market value required as collateral (i.e., subject to collateral maintenance provisions). If so, the counterparty must place an equivalent amount of additional securities as collateral or remit an equivalent amount of cash, generally by the next business day. Based upon the collateral held as security and collateral maintenance provisions with the relevant counterparties, each FHLBank determined that no allowance for credit losses was needed for its securities purchased under agreements to resell at March 31, 2023 and December 31, 2022. The carrying value of securities purchased under agreements to resell excludes accrued interest receivable of \$17 million at both March 31, 2023 and December 31, 2022.

Debt Securities

The FHLBanks invest in debt securities, which are classified as trading, AFS, or HTM. Within these investments, the FHLBanks are primarily subject to credit risk related to private-label mortgage-backed securities (private-label MBS or PLMBS) that are supported by underlying mortgage or asset-backed loans. The FHLBanks are prohibited by FHFA regulations from purchasing certain higher-risk securities, such as equity securities and debt instruments that are not investment quality, other than certain investments targeted at low-income persons or communities and instruments that experienced credit deterioration after their purchase by the FHLBanks.

Trading Securities

Table 3.1 presents the fair value of trading securities by major security type at March 31, 2023 and December 31, 2022.

Table 3.1 - Trading Securities by Major Security Type

(dollars in millions)

Fair Value	 March 31, 2023		ber 31, 2022
Non-mortgage-backed securities			
U.S. Treasury obligations	\$ 9,443	\$	12,920
Other U.S. obligations	74		76
GSE and Tennessee Valley Authority obligations	2,063		2,035
Other	 150		148
Total non-mortgage-backed securities	 11,730		15,179
Mortgage-backed securities			
U.S. obligations single-family	1		1
GSE single-family	16		17
GSE multifamily	 670		668
Total mortgage-backed securities	687		686
Total	\$ 12,417	\$	15,865

Table 3.2 presents a summary of net gains (losses) on trading securities for the three months ended March 31, 2023 and 2022.

Table 3.2 - Net Gains (Losses) on Trading Securities

	<u></u>	Three Months Ended March 31,			
		2023		2022	
Net unrealized gains (losses) on trading securities held at period-end	\$	178	\$	(476)	
Net gains (losses) on trading securities sold/matured during the period		6		(4)	
Net gains (losses) on trading securities	\$	184	\$	(480)	

Available-for-Sale Securities

Table 3.3 presents the amortized cost and fair value of AFS securities by major security type at March 31, 2023 and December 31, 2022.

Table 3.3 - AFS Securities by Major Security Type

	March 31, 2023				
	Amortized Cost(1)	Allowance for Credit Losses			Fair Value
Non-mortgage-backed securities					
U.S. Treasury obligations	\$ 33,499	\$ -	\$ 44	\$ (71)	\$ 33,472
Other U.S. obligations	2,037	_	4	(106)	1,935
GSE and Tennessee Valley Authority obligations	7,156	_	89	(43)	7,202
State or local housing agency obligations	1,790	_	_	(17)	1,773
Federal Family Education Loan Program ABS	2,100	_	46	(9)	2,137
Other	595		6	(4)	597
Total non-mortgage-backed securities	47,177	_	189	(250)	47,116
Mortgage-backed securities					
U.S. obligations single-family	4,680	_	7	(22)	4,665
U.S. obligations multifamily	529	_	_	(50)	479
GSE single-family	5,121	_	15	(122)	5,014
GSE multifamily	82,766	_	583	(1,777)	81,572
Private-label	1,299	(37)	54	(27)	1,289
Total mortgage-backed securities	94,395	(37)	659	(1,998)	93,019
Total	\$ 141,572	\$ (37)	\$ 848	\$ (2,248)	\$ 140,135

			December 31, 2022		
	Amortized Cost(1)	Allowance for Credit Losses	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value
Non-mortgage-backed securities					
U.S. Treasury obligations	\$ 33,49	: \$ —	\$ 29	\$ (102)	\$ 33,419
Other U.S. obligations	2,17	_	4	(128)	2,053
GSE and Tennessee Valley Authority obligations	7,11	_	100	(41)	7,174
State or local housing agency obligations	1,79	_	_	(22)	1,768
Federal Family Education Loan Program ABS	2,25	-	61	(10)	2,304
Other	590	_	6	(5)	591
Total non-mortgage-backed securities	47,41	_	200	(308)	47,309
Mortgage-backed securities					
U.S. obligations single-family	4,36	_	5	(32)	4,338
U.S. obligations multifamily	53:	. –	_	(55)	476
GSE single-family	4,21	_	9	(136)	4,092
GSE multifamily	73,079	_	765	(1,515)	72,329
Private-label	1,32	(38)	67	(27)	1,325
Total mortgage-backed securities	83,51	(38)	846	(1,765)	82,560
Total	\$ 130,93	\$ (38)	\$ 1,046	\$ (2,073)	\$ 129,869

⁽¹⁾ Includes adjustments made to the cost basis of an investment for accretion, amortization, net charge-offs, and/or fair value hedge accounting adjustments, and excludes accrued interest receivable of \$484 million and \$468 million at March 31, 2023 and December 31, 2022.

Table 3.4 presents the AFS securities with gross unrealized losses by major security type and length of time that individual securities have been in a continuous unrealized loss position at March 31, 2023 and December 31, 2022.

Table 3.4 - AFS Securities in a Continuous Gross Unrealized Loss Position

			March 3	31, 2023		
	Less than	12 months	12 month	ns or more	То	tal
	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses
Non-mortgage-backed securities						
U.S. Treasury obligations	\$ 8,263	\$ (22)	\$ 6,486	\$ (49)	\$ 14,749	\$ (71)
Other U.S. obligations	501	(7)	893	(99)	1,394	(106)
GSE and Tennessee Valley Authority obligations	277	(4)	431	(39)	708	(43)
State or local housing agency obligations	351	(2)	561	(15)	912	(17)
Federal Family Education Loan Program ABS	335	(9)	_	_	335	(9)
Other			341	(4)	341	(4)
Total non-mortgage-backed securities	9,727	(44)	8,712	(206)	18,439	(250)
Mortgage-backed securities						
U.S. obligations single-family	2,762	(10)	681	(12)	3,443	(22)
U.S. obligations multifamily	_	_	479	(50)	479	(50)
GSE single-family	1,615	(25)	1,835	(97)	3,450	(122)
GSE multifamily	50,443	(638)	16,903	(1,139)	67,346	(1,777)
Private-label	194	(8)	196	(19)	390	(27)
Total mortgage-backed securities	55,014	(681)	20,094	(1,317)	75,108	(1,998)
Total	\$ 64,741	\$ (725)	\$ 28,806	\$ (1,523)	\$ 93,547	\$ (2,248)

		December 31, 2022									
		Less than	12 mor	iths		12 month	s or more		То	tal	
	F	air Value	Gros	ss Unrealized Losses		Fair Value	Gross Unrealized Losses		Fair Value	Gr	oss Unrealized Losses
Non-mortgage-backed securities											
U.S. Treasury obligations	\$	13,714	\$	(41)	\$	3,564	\$ (61)	\$	17,278	\$	(102)
Other U.S. obligations		1,061		(55)		448	(73)		1,509		(128)
GSE and Tennessee Valley Authority obligations		247		(5)		398	(36)		645		(41)
State or local housing agency obligations		1,158		(16)		440	(6)		1,598		(22)
Federal Family Education Loan Program ABS		347		(10)		_	_		347		(10)
Other		_		_		337	(5)		337		(5)
Total non-mortgage-backed securities		16,527		(127)		5,187	(181)		21,714		(308)
Mortgage-backed securities											
U.S. obligations single-family		3,498		(31)		142	(1)		3,640		(32)
U.S. obligations multifamily		310		(36)		166	(19)		476		(55)
GSE single-family		3,052		(102)		388	(34)		3,440		(136)
GSE multifamily		41,891		(740)		8,506	(775)		50,397		(1,515)
Private-label		327		(19)		70	(8)		397		(27)
Total mortgage-backed securities		49,078		(928)		9,272	(837)		58,350		(1,765)
Total	\$	65,605	\$	(1,055)	\$	14,459	\$ (1,018)	\$	80,064	\$	(2,073)

Table 3.5 presents the amortized cost and fair value of AFS securities by contractual maturity at March 31, 2023 and December 31, 2022.

Table 3.5 - AFS Securities by Contractual Maturity

(dollars in millions)

	March	31, 2023	December 31, 2022			
Year of Maturity	Amortized Cost	Fair Value	Amortized Cost	Fair Value		
Non-mortgage-backed securities						
Due in one year or less	\$ 4,683	\$ 4,663	\$ 6,247	\$ 6,211		
Due after one year through five years	25,289	25,341	22,724	22,769		
Due after five years through ten years	12,263	12,254	13,355	13,324		
Due after ten years	2,842	2,721	2,838	2,701		
Federal Family Education Loan Program ABS(1)	2,100	2,137	2,253	2,304		
Total non-mortgage-backed securities	47,177	47,116	47,417	47,309		
Mortgage-backed securities(1)	94,395	93,019	83,517	82,560		
Total	\$ 141,572	\$ 140,135	\$ 130,934	\$ 129,869		

⁽¹⁾ MBS and Federal Family Education Loan Program ABS are not presented by contractual maturity because their expected maturities will likely differ from contractual maturities as borrowers may have the right to call or prepay obligations with or without call or prepayment fees.

Table 3.6 presents the proceeds from sale and gross gains and losses on sale of AFS securities for the three months ended March 31, 2023 and 2022.

Table 3.6 - Proceeds from Sale and Gross Gains and Losses on Sale of AFS Securities

	_	Thre	rch 31,		
		202	3		2022
Proceeds from sale of AFS securities	3	\$		\$	143
Gross gains on sale of AFS securities	Ç	\$	_	\$	_
Gross losses on sale of AFS securities			_		_
Net realized gains (losses) from sale of AFS securities	<u>-</u>	\$		\$	

Held-to-Maturity Securities

Table 3.7 presents the amortized cost, net carrying value, and fair value of HTM securities by major security type at March 31, 2023 and December 31, 2022.

Table 3.7 - HTM Securities by Major Security Type

							March 31, 2023					
	Amortized Cost(1)		lowance for redit Losses	от	TI Recognized in AOCI		Net Carrying Value	U	Gross nrecognized Holding Gains(2)	U	Gross nrecognized Holding Losses(2)	Fair Value
Non-mortgage-backed securities												
Other U.S. obligations	\$ 435	\$	_	\$	_	ç	\$ 435	\$	_	\$	(10)	\$ 425
GSE and Tennessee Valley Authority obligations	1,965	i	_		_		1,965		16		(32)	1,949
State or local housing agency obligations	281	<u>. </u>					281				(15)	266
Total non-mortgage-backed securities	2,681		_		_		2,681		16		(57)	2,640
Mortgage-backed securities												
U.S. obligations single-family	7,172	!	_		_		7,172		20		(187)	7,005
GSE single-family	12,204	ļ	_		_		12,204		29		(363)	11,870
GSE multifamily	38,987	,	_		_		38,987		25		(619)	38,393
Private-label	284	1	(1)		(4)		279		10		(18)	271
Total mortgage-backed securities	58,647	,	(1)		(4)		58,642		84		(1,187)	57,539
Total	\$ 61,328	\$	(1)	\$	(4)	3	61,323	\$	100	\$	(1,244)	\$ 60,179

	December 31, 2022									
	Amortized Cost(1)	Allowance for Credit Losses	OTTI Recognized in AOCI	Net Carrying Value	Gross Unrecognized Holding Gains(2)	Gross Unrecognized Holding Losses(2)	Fair Value			
Non-mortgage-backed securities										
U.S. Treasury obligations	\$ 47	\$ —	\$ -	\$ 47	\$ -	\$ -	\$ 47			
Other U.S. obligations	1,211	_	_	1,211	_	(14)	1,197			
GSE and Tennessee Valley Authority obligations	1,919	_	_	1,919	12	(38)	1,893			
State or local housing agency obligations	281			281		(16)	265			
Total non-mortgage-backed securities	3,458	_	_	3,458	12	(68)	3,402			
Mortgage-backed securities										
U.S. obligations single-family	4,769	_	_	4,769	5	(221)	4,553			
GSE single-family	10,764	_	_	10,764	12	(426)	10,350			
GSE multifamily	38,531	_	_	38,531	5	(787)	37,749			
Private-label	298	<u> </u>	(4	294	11	(18)	287			
Total mortgage-backed securities	54,362	_	(4)	54,358	33	(1,452)	52,939			
Total	\$ 57,820	\$	\$ (4	\$ 57,816	\$ 45	\$ (1,520)	\$ 56,341			

⁽¹⁾ Amortized cost of HTM securities includes adjustments made to the cost basis of an investment for accretion, amortization, and/or net charge-offs and excludes accrued interest receivable of \$175 million and \$149 million at March 31, 2023 and December 31, 2022.

⁽²⁾ Gross unrecognized holding gains (losses) represent the difference between fair value and net carrying value.

Table 3.8 presents the amortized cost, net carrying value, and fair value of HTM securities by contractual maturity at March 31, 2023 and December 31, 2022.

Table 3.8 - HTM Securities by Contractual Maturity

(dollars in millions)

		March 31, 2023					December 31, 2022					
Year of Maturity	Amoi	Amortized Cost		Net Carrying Value(1)		Fair Value		Amortized Cost		Net Carrying Value(1)		Fair Value
Non-mortgage-backed securities												
Due in one year or less	\$	476	\$	476	\$	476	\$	1,116	\$	1,116	\$	1,116
Due after one year through five years		1,569		1,569		1,542		1,698		1,698		1,664
Due after five years through ten years		357		357		352		365		365		354
Due after ten years		279		279		270		279		279		268
Total non-mortgage-backed securities		2,681		2,681		2,640		3,458		3,458		3,402
Mortgage-backed securities(2)		58,647		58,642		57,539		54,362		54,358		52,939
Total	\$	61,328	\$	61,323	\$	60,179	\$	57,820	\$	57,816	\$	56,341

⁽¹⁾ Net carrying value of HTM securities represents amortized cost after adjustments for non-credit-related losses recognized in AOCI and allowance for credit losses.

Certain FHLBanks sold securities out of their respective HTM portfolio that were near enough to their maturity date (for example, within three months of maturity) that changes in market interest rates would not have a significant effect on the security's fair value or had less than 15% of the acquired principal outstanding at the time of the sale. These sales are considered maturities for purposes of security classification. Table 3.9 presents the proceeds from sale and gains and losses on sale of HTM securities for the three months ended March 31, 2023 and 2022.

Table 3.9 - Proceeds from Sale and Gains and Losses on Sale of HTM Securities

(dollars in millions)

	TI	Three Months Ended March 31,				
		2023	2022			
Proceeds from sale of HTM securities	\$	10	\$	10		
Amortized cost of HTM securities sold		10		10		
Net realized gains (losses) from sale of HTM securities	\$	_	\$	_		

Allowance for Credit Losses on AFS and HTM Securities

The FHLBanks evaluate AFS and HTM securities for credit losses on a quarterly basis. During the three months ended March 31, 2023, the FHLBanks did not recognize any provision for or reversal of credit losses. The FHLBanks recognized a reversal of credit losses of \$2 million on AFS securities during the three months ended March 31, 2022.

Table 3.10 presents a rollforward of the allowance for credit losses on debt securities for the three months ended March 31, 2023 and 2022.

Table 3.10 - Allowance for Credit Losses on Debt Securities

	Three Months Ended March 31,										
		20	23		2022						
		AFS		нтм		AFS		нтм			
Balance, at beginning of period	\$	38	\$	_	\$	19	\$	-			
Provision (reversal) for credit losses		_		_		(2)		_			
Charge-offs, net of recoveries		(1)		1		_		_			
Balance, at end of period	\$	37	\$	1	\$	17	\$				

⁽²⁾ MBS are not presented by contractual maturity because their expected maturities will likely differ from contractual maturities as borrowers may have the right to call or prepay obligations with or without call or prepayment fees.

To evaluate investment securities for credit losses at March 31, 2023 and December 31, 2022, the FHLBanks employed the following methodologies, based on the type of security:

AFS and HTM Securities (Excluding PLMBS)

The FHLBanks' AFS and HTM securities are principally certificates of deposit, U.S. Treasury and other U.S. obligations, GSE and Tennessee Valley Authority obligations, state or local housing agency obligations, and MBS issued by Ginnie Mae, Freddie Mac, and Fannie Mae that are backed by single-family or multifamily mortgage loans. The FHLBanks only purchase securities that are considered investment quality. Excluding PLMBS investments, at both March 31, 2023 and December 31, 2022, all of the AFS and HTM securities, based on amortized cost, were rated single-A or above by a nationally recognized statistical rating organization, based on the lowest long-term credit rating for each security used by each individual FHLBank. These may differ from any internal ratings of the securities by an FHLBank, if applicable.

Each FHLBank evaluates its individual AFS securities for impairment by comparing the security's fair value to its amortized cost. Impairment may exist when the fair value of the investment is less than its amortized cost (i.e., in an unrealized loss position). At March 31, 2023 and December 31, 2022, certain of the FHLBanks' AFS securities were in an unrealized loss position. These losses are considered temporary as each FHLBank expects to recover the entire amortized cost basis on these AFS securities and neither intends to sell these securities nor considers it more likely than not that it will be required to sell these securities before its anticipated recovery of each security's remaining amortized cost basis. Furthermore, the FHLBanks had not experienced any payment defaults on these securities at March 31, 2023 or December 31, 2022; and substantially all of these securities are highly-rated. In the case of U.S. obligations, they carry an explicit government guarantee. In the case of GSE securities, they are purchased under an assumption that the issuers' obligation to pay principal and interest on those securities will be honored, taking into account their status as GSEs. As a result, no allowance for credit losses was recorded on these AFS securities at March 31, 2023 and December 31, 2022.

Each FHLBank evaluates its HTM securities for impairment on a collective or pooled basis unless an individual assessment is deemed necessary because the securities do not possess similar risk characteristics. At March 31, 2023 and December 31, 2022, the FHLBanks had not established an allowance for credit losses on any of these HTM securities because the securities: (1) were all highly-rated and/or had short remaining terms to maturity, (2) had not experienced, nor did the FHLBanks expect, any payment default on these securities, (3) in the case of U.S. obligations, carry an explicit government guarantee, and (4) in the case of GSE securities, are purchased under an assumption that the issuers' obligation to pay principal and interest on those securities will be honored, taking into account their status as GSEs.

Private-label MBS

Certain FHLBanks also hold investments in private-label MBS. No FHLBank has purchased private-label MBS since 2008. Although the FHLBanks invested in private-label MBS that at the date of purchase were substantially all rated triple-A, many of these securities have subsequently experienced significant credit deterioration. At both March 31, 2023 and December 31, 2022, 8% of private-label MBS, based on amortized cost, were rated single-A, or above, by a nationally recognized statistical rating organization; and the remaining securities were either rated less than single-A, or were unrated. To determine whether an allowance for credit losses is necessary on these securities, the FHLBanks perform cash flow analyses.

Each applicable FHLBank performs a cash flow analysis using third-party models to assess whether the entire amortized cost basis of its private-label MBS will be recovered. The projected cash flows are based on a number of assumptions and expectations, and the results of these models can vary significantly with changes in assumptions and expectations. The projected cash flows, determined based on the model approach, reflect a best estimate scenario and include a base case housing price forecast and a base case housing price recovery path. At March 31, 2023 and December 31, 2022, the allowance for credit losses was \$37 million and \$38 million for AFS PLMBS.

There was \$1 million of allowance for credit losses on HTM PLMBS at March 31, 2023, and there was no allowance for credit losses on HTM PLMBS at December 31, 2022. For certain private-label MBS where underlying collateral data is not available, alternative procedures as determined by each FHLBank are used to assess these securities for credit loss.

Note 4 - Advances

The FHLBanks offer a wide range of fixed- and variable-rate advance products with different maturities, interest rates, payment characteristics, and optionality. Fixed-rate advances generally have maturities ranging from one day to 30 years. Variable-rate advances generally have maturities ranging from less than 30 days to 20 years, where the interest rates reset periodically at a fixed spread to the London Interbank Offered Rate (LIBOR), the Secured Overnight Financing Rate (SOFR) or other specified indices, or to consolidated obligation yields.

Table 4.1 presents advances outstanding by redemption term and weighted-average interest rate at March 31, 2023 and December 31, 2022.

Table 4.1 - Advances by Redemption Term

(dollars in millions)

		March 3	1, 2023	December 31, 2022			
Redemption Term		Amount(1)	Weighted-Average Interest Rate	Amount(1)	Weighted-Average Interest Rate		
Overdrawn demand and overnight deposit accounts	\$	3	6.03 %	\$ 20	4.78 %		
Due in 1 year or less		650,176	4.69 %	529,606	4.10 %		
Due after 1 year through 2 years		186,879	4.37 %	112,434	3.70 %		
Due after 2 years through 3 years		65,749	4.07 %	57,420	3.33 %		
Due after 3 years through 4 years		46,381	3.40 %	36,117	3.24 %		
Due after 4 years through 5 years		51,342	3.93 %	37,754	3.42 %		
Thereafter		49,624	3.00 %	53,707	2.92 %		
Total principal amount	'	1,050,154	4.42 %	827,058	3.85 %		
Premiums		57		68			
Discounts		(62)		(65)			
Hedging adjustments		(5,497)		(7,874)			
Fair value option valuation adjustments		(38)		(66)			
Total	\$	1,044,614		\$ 819,121			

⁽¹⁾ Carrying amounts exclude accrued interest receivable of \$3,012 million and \$2,302 million at March 31, 2023 and December 31, 2022.

The FHLBanks offer advances to members and housing associates that provide the right, based upon predetermined option exercise dates, to call the advance prior to maturity without incurring prepayment or termination fees (callable advances). The FHLBanks also offer certain floating-rate and/or amortizing advances that may be contractually prepaid by the borrower on specified dates without incurring prepayment or termination fees (prepayable advances). Other advances may only be prepaid by paying a fee to the FHLBank (prepayment fee) that makes the FHLBank financially indifferent to the prepayment of the advance.

Some advances contain embedded options allowing an FHLBank to offer putable and convertible advances. A member can either sell an embedded option to an FHLBank or purchase an embedded option from an FHLBank. With a putable advance to a member, an FHLBank effectively purchases a put option from the member that allows that FHLBank to put or extinguish the fixed-rate advance to the member on predetermined exercise dates. Generally, these put options are exercised when interest rates increase relative to contractual rates.

Convertible advances allow an FHLBank to convert an advance from one interest-payment term structure to another. Fixed-rate to variable-rate convertible advances have a defined lockout period after which they convert to the current market rate or another structure. A convertible advance generally carries a lower initial interest rate

than a comparable-maturity fixed-rate advance without the conversion feature. Variable- to fixed-rate convertible advances have a defined lockout period during which the interest rates adjust based on a spread to LIBOR, SOFR or other specified indices, or consolidated obligation yields. At the end of the lockout period, these advances may convert to fixed-rate advances. The fixed rates on the converted advances are determined at origination.

Table 4.2 presents advances by redemption term or next call date and next put or convert date at March 31, 2023 and December 31, 2022.

Table 4.2 - Advances by Redemption Term or Next Call Date and Next Put or Convert Date (dollars in millions)

		tion Term Call Date(1)		tion Term r Convert Date		
	March 31, 2023	December 31, 2022	March 31, 2023	December 31, 2022		
Overdrawn demand and overnight deposit accounts	\$ 3	\$ 20	\$ 3	\$ 20		
Due in 1 year or less	728,233	588,352	671,545	548,332		
Due after 1 year through 2 years	145,212	90,752	190,069	116,152		
Due after 2 years through 3 years	50,015	43,731	66,756	59,351		
Due after 3 years through 4 years	38,642	26,201	46,303	36,086		
Due after 4 years through 5 years	42,024	31,313	46,358	34,365		
Thereafter	46,025	46,689	29,120	32,752		
Total principal amount	\$ 1,050,154	\$ 827,058	\$ 1,050,154	\$ 827,058		

⁽¹⁾ Also includes certain floating-rate and/or amortizing advances that may be contractually prepaid by the borrower on specified dates without incurring prepayment or termination fees

Table 4.3 presents fixed-rate and variable-rate advances at March 31, 2023 and December 31, 2022.

Table 4.3 - Advances by Current Interest Rate Terms

(dollars in millions)

	March 31, 2023	Dec	cember 31, 2022
Total fixed-rate	\$ 694,856	\$	550,822
Total variable-rate	355,298		276,236
Total principal amount	\$ 1,050,154	\$	827,058

Credit Risk Exposure and Security Terms

The FHLBanks' advances are primarily made to member financial institutions, including commercial banks and insurance companies. Each FHLBank manages its credit exposure to advances through an integrated approach that includes establishing a credit limit for each borrower. This approach includes an ongoing review of each borrower's financial condition, in conjunction with the FHLBank's collateral and lending policies to limit risk of loss, while balancing borrowers' needs for a reliable source of funding.

In addition, each FHLBank lends to eligible borrowers in accordance with federal law and FHFA regulations. Specifically, each FHLBank is required to obtain sufficient collateral to fully secure credit products up to the counterparty's total credit limit. Residential mortgage loans are the principal form of collateral for advances.

An FHLBank either allows a borrower to retain physical possession of the collateral assigned to it, or requires the borrower to specifically assign or place physical possession of the collateral with the FHLBank or its safekeeping agent. Each FHLBank perfects its security interest in all pledged collateral. (See *Note 5 - Advances* on pages F-37 to F-39 of the audited combined financial statements included in the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for additional information about the FHLBanks' collateral securing advances, including eligible collateral types, valuation and other risk mitigation procedures.)

Using a risk-based approach and taking into consideration each borrower's financial strength, the FHLBanks consider the types and level of collateral to be the primary indicator of credit quality on their advances. At March 31, 2023 and December 31, 2022, each FHLBank had rights to collateral on a borrower-by-borrower basis with an estimated value equal to, or greater than, its outstanding advances.

Each FHLBank continues to evaluate and make changes to its collateral guidelines, as necessary, based on current market conditions. At March 31, 2023 and December 31, 2022, none of the FHLBanks had any advances that were considered past due, on nonaccrual status, or considered impaired. In addition, there were no modifications related to advances with borrowers experiencing financial difficulties at any FHLBank during the three months ended March 31, 2023. However, during the three months ended March 31, 2023, certain FHLBank depository members experienced financial difficulties, which resulted in voluntary liquidation or FDIC receivership. The FHLBank advances to these members were either no longer outstanding as of March 31, 2023, or assumed by a successor entity. Based on the collateral held as security, each FHLBank management's credit extension and collateral policies, and repayment history on advances, no allowance for credit losses on advances was recorded at March 31, 2023 or December 31, 2022.

Note 5 - Mortgage Loans

Mortgage Loans Held for Portfolio

Mortgage loans held for portfolio consist of loans obtained through the Mortgage Purchase Program (MPP), Mortgage Partnership Finance® (MPF®) Program ("Mortgage Partnership Finance," "MPF," and "MPF Xtra®" are registered trademarks of the FHLBank of Chicago), and Mortgage Asset Program (MAP®), and are either conventional mortgage loans or government-guaranteed or -insured mortgage loans. Under these mortgage programs, the FHLBanks purchase single-family mortgage loans that are originated or acquired by participating financial institutions. These mortgage loans are credit-enhanced by participating financial institutions or are guaranteed or insured by federal agencies.

Table 5.1 presents the composition of mortgage loans held for portfolio, net of the allowance for credit losses at March 31, 2023 and December 31, 2022.

Table 5.1 - Mortgage Loans Held for Portfolio

	March 31, 2023		December 31, 2022
Fixed-rate, long-term single-family mortgage loans	\$ 49,85	9	\$ 49,489
Fixed-rate, medium-term(1) single-family mortgage loans	5,57	2	5,750
Total unpaid principal balance	55,43	1	55,239
Premiums	92	9	938
Discounts	(6	7)	(64)
Hedging adjustments	(3	5)	(35)
Total mortgage loans held for portfolio(2)	56,25	8	56,078
Allowance for credit losses on mortgage loans	(3	0)	(30)
Mortgage loans held for portfolio, net	\$ 56,22	8	\$ 56,048

⁽¹⁾ Medium-term is defined as a term of 15 years or less.

⁽²⁾ Excludes accrued interest receivable of \$264 million and \$258 million at March 31, 2023 and December 31, 2022.

Table 5.2 presents mortgage loans held for portfolio by collateral/guarantee type at March 31, 2023 and December 31, 2022.

Table 5.2 - Mortgage Loans Held for Portfolio by Collateral/Guarantee Type

(dollars in millions)

	Mar	March 31, 2023		nber 31, 2022
Conventional mortgage loans	\$	53,246	\$	53,013
Government-guaranteed or -insured mortgage loans		2,185		2,226
Total unpaid principal balance	\$	55,431	\$	55,239

Credit Enhancements. An FHLBank's allowance for credit losses considers the credit enhancements associated with conventional mortgage loans under the MPF Program, MPP, and MAP. Credit enhancements may include primary mortgage insurance, supplemental mortgage insurance, the credit enhancement amount plus any recoverable performance-based credit enhancement fees (for certain MPF loans), Lender Risk Account (for MPP loans), and Member Performance Account (for MAP loans). The credit risk analysis of all conventional loans is performed at the individual master commitment level to determine the credit enhancements available to recover losses on loans under each individual master commitment.

MPF Program. Participating financial institutions are paid a credit enhancement fee for assuming credit risk, and in some instances all or a portion of the credit enhancement fee may be performance-based. An FHLBank records credit enhancement fees paid to the participating financial institutions as a reduction to mortgage interest income. A participating financial institution may obtain supplemental mortgage insurance that it intends to use to cover a portion of its credit loss obligation under a master commitment.

Conventional MPF loans are evaluated for credit enhancement by use of third-party models. Each FHLBank participating in the MPF program (MPF FHLBank) and its participating financial institution share the risk of credit losses on conventional MPF loan products held for portfolio, by structuring potential losses into layers with respect to each master commitment. Credit losses in a master commitment are first absorbed by an FHLBank, up to a specified amount referred to as the First Loss Account. For certain product master commitments, the FHLBank may withhold a participating financial institution's scheduled performance credit enhancement fee in order to reimburse the FHLBank for a portion of credit losses allocated to the First Loss Account.

The First Loss Account represents the first layer or portion of credit losses that each MPF FHLBank absorbs with respect to its MPF loans after considering the borrower's equity, primary mortgage insurance, and recoverable credit enhancement fees. The participating financial institution is required to cover the next layer of losses up to an agreed-upon credit enhancement obligation amount, which may consist of a direct liability of the participating financial institution to pay credit losses up to a specified amount, a contractual obligation of a participating financial institution to provide supplemental mortgage insurance, or a combination of both. Any remaining unallocated losses are absorbed by the MPF FHLBank.

Unlike conventional MPF products held for portfolio, under the MPF Xtra®, MPF Government, and MPF Government MBS products, participating financial institutions are not required to provide credit enhancement and do not receive credit enhancement fees. Loans sold to the FHLBank of Chicago under the MPF Xtra® product are concurrently sold to third-party investors, and are not recorded on the MPF FHLBank's statement of condition.

MPP and MAP Loans. The conventional mortgage loans under the MPP are supported by a Lender Risk Account, and may also be supported by primary or supplemental mortgage insurance, in addition to the associated property as collateral. The Lender Risk Account is funded by an FHLBank participating in the MPP (MPP FHLBank) either upfront as a portion of the purchase proceeds or through a portion of the net interest remitted monthly by the borrower in an amount sufficient to cover expected losses on the pool of mortgages. The Lender Risk Account is recorded in other liabilities on the Combined Statement of Condition. To the extent available, Lender Risk Account funds are used to offset any losses that occur. Typically after five years, excess funds over required balances are returned to the participating financial institution in accordance with a step-down schedule that is established upon execution of a master commitment contract. The Lender Risk Account is released in accordance with the terms of the master commitment. Similar to the MPP's Lender Risk Account, the FHLBank of New York maintains a Member Performance Account as credit enhancement for MAP loans. At both March 31, 2023 and December 31, 2022, the amount of the credit enhancements in the Lender Risk and Member Performance accounts remaining to cover future potential losses totaled \$483 million.

Payment Status of Mortgage Loans. Payment status is the key credit quality indicator for conventional mortgage loans and allows the FHLBanks to monitor borrower performance. A past due loan is one where the borrower has failed to make a full payment of principal and interest within 30 days of its due date. Other delinquency statistics include, non-accrual loans and loans in process of foreclosure. Tables 5.3 and 5.4 present the payment status for conventional mortgage loans and other delinquency statistics for all of the FHLBanks' mortgage loans at March 31, 2023 and December 31, 2022.

Table 5.3 - Credit Quality Indicator for Conventional Mortgage Loans (dollars in millions)

		March 31, 2023										
	Conventional Mortgage Loans											
		Origin										
Payment Status at Amortized Cost(1)		Prior to 2019 2019 to 2023			Total							
Past due 30-59 days	\$	\$ 174	\$	185	\$	359						
Past due 60-89 days		39		31		70						
Past due 90 days or more		114		47		161						
Total past due mortgage loans	_	327		263		590						
Total current mortgage loans		14,829		38,624		53,453						
Total conventional mortgage loans	\$	\$ 15,156	\$	38,887	\$	54,043						

	December 31, 2022									
	Conventional Mortgage Loans									
Payment Status at Amortized Cost(1)		Prior to 2018		2018 to 2022		Total				
Past due 30-59 days	\$	133	\$	182	\$	315				
Past due 60-89 days		35		38		73				
Past due 90 days or more		93		78		171				
Total past due mortgage loans		261		298		559				
Total current mortgage loans		13,149		40,112		53,261				
Total conventional mortgage loans	\$	13,410	\$	40,410	\$	53,820				

⁽¹⁾ Amortized cost excludes accrued interest receivable.

Table 5.4 - Other Delinquency Statistics

(dollars in millions)

	March 31, 2023										
Amortized Cost	Conver Mortgag		Gua	vernment- ranteed or - Insured	Total						
In process of foreclosure(1)	\$	54	\$	11	\$	65					
Serious delinquency rate(2)		0.31 %		1.72 %		0.36 %					
Past due 90 days or more and still accruing interest	\$	21	\$	36	\$	57					
Loans on non-accrual status(3)	\$	184	\$	_	\$	184					

	December 31, 2022									
Amortized Cost		ventional gage Loans	Guar	vernment- ranteed or - Insured		Total				
In process of foreclosure(1)	\$	64	\$	13	\$	77				
Serious delinquency rate(2)		0.33 %		1.86 %		0.39 %				
Past due 90 days or more and still accruing interest	\$	21	\$	40	\$	61				
Loans on non-accrual status(3)	\$	201	\$	_	\$	201				

⁽¹⁾ Includes loans where the decision of foreclosure or a similar alternative, such as pursuit of deed-in-lieu, has been reported.

Allowance for Credit Losses for Mortgage Loans

See *Note 1 - Summary of Significant Accounting Policies* on pages F-20 to F-22 and *Note 6 - Mortgage Loans* on pages F-40 to F-44 of the audited combined financial statements included in the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for information on measuring credit losses on mortgage loans, placing them on non-accrual status, and charging them off when necessary.

Each FHLBank established an allowance for credit losses on its conventional mortgage loans held for portfolio. Table 5.5 presents a rollforward of the allowance for credit losses on conventional mortgage loans for the three months ended March 31, 2023 and 2022.

Table 5.5 - Allowance for Credit Losses on Conventional Mortgage Loans

	 Three Months Ended March 31,					
	 2023	2022				
Balance, at beginning of period	\$ 30	\$	23			
(Charge-offs), net of recoveries	_		_			
Provision (reversal) for credit losses	 		2			
Balance, at end of period	\$ 30	\$	25			

⁽²⁾ Represents seriously delinquent loans as a percentage of total mortgage loans. Seriously delinquent loans are comprised of all loans past due 90 days or more and loans that are in the process of foreclosure.

⁽³⁾ At March 31, 2023 and December 31, 2022, \$94 million and \$104 million of conventional mortgage loans on non-accrual status did not have a related allowance for credit losses because either these loans were previously charged-off to the expected recoverable value or the fair value of the underlying collateral, including any credit enhancements, was greater than the amortized cost of the loans.

Government-Guaranteed or -Insured Mortgage Loans. An FHLBank may invest in fixed-rate mortgage loans that are insured or guaranteed by the Federal Housing Administration, the Department of Veterans Affairs, the Rural Housing Service of the Department of Agriculture, and/or the Department of Housing and Urban Development. The servicer provides and maintains insurance or a guarantee from the applicable government agency. Therefore, each FHLBank only has credit risk for these loans if the servicer fails to pay for losses not covered by the guarantee or insurance, but in such instance, the FHLBank would have recourse against the servicer for such failure. Based on each FHLBank's assessment of its servicers and the collateral backing the loans, the risk of loss was immaterial and, consequently, no FHLBank recorded an allowance for credit losses for government-guaranteed or -insured mortgage loans at March 31, 2023 and December 31, 2022.

Note 6 - Derivatives and Hedging Activities

Nature of Business Activity

The FHLBanks are exposed to interest-rate risk primarily from the effect of interest rate changes on their interest-earning assets and their interest-bearing liabilities that finance these assets. The goal of each FHLBank's interest-rate risk management strategy is not to eliminate interest-rate risk, but to manage it within appropriate limits. To mitigate the risk of loss, each FHLBank has established policies and procedures, which include guidelines on the amount of exposure to interest rate changes it is willing to accept. In addition, each FHLBank monitors the risk to its interest income, net interest margin, and average maturity of interest-earning assets and interest-bearing liabilities. (See *Note 7 - Derivatives and Hedging Activities* on pages F-44 to F-52 of the audited combined financial statements included in the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for a description of the application of derivatives and the types of derivatives and hedged items.)

Each FHLBank reevaluates its hedging strategies periodically and may change the hedging techniques it uses or may adopt new strategies. Each FHLBank transacts most of its derivatives with counterparties that are large banks and major broker-dealers. Some of these banks and broker-dealers, or their affiliates, buy, sell, and distribute consolidated obligations. Derivative transactions may be either executed with a counterparty, referred to as uncleared derivatives, or cleared through a Futures Commission Merchant (i.e., clearing agent) with a Derivative Clearing Organization, referred to as cleared derivatives. The FHLBanks are not derivative dealers and do not trade derivatives for short-term profit.

Financial Statement Effect and Additional Financial Information

Derivative Notional Amounts. The notional amount of derivatives serves as a factor in determining periodic interest payments or cash flows received and paid. However, the notional amount of derivatives reflects the FHLBanks' involvement in the various classes of financial instruments and represents neither the actual amounts exchanged nor the overall exposure of the FHLBanks to credit and market risk; the overall risk is much smaller. The risks of derivatives can be measured meaningfully on a portfolio basis that takes into account the counterparties, the types of derivatives, the items being hedged, and any offsets between the derivatives and the items being hedged.

Table 6.1 presents the notional amount, fair value of derivative instruments, and total derivative assets and liabilities at March 31, 2023 and December 31, 2022. Total derivative assets and liabilities include the effect of netting adjustments and cash collateral. For purposes of this disclosure, the derivative values include the fair value of derivatives and the related accrued interest.

Table 6.1 - Fair Value of Derivative Instruments

(dollars in millions)

		March 31, 2023		December 31, 2022						
	Notional Amount of Derivatives	Derivative Assets	Derivative Liabilities			Derivative Liabilities				
Derivatives designated as hedging instruments										
Interest-rate swaps	\$ 910,728	\$ 3,940	\$ 15,028	\$ 726,249	\$ 4,749	\$ 17,023				
Derivatives not designated as hedging instruments										
Interest-rate swaps	274,265	1,501	1,177	222,381	1,512	1,161				
Interest-rate swaptions	1,800	11	_	1,505	12	_				
Interest-rate caps or floors	6,815	9	_	6,730	9	_				
Interest-rate futures or forwards	209	_	2	76	_	_				
Mortgage delivery commitments	643	4	1	299	1	1				
Other	79	_	1	153	1	_				
Total derivatives not designated as hedging instruments	283,811	1,525	1,181	231,144	1,535	1,162				
Total derivatives before netting and collateral adjustments	\$ 1,194,539	5,465	16,209	\$ 957,393	6,284	18,185				
Netting adjustments and cash collateral(1)		(1,826)	(15,902)		(3,264)	(18,061)				
Total derivative assets and total derivative liabilities		\$ 3,639	\$ 307		\$ 3,020	\$ 124				

⁽¹⁾ Amounts represent the application of the netting requirements that allow an FHLBank to settle positive and negative positions, and also cash collateral, including accrued interest, held or placed by that FHLBank with the same clearing agent and/or counterparty. Cash collateral posted, including accrued interest, was \$14,258 million and \$15,131 million at March 31, 2023 and December 31, 2022. Cash collateral received, including accrued interest, was \$1,676 million and \$1,755 million at March 31, 2023 and December 31, 2022.

Table 6.2 presents the net gains (losses) on qualifying and discontinued fair value and cash flow hedging relationships for the three months ended March 31, 2023 and 2022.

Table 6.2 - Net Gains (Losses) on Fair Value and Cash Flow Hedging Relationships

				Three N	lonth	s Ended March 3	1, 20	23	
				Interest Inco	me/E	xpense			Other
	Advances		Available-for-Sale Securities		Consolidated Discount Notes		Consolidate Bonds		Comprehensive Income
Total interest income (expense) presented on the Combined Statement of Income	\$	10,808	\$	1,728	\$	(5,304)	\$	(8,431)	
Gains (losses) on fair value hedging relationships									
Interest rate contracts									
Derivatives(1)	\$	(1,442)	\$	(1,452)	\$	51	\$	1,444	
Hedged items(2)		2,276		2,077		(75)		(3,303)	
Net gains (losses) on fair value hedging relationships	\$	834	\$	625	\$	(24)	\$	(1,859)	
Gains (losses) on cash flow hedging relationships(3)									
Interest rate contracts									
Reclassified from AOCI into interest income (expense)	\$	-	\$	_	\$	14	\$	(1)	
Recognized in OCI									\$ (59)

				Three N	/lontl	ns Ended March 3	Three Months Ended March 31, 2022									
				Oth	or											
	-	Advances	Av	ailable-for-Sale Securities		Consolidated Discount Notes		Consolidated Bonds	Compreh Inco	ensive						
Total interest income (expense) presented on the Combined Statement of Income	\$	634	\$	340	\$	(87)	\$	(549)								
Gains (losses) on fair value hedging relationships																
Interest rate contracts																
Derivatives(1)	\$	4,168	\$	3,894	\$	(15)	\$	(6,688)								
Hedged items(2)		(4,533)		(4,209)		23		7,111								
Net gains (losses) on fair value hedging relationships	\$	(365)	\$	(315)	\$	8	\$	423								
Gains (losses) on cash flow hedging relationships(3)																
Interest rate contracts																
Reclassified from AOCI into interest income (expense)	\$	_	\$	_	\$	(9)	\$	(2)								
Recognized in OCI									\$	220						

⁽¹⁾ Includes changes in fair value and net interest settlements and excludes the interest income (expense) of the respective hedged item.

For the three months ended March 31, 2023 and 2022, no material amounts were reclassified from AOCI into earnings as a result of discontinued cash flow hedges because the original forecasted transactions occurred by the end of the originally specified time period or within a two-month period thereafter. At March 31, 2023, \$24 million of deferred net gains on derivative instruments in AOCI was expected to be reclassified to earnings during the next twelve months. At March 31, 2023, the maximum length of time over which an FHLBank was hedging its exposure to the variability in future cash flows for forecasted transactions was nine years, excluding those forecasted transactions related to the payment of variable interest on existing financial instruments.

Table 6.3 presents the cumulative basis adjustments on hedged items designated in fair value hedging relationships and the related amortized cost of the hedged items at March 31, 2023 and December 31, 2022.

Table 6.3 - Cumulative Basis Adjustments for Fair Value Hedges

	March 31, 2023									
	Advances		Available-for-Sale Securities		Mortgage Loans		Consolidated Discount Notes		Consolidated Bonds	
Amortized cost of hedged asset or liability(1)	\$	315,160	\$	108,946	\$	203	\$	75,637	\$	389,774
Fair value hedging adjustments										
Basis adjustments for active hedging relationships included in amortized cost	\$	(5,443)	\$	(7,658)	\$	_	\$	(12)	\$	(13,293)
Basis adjustments for discontinued hedging relationships included in amortized cost		(54)		1,224		4		_		105
Total amount of fair value hedging basis adjustments	\$	(5,497)	\$	(6,434)	\$	4	\$	(12)	\$	(13,188)

	December 31, 2022									
		Advances	Available-for-Sale Securities		Mortgage Loans		Consolidated Discount Notes		Consolidated Bonds	
Amortized cost of hedged asset or liability(1)	\$	208,973	\$	100,261	\$	211	\$	85,593	\$	315,913
Fair value hedging adjustments										
Basis adjustments for active hedging relationships included in amortized cost	\$	(7,882)	\$	(10,144)	\$	_	\$	(87)	\$	(16,716)
Basis adjustments for discontinued hedging relationships included in amortized cost		8		1,408		4		_		126
Total amount of fair value hedging basis adjustments	\$	(7,874)	\$	(8,736)	\$	4	\$	(87)	\$	(16,590)

⁽¹⁾ Includes only the portion of amortized cost representing the hedged items in active or discontinued fair value hedging relationships.

⁽²⁾ Includes changes in fair value and amortization and accretion of basis adjustments.

⁽³⁾ Includes changes in fair value, net interest settlements, and amortization and accretion of hedging activities into interest income. Excludes the interest income (expense) of the respective hedged item.

Table 6.4 presents net gains (losses) related to derivatives and economic hedging activities recorded in non-interest income for the three months ended March 31, 2023 and 2022.

Table 6.4 - Net Gains (Losses) on Derivatives and Economic Hedging Activities Recorded in Non-interest Income (dollars in millions)

	Thr	Three Months Ended March 31,					
Derivatives not designated as hedging instruments		023	2022				
Economic hedges							
Interest-rate swaps	\$	(41) \$	329				
Interest-rate swaptions		(3)	15				
Interest-rate caps or floors		(3)	5				
Interest-rate futures or forwards		(2)	12				
Net interest settlements		2	(52)				
Other		_	8				
Mortgage delivery commitments		2	(34)				
Total net gains (losses) related to derivatives not designated as hedging instruments		(45)	283				
Price alignment amount(1)		(23)					
Net gains (losses) on derivatives	\$	(68) \$	283				

⁽¹⁾ This amount is for derivatives for which variation margin is characterized as a daily settled contract.

Managing Credit Risk on Derivatives

Each FHLBank is subject to credit risk due to the risk of non-performance by counterparties to its derivative transactions, and manages credit risk through credit analysis, collateral requirements, and adherence to the requirements set forth in its policies, U.S. Commodity Futures Trading Commission regulations, and FHFA regulations.

Uncleared Derivatives. For uncleared derivatives, the degree of credit risk depends on the extent to which master netting arrangements are included in these contracts to mitigate the risk. Each FHLBank requires collateral agreements on its uncleared derivatives. Additionally, collateral related to derivatives with member institutions includes collateral assigned to an FHLBank, as evidenced by a written security agreement and held by the member institution for the benefit of that FHLBank.

Certain of the FHLBanks' uncleared derivative instruments contain provisions that require an FHLBank to post additional collateral with its counterparties if there is deterioration in that FHLBank's credit rating. If an FHLBank's credit rating is lowered by a nationally recognized statistical rating organization, that FHLBank may be required to deliver additional collateral on uncleared derivative instruments in net liability positions, unless the collateral delivery threshold is set to zero. The aggregate fair value of all uncleared derivative instruments with credit-risk-related contingent features that require an FHLBank to deliver additional collateral due to a credit downgrade and were in a net liability position (before cash collateral and related accrued interest) at March 31, 2023, was \$3,124 million, for which the FHLBanks have posted collateral with a fair value of \$3,162 million in the normal course of business. If each FHLBank's credit rating had been lowered from its current rating to the next lower rating that would have triggered additional collateral to be delivered, the FHLBanks would have been required to deliver less than one million dollars of additional collateral at fair value to their uncleared derivatives counterparties at March 31, 2023.

Uncleared derivative transactions executed on or after the dates specified in applicable regulations are subject to two-way initial margin requirements as mandated by the Wall Street Reform and Consumer Protection Act, or Dodd-Frank Act, if an FHLBank's aggregate uncleared derivative transactions exposure to a counterparty exceeds a specified threshold. The initial margin is required to be held at a third-party custodian and does not change ownership. Rather, the party in respect of which the initial margin has been posted to the third-party custodian will have a security interest in the amount of initial margin required under the uncleared margin rules and can only take ownership upon the occurrence of certain events, including an event of default due to bankruptcy, insolvency, or similar proceeding.

For all uncleared transactions entered into on or after March 1, 2017, the derivative agreements are fully collateralized with a zero unsecured threshold in accordance with variation margin requirements issued by the U.S. federal bank regulatory agencies and the Commodity Futures Trading Commission.

Cleared Derivatives. For cleared derivatives, a Derivative Clearing Organization (Clearinghouse) is an FHLBank's counterparty. The Clearinghouse notifies the clearing agent of the required initial and variation margin and the clearing agent in turn notifies the FHLBank. Each FHLBank utilizes one or two Clearinghouses for all cleared derivative transactions, LCH Ltd. and/or CME Clearing. At both Clearinghouses, variation margin is characterized as daily settlement payments and initial margin is considered collateral. The requirement that an FHLBank post initial and variation margin, through the clearing agent to the Clearinghouse, exposes an FHLBank to credit risk if the clearing agent or the Clearinghouse fails to meet its obligations. The use of cleared derivatives is intended to mitigate credit risk exposure because a central counterparty is substituted for individual counterparties and collateral/payments for changes in the fair value of cleared derivatives is posted daily through a clearing agent.

The Clearinghouse determines initial margin requirements and generally credit ratings are not factored into the initial margin. However, clearing agents may require additional initial margin to be posted based on credit considerations, including, but not limited to, credit rating downgrades. None of the FHLBanks were required to post additional initial margin by its clearing agents, based on credit considerations, at March 31, 2023.

Offsetting of Derivative Assets and Derivative Liabilities

An FHLBank presents derivative instruments, related cash collateral received or pledged, and associated accrued interest, on a net basis by clearing agent and/or by counterparty when it has met the netting requirements.

Each FHLBank has analyzed the enforceability of offsetting rights incorporated in its cleared derivative transactions and determined that the exercise of those offsetting rights by a non-defaulting party under these transactions should be upheld under applicable law upon an event of default including a bankruptcy, insolvency, or similar proceeding involving the Clearinghouse or that FHLBank's clearing agent, or both. Based on this analysis, each FHLBank presents a net derivative receivable or payable for all of its transactions through a particular clearing agent with a particular Clearinghouse.

Table 6.5 presents separately the fair value of derivative instruments meeting or not meeting netting requirements, with and without the legal right of offset, including the related collateral at March 31, 2023 and December 31, 2022.

Table 6.5 - Offsetting of Derivative Assets and Derivative Liabilities (dollars in millions)

March 31, 2023 Derivative Instruments Meeting Netting Requirements Non-cash Collateral Not Offset **Total Derivative** Gross Amounts of Derivative Instruments Not **Assets and Total** Netting Adjustments and Meeting Netting Requirements(1) Derivative Liabilities Can Be Sold or Cannot Be Sold or **Gross Recognized** Amount Cash Collateral Repledged Repledged Net Amount(2) **Derivative Assets** \$ Uncleared \$ 3,751 \$ (3,491)\$ 4 \$ 264 \$ 96 \$ 168 Cleared 1,710 1,665 3,375 (864)4,239 \$ 3,639 \$ 4,407 Total **Derivative Liabilities** Uncleared \$ 14,014 \$ (13,918)\$ 1 \$ 97 \$ \$ 8 \$ 89 35 89 Cleared 2,194 (1,984)210 Total 307 178

							Dec	cember 31, 2022					
	Derivative Instruments Meeting Netting Requirements								Non-cash Collat	eral	Not Offset		
		s Recognized Amount	Ad	oss Amounts of Netting Ijustments and ash Collateral	M	Derivative struments Not leeting Netting equirements(1)		otal Derivative Assets and Total Derivative Liabilities	Can Be Sold or Repledged	Ca	nnot Be Sold or Repledged	N	et Amount(2)
Derivative Assets													
Uncleared	\$	4,409	\$	(4,236)	\$	1	\$	174	\$ _	\$	109	\$	65
Cleared		1,874		972		_		2,846	(435)		_		3,281
Total							\$	3,020				\$	3,346
Derivative Liabili	ties												
Uncleared	\$	16,526	\$	(16,406)	\$	1	\$	121	\$ _	\$	_	\$	121
Cleared		1,658		(1,655)		_		3	1		_		2
Total							\$	124				\$	123

⁽¹⁾ Represents derivatives that are not subject to an enforceable netting agreement (e.g., mortgage delivery commitments and certain interest-rate futures or forwards).

Note 7 - Deposits

The FHLBanks offer demand and overnight deposit programs to members and to qualifying non-members. In addition, certain FHLBanks offer short-term interest-bearing deposit programs to members, and in certain cases, to qualifying non-members. A member that services mortgage loans may deposit in its FHLBank funds collected in connection with the mortgage loans, pending disbursement of these funds to the owners of the mortgage loans. The FHLBanks classify these funds as other deposits. Deposits classified as demand, overnight, or other pay interest based on a daily interest rate. Term deposits pay interest based on a fixed rate determined at the issuance of the deposit.

Table 7.1 presents interest-bearing and non-interest bearing deposits at March 31, 2023 and December 31, 2022.

Table 7.1 - Deposits

	March 31, 2023		Decemb	er 31, 2022
Interest-bearing				
Demand and overnight	\$	14,685	\$	9,942
Term		138		139
Other		7		9
Total interest-bearing		14,830		10,090
Non-interest-bearing				
Demand and overnight		120		100
Other		179		175
Total non-interest-bearing		299		275
Total deposits	\$	15,129	\$	10,365

⁽²⁾ Any over-collateralization at an FHLBank's individual clearing agent and/or counterparty level is not included in the determination of the net amount. At March 31, 2023 and December 31, 2022, the FHLBank's had additional net credit exposure of \$2,320 million and \$1,703 million due to instances where an FHLBank's non-cash collateral to a counterparty exceeded the FHLBank's net derivative position.

Note 8 - Consolidated Obligations

Consolidated obligations consist of consolidated bonds and consolidated discount notes, which are joint and several obligations of all FHLBanks. The FHLBanks issue consolidated obligations through the Office of Finance as their agent. In connection with each debt issuance, an FHLBank specifies the amount of debt it wants issued on its behalf. The Office of Finance tracks the amount of debt issued on behalf of each FHLBank. In addition, each FHLBank records as a liability its specific portion of consolidated obligations for which it is the primary obligor.

The FHFA and the Secretary of the Treasury oversee the issuance of FHLBank debt through the Office of Finance. Consolidated bonds may be issued to raise short-, intermediate-, or long-term funds for the FHLBanks and are not subject to any statutory or regulatory limits on their maturity. Consolidated discount notes are issued primarily to raise short-term funds and have original maturities of up to one year. These notes generally sell below their face value and are redeemed at face value when they mature.

Although each FHLBank is primarily liable for its portion of consolidated obligations, each FHLBank is also jointly and severally liable with the other FHLBanks for the payment of principal and interest on all consolidated obligations of the FHLBanks. The principal amount of the FHLBanks' outstanding consolidated obligations, including consolidated obligations held by other FHLBanks, was \$1,477.7 billion and \$1,181.7 billion at March 31, 2023 and December 31, 2022.

Table 8.1 presents the carrying value and principal amount of consolidated discount notes outstanding and the weighted-average interest rate at March 31, 2023 and December 31, 2022.

Table 8.1 - Consolidated Discount Notes Outstanding

(dollars in millions)

	Carryin	g Value	Principa	al Amount	Weighted-Average Interest Rate(1)	
March 31, 2023	\$	515,041	\$	520,277	4.64 %	
December 31, 2022	\$	466,049	\$	469,565	4.00 %	

⁽¹⁾ Represents yield to maturity excluding concession fees.

Table 8.2 presents consolidated bonds outstanding by contractual maturity and the weighted-average interest rate at March 31, 2023 and December 31, 2022.

Table 8.2 - Consolidated Bonds Outstanding by Contractual Maturity

	March 3	31, 2023	December 31, 2022				
Year of Contractual Maturity	Amount	Weighted-Average Interest Rate	Amount	Weighted-Average Interest Rate			
Due in 1 year or less	\$ 584,323	4.49 %	\$ 375,821	3.85 %			
Due after 1 year through 2 years	161,157	3.06 %	117,726	2.47 %			
Due after 2 years through 3 years	68,035	1.83 %	55,935	1.82 %			
Due after 3 years through 4 years	65,314	1.53 %	73,648	1.22 %			
Due after 4 years through 5 years	26,537	2.89 %	33,575	2.27 %			
Thereafter	51,920	2.45 %	55,367	2.33 %			
Total principal amount	957,286	3.70 %	712,072	3.00 %			
Net premiums	213		232				
Hedging adjustments	(13,188)		(16,590)				
Fair value option valuation adjustments	(237)		(333)				
Total	\$ 944,074		\$ 695,381				

Consolidated bonds outstanding were issued with either fixed-rate coupon payment terms or variable-rate coupon payment terms that are indexed to specified indices, such as SOFR. To meet the specific needs of both the FHLBanks and certain investors in consolidated obligations, both fixed-rate and variable-rate consolidated bonds may contain features that result in complex coupon payment terms and call options. When these consolidated bonds are issued, an FHLBank may enter into derivatives containing features that offset the terms and embedded options, if any, of the consolidated bond obligations.

Table 8.3 presents consolidated bonds outstanding by call features at March 31, 2023 and December 31, 2022.

Table 8.3 - Consolidated Bonds Outstanding by Call Features

(dollars in millions)

Principal Amount of Consolidated Bonds	March 3	1, 2023	Decembe	er 31, 2022
Non-callable/non-putable	\$	641,559	\$	438,252
Callable		315,727		273,820
Total principal amount	\$	957,286	\$	712,072

Table 8.4 presents consolidated bonds outstanding by contractual maturity or next call date at March 31, 2023 and December 31, 2022.

Table 8.4 - Consolidated Bonds Outstanding by Contractual Maturity or Next Call Date

(dollars in millions)

Year of Contractual Maturity or Next Call Date	Next Call Date March 31, 2023		December 31, 2022		
Due in 1 year or less	\$	837,287	\$	604,575	
Due after 1 year through 2 years		69,607		60,103	
Due after 2 years through 3 years		17,231		13,509	
Due after 3 years through 4 years		12,385		13,525	
Due after 4 years through 5 years		6,006		5,332	
Thereafter		14,770		15,028	
Total principal amount	\$	957,286	\$	712,072	

Note 9 - Capital

Each FHLBank is subject to three capital requirements under its capital plan and the FHFA rules and regulations. Regulatory capital does not include AOCI, but does include mandatorily redeemable capital stock.

- 1. Risk-based capital. Each FHLBank must maintain at all times permanent capital, defined as the amounts paid-in for Class B stock and retained earnings, in an amount at least equal to the sum of its credit risk, market risk, and operational risk capital requirements, all of which are calculated in accordance with the rules and regulations of the FHFA.
- 2. Regulatory capital. Each FHLBank must maintain at all times a total capital-to-assets ratio of at least four percent. Regulatory capital is the sum of permanent capital, the amounts paid-in for Class A stock, any general loss allowance, if consistent with GAAP and not established for specific assets, and other amounts from sources determined by the FHFA as available to absorb losses.
- 3. Leverage capital. Each FHLBank must maintain at all times a leverage capital-to-assets ratio of at least five percent. Leverage capital is defined as the sum of permanent capital weighted 1.5 times and all other components of total capital.

The FHFA may require an FHLBank to maintain greater minimum capital levels than are required based on FHFA rules and regulation. At March 31, 2023, each FHLBank was in compliance with FHFA regulatory capital requirements.

Table 9.1 presents the risk-based capital requirements at March 31, 2023.

Table 9.1 - Risk-Based Capital Requirements at March 31, 2023

(dollars in millions)

	 Risk-Based Capital					
FHLBank	linimum quirement		Actual			
Boston	\$ 547	\$	4,131			
New York	902		9,055			
Pittsburgh	617		5,879			
Atlanta	1,120		10,081			
Cincinnati	1,193		8,076			
Indianapolis	589		4,017			
Chicago	2,005		8,451			
Des Moines	1,102		9,319			
Dallas	1,589		8,364			
Topeka	518		3,655			
San Francisco	1,095		8,228			
Combined(1)	11,277		79,255			

⁽¹⁾ Based on FHFA rules and regulations, risk-based capital requirements apply to individual FHLBanks, and there are no minimum risk-based capital requirements at a combined level. The combined risk-based capital amounts are for analysis only and are calculated based on the sum of the individual FHLBanks' risk-based capital amounts. The sum of the individual FHLBank risk-based capital amounts may not agree to the combined amount due to combining adjustments.

Table 9.2 presents the regulatory capital requirements at March 31, 2023.

Table 9.2 - Regulatory Capital Requirements at March 31, 2023

(dollars in millions)

	Regulatory Capi	tal Ratio	Regulatory Capital			
FHLBank	Minimum Requirement	Actual	Minimum Requirement	Actual		
Boston	4.00 %	5.15 %	\$ 3,207	\$ 4,13	.31	
New York	4.00 %	4.87 %	7,437	9,0	55	
Pittsburgh	4.00 %	4.98 %	4,720	5,8	79	
Atlanta	4.00 %	4.50 %	8,958	10,08	81	
Cincinnati	4.00 %	4.91 %	6,573	8,0	76	
Indianapolis	4.00 %	5.53 %	2,908	4,03	17	
Chicago	4.00 %	6.21 %	5,442	8,45	51	
Des Moines	4.00 %	5.00 %	7,457	9,3:	19	
Dallas	4.00 %	4.62 %	7,247	8,30	64	
Topeka	4.00 %	5.28 %	2,994	3,94	48	
San Francisco	4.00 %	5.77 %	5,700	8,22	28	
Combined(1)		5.09 %	62,643	79,54	48	

⁽¹⁾ Based on FHFA rules and regulations, regulatory capital requirements apply to individual FHLBanks, and there are no minimum regulatory capital requirements at a combined level. The combined regulatory capital ratio and amounts are for analysis only. The combined regulatory capital ratio is calculated based on the combined regulatory capital as a percentage of combined total assets, and the combined regulatory capital amounts are calculated based on the sum of the individual FHLBanks' regulatory capital amounts. The sum of the individual FHLBank regulatory capital amounts may not agree to the combined amount due to combining adjustments.

Table 9.3 presents the leverage capital requirements at March 31, 2023.

Table 9.3 - Leverage Capital Requirements at March 31, 2023

(dollars in millions)

	Leverage Capit	Leverage Capital			
FHLBank	Minimum Requirement	Actual	Minimum Requirement	Actual	
Boston	5.00 %	7.73 %	\$ 4,008	\$ 6,197	
New York	5.00 %	7.30 %	9,297	13,582	
Pittsburgh	5.00 %	7.47 %	5,900	8,819	
Atlanta	5.00 %	6.75 %	11,197	15,121	
Cincinnati	5.00 %	7.37 %	8,217	12,115	
Indianapolis	5.00 %	8.29 %	3,634	6,025	
Chicago	5.00 %	9.32 %	6,803	12,676	
Des Moines	5.00 %	7.50 %	9,321	13,979	
Dallas	5.00 %	6.92 %	9,059	12,546	
Topeka	5.00 %	7.72 %	3,742	5,776	
San Francisco	5.00 %	8.66 %	7,125	12,342	
Combined(1)		7.62 %	78,303	119,177	

⁽¹⁾ Based on FHFA rules and regulations, leverage capital requirements apply to individual FHLBanks, and there are no minimum leverage capital requirements at a combined level. The combined leverage capital ratio and amounts are for analysis only. The combined leverage capital ratio is calculated based on the combined leverage capital as a percentage of combined total assets, and the combined leverage capital amounts are calculated based on the sum of the individual FHLBanks' leverage capital amounts. The sum of the individual FHLBank leverage capital amounts may not agree to the combined amount due to combining adjustments.

Capital Stock

Each FHLBank is a cooperative whose member financial institutions own most of the FHLBank's capital stock. Former members (including certain non-members that own FHLBank capital stock as a result of merger or acquisition, relocation, charter termination, voluntary termination, or involuntary termination of an FHLBank member) own the remaining capital stock to support business transactions still carried on an FHLBank's statement of condition. Shares of capital stock cannot be purchased or sold except between an FHLBank and its members at its \$100 per share par value, as mandated by each FHLBank's capital plan. Members can redeem Class A stock by giving six-months' written notice, and members can redeem Class B stock by giving five-years' written notice, subject to certain restrictions. An FHLBank's board of directors may declare and pay dividends in either cash or capital stock, assuming the FHLBank is in compliance with FHFA rules.

Restricted Retained Earnings

The Joint Capital Enhancement Agreement, as amended (Capital Agreement), is intended to enhance the capital position of each FHLBank. The Capital Agreement provides that each FHLBank will, on a quarterly basis, allocate 20% of its net income to a separate restricted retained earnings account until the balance of that account, calculated as of the last day of each calendar quarter, equals at least one percent of that FHLBank's average balance of outstanding consolidated obligations for the calendar quarter. These restricted retained earnings are not available to pay dividends. Additionally, the Capital Agreement provides that amounts in restricted retained earnings in excess of 150% of an FHLBank's restricted retained earnings minimum (i.e., one percent of that FHLBank's average balance of outstanding consolidated obligations calculated as of the last day of each calendar quarter) may be released from restricted retained earnings. As of March 31, 2023, none of the FHLBanks had restricted retained earnings that exceeded one percent of its average balance of outstanding consolidated obligations.

Mandatorily Redeemable Capital Stock

An FHLBank generally reclassifies capital stock subject to redemption from capital to the mandatorily redeemable capital stock liability upon expiration of a grace period, if applicable, after a member exercises a written redemption right, or gives notice of intent to withdraw from membership, or attains non-member status by merger or acquisition, relocation, charter termination, or involuntary termination from membership. Shares of capital stock meeting these definitions are reclassified to mandatorily redeemable capital stock at fair value. Dividends related to capital stock classified as mandatorily redeemable capital stock are accrued at the expected dividend rate and reported as interest expense on the Combined Statement of Income. For the three months ended March 31, 2023 and 2022, dividends on mandatorily redeemable capital stock of \$11 million and \$5 million were recorded as interest expense.

A member may cancel or revoke its written notice of redemption or its notice of withdrawal from membership prior to the end of the applicable redemption period. Each FHLBank's capital plan provides the terms for cancellation fees that may be incurred by the member upon cancellation.

Table 9.4 presents a rollforward of capital stock subject to mandatory redemption for the three months ended March 31, 2023 and 2022. Payment is contingent on, among other things, each FHLBank's waiting period and the FHLBank's ability to meet its minimum regulatory capital requirements. These amounts have been classified as a liability on the Combined Statement of Condition.

Table 9.4 - Rollforward of Mandatorily Redeemable Capital Stock

(dollars in millions)

	Three Months E	nded N	1arch 31,
	2023		2022
Balance, beginning of year	\$ 708	\$	398
Capital stock subject to mandatory redemption reclassified from capital	418		1,706
Redemption/repurchase of mandatorily redeemable capital stock	 (328)		(1,144)
Balance, end of year	\$ 798	\$	960

Table 9.5 presents the amount of mandatorily redeemable capital stock by contractual year of redemption at March 31, 2023 and December 31, 2022. The year of redemption in the table is the end of the appropriate redemption period applicable to each FHLBank's capital plan. An FHLBank is not required to redeem membership stock until either five years or six months, depending on the type of capital stock issuable under its capital plan, after the membership is terminated or the FHLBank receives notice of withdrawal. However, for certain membership terminations such as mergers, consolidations, terminations related to insolvency, or out-of-district relocations, the FHLBank may recalculate the former member's stock requirement following that termination and the stock may be deemed excess stock subject to repurchase at the FHLBank's discretion. An FHLBank is not required to redeem activity-based stock until the later of the expiration of the notice of redemption or until the activity to which the capital stock relates no longer remains outstanding. If activity-based stock becomes excess stock as a result of an activity no longer remaining outstanding, an FHLBank may repurchase those shares, at its sole discretion, subject to the statutory and regulatory restrictions on excess capital stock redemption.

Table 9.5 - Mandatorily Redeemable Capital Stock by Contractual Year of Redemption (dollars in millions)

	Marcl	March 31, 2023		er 31, 2022
Year 1	\$	39	\$	38
Year 2		10		11
Year 3		271		20
Year 4		17		264
Year 5		439		353
Past contractual redemption date due to remaining activity(1)		22		22
Total	\$	798	\$	708

⁽¹⁾ Represents mandatorily redeemable capital stock that is past the end of the contractual redemption period because there is activity outstanding to which the mandatorily redeemable capital stock relates.

Excess Capital Stock

The FHLBanks define excess capital stock as the amount of stock held by a member (or former member) in excess of that institution's minimum stock ownership requirement. FHFA rules limit the ability of an FHLBank to create member excess capital stock under certain circumstances. An FHLBank may not pay dividends in the form of capital stock or issue new excess capital stock to members if that FHLBank's excess capital stock exceeds one percent of its total assets or if the issuance of excess capital stock would cause that FHLBank's excess capital stock to exceed one percent of its total assets. At March 31, 2023, the FHLBank of Indianapolis had excess capital stock outstanding totaling more than one percent of its total assets.

Capital Classification Determination

The FHFA determines each FHLBank's capital classification on at least a quarterly basis. If an FHLBank is determined to be other than adequately capitalized, that FHLBank becomes subject to additional supervisory authority by the FHFA. Before implementing a reclassification, the Director of the FHFA is required to provide that FHLBank with written notice of the proposed action and an opportunity to submit a response. Each FHLBank was classified by the FHFA as adequately capitalized as of the date of the FHFA's most recent notification to each FHLBank.

Note 10 - Accumulated Other Comprehensive Income (Loss)

Table 10.1 presents a summary of changes in accumulated other comprehensive income (loss) for the three months ended March 31, 2023 and 2022.

Table 10.1 - Accumulated Other Comprehensive Income (Loss)

(dollars in millions)

	Gains AFS	Unrealized (Losses) on Securities Note 3)	P Ga	Net Non-Credit Portion of OTTI ains (Losses) on HTM Securities (Note 3)	Net Unrealized Gains (Losses) lating to Hedging Activities (Note 6)	Pension and Postretirement Benefits	otal Accumulated Other Comprehensive Income (Loss)
Balance, December 31, 2022	\$	(1,027)	\$	(4)	\$ 325	\$ (47)	\$ (753)
Other comprehensive income before reclassifications							
Unrealized gains (losses)		(373)		_	(59)	_	(432)
Accretion of non-credit loss		_		_	_	_	_
Reclassifications from accumulated other comprehensive income (loss) to net income							
Amortization on hedging activities		_		_	(13)	_	(13)
Pension and postretirement benefits		<u> </u>			<u> </u>	23	23
Net current period other comprehensive income (loss)		(373)		_	(72)	23	(422)
Balance, March 31, 2023	\$	(1,400)	\$	(4)	\$ 253	\$ (24)	\$ (1,175)
Balance, December 31, 2021	\$	1,608	\$	(6)	\$ (193)	\$ (112)	\$ 1,297
Other comprehensive income before reclassifications							
Unrealized gains (losses)		(1,091)		_	220	_	(871)
Accretion of non-credit loss		_		1	_	_	1
Reclassifications from accumulated other comprehensive income (loss) to net income							
Amortization on hedging activities		_		_	11	_	11
Pension and postretirement benefits				<u> </u>	<u> </u>	 (3)	(3)
Net current period other comprehensive income (loss)		(1,091)		1	231	(3)	(862)
Balance, March 31, 2022	\$	517	\$	(5)	\$ 38	\$ (115)	\$ 435

Note 11 - Fair Value

The fair value amounts recorded on the Combined Statement of Condition and presented in the note disclosures for the periods presented have been determined by the FHLBanks using available market and other pertinent information and reflect each FHLBank's best judgment of appropriate valuation methods. GAAP 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 (i.e., an exit price). Although each FHLBank uses its best judgment in estimating the fair value of its financial instruments, there are inherent limitations in any valuation technique. Therefore, the fair values may not be indicative of the amounts that would have been realized in market transactions at March 31, 2023 and December 31, 2022. Additionally, these values do not represent an estimate of the overall market value of the FHLBanks as going concerns, which would take into account future business opportunities and the net profitability of assets and liabilities.

Fair Value Hierarchy

GAAP establishes a fair value hierarchy and requires an entity to maximize the use of significant observable inputs and minimize the use of significant unobservable inputs when measuring fair value. The inputs are evaluated and an overall level for the fair value measurement is determined. This overall level is an indication of market observability of the fair value measurement for the asset or liability. An entity must disclose the level within the fair value hierarchy in which the measurements are classified.

The fair value hierarchy prioritizes the inputs used to measure fair value into three broad levels:

- Level 1 Inputs. Quoted prices (unadjusted) for identical assets or liabilities in an active market that the reporting entity can access on the measurement date. An active market for the asset or liability is a market in which the transactions for the asset or liability occur with sufficient frequency and volume to provide pricing information on an ongoing basis.
- Level 2 Inputs. Inputs other than quoted prices within Level 1, that are observable inputs for the asset or liability, either directly or indirectly. If the asset or liability has a specified or contractual term, a Level 2 input must be observable for substantially the full term of the asset or liability. Level 2 inputs include the following: (1) quoted prices for similar assets or liabilities in active markets; (2) quoted prices for identical or similar assets or liabilities in markets that are not active; (3) inputs other than quoted prices that are observable for the asset or liability (e.g., interest rates and yield curves that are observable at commonly quoted intervals, and implied volatilities); and (4) inputs that are derived principally from or corroborated by observable market data by correlation or other means.
- Level 3 Inputs. Unobservable inputs for the asset or liability. Valuations are derived from techniques that
 use significant assumptions not observable in the market, which include pricing models, discounted cash
 flow models, or similar techniques.

Each FHLBank reviews its fair value hierarchy classifications on a quarterly basis. Changes in the observability of the valuation inputs may result in a reclassification of certain assets or liabilities. The FHLBanks had no transfers of assets or liabilities into or out of Level 3 of the fair value hierarchy during the three months ended March 31, 2023 and 2022.

Table 11.1 presents the carrying value, fair value, and fair value hierarchy of financial assets and liabilities of the FHLBanks at March 31, 2023 and December 31, 2022. The FHLBanks record trading securities, AFS securities, derivative assets, derivative liabilities, certain advances, certain consolidated obligations, and certain other assets at fair value on a recurring basis, and on occasion certain mortgage loans held for portfolio and certain other assets at fair value on a non-recurring basis. The FHLBanks record all other financial assets and liabilities at amortized cost. Refer to Table 11.2 for further details about the financial assets and liabilities held at fair value on either a recurring or non-recurring basis.

Table 11.1 - Fair Value Summary

(dollars in millions)

		March 31, 2023									
				Fair Value							
Financial Instruments	uments Carrying Value(1)		Level 1	Level 2	Level 3	Netting Adjustment and Cash Collateral(2)					
Assets											
Cash and due from banks	\$ 3,932	\$ 3,932	\$ 3,932	\$ -	\$ -	\$ -					
Interest-bearing deposits	25,063	25,063	10,877	14,186	_	_					
Securities purchased under agreements to resell	124,460	124,460	_	124,460	_	_					
Federal funds sold	86,856	86,856	_	86,856	_	_					
Trading securities	12,417	12,417	5,683	6,734	_	_					
Available-for-sale securities	140,135	140,135	_	137,704	2,431	_					
Held-to-maturity securities	61,323	60,179	_	59,676	503	_					
Advances(3)	1,044,614	1,043,065	_	1,043,065	_	_					
Mortgage loans held for portfolio	56,228	50,245	_	50,161	84	_					
Mortgage loans held for sale(4)	13	13	_	13	_	_					
Accrued interest receivable	4,081	4,081	_	4,081	_	_					
Derivative assets, net	3,639	3,639	_	5,465	_	(1,826)					
Other assets	363	360	262	98	_	_					
Liabilities											
Deposits	15,129	15,129	_	15,129	_	_					
Consolidated obligations											
Discount notes(5)	515,041	514,869	_	514,869	_	_					
Bonds(6)	944,074	935,190	<u> </u>	935,190							
Total consolidated obligations	1,459,115	1,450,059	_	1,450,059	_	_					
Mandatorily redeemable capital stock	798	798	798	_	_	_					
Accrued interest payable	4,646	4,646	_	4,646	_	_					
Derivative liabilities, net	307	307	_	16,209	_	(15,902)					
Other liabilities	35	32	_	32	_	_					

		December 31, 2022									
				Fair Value							
Financial Instruments	Carrying Value(1)	Total	Level 1	Level 2	Level 3	Netting Adjustment and Cash Collateral(2)					
Assets											
Cash and due from banks	\$ 417	\$ 417	\$ 417	\$ -	\$ -	\$ -					
Interest-bearing deposits	22,937	22,937	11,054	11,883	_	_					
Securities purchased under agreements to resell	71,405	71,405	_	71,405	_	_					
Federal funds sold	65,920	65,920	_	65,920	_	_					
Trading securities	15,865	15,865	7,113	8,752	_	_					
Available-for-sale securities	129,869	129,869	_	127,403	2,466	_					
Held-to-maturity securities	57,816	56,341	_	55,823	518	_					
Advances(3)	819,121	817,235	_	817,235	_	_					
Mortgage loans held for portfolio	56,048	49,180	_	49,085	95	_					
Mortgage loans held for sale(4)	59	59	_	59	_	_					
Accrued interest receivable	3,327	3,327	_	3,327	_	_					
Derivative assets, net	3,020	3,020	_	6,284	_	(3,264)					
Other assets	357	354	258	96	_	_					
Liabilities											
Deposits	10,365	10,365	_	10,365	_	_					
Consolidated obligations											
Discount notes(5)	466,049	465,810	_	465,810	_	_					
Bonds(6)	695,381	685,133		685,133							
Total consolidated obligations	1,161,430	1,150,943	_	1,150,943	_	_					
Mandatorily redeemable capital stock	708	708	708	_	_	_					
Accrued interest payable	3,229	3,229	_	3,229	_	_					
Derivative liabilities, net	124	124	_	18,185	_	(18,061)					
Other liabilities	35	32	_	32	_	_					

⁽¹⁾ For certain financial instruments, the amounts represent net carrying value, which includes an allowance for credit losses.

Summary of Valuation Methodologies and Primary Inputs

A description of the valuation methodologies and primary inputs is disclosed in Note 14 - Fair Value, pages F-67 to F-70, of the audited combined financial statements included in the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022. There were no significant changes in these valuation methodologies and primary inputs during the three months ended March 31, 2023.

Fair Value Measurements

Table 11.2 presents the fair value of assets and liabilities that are recorded on a recurring or non-recurring basis at March 31, 2023 and December 31, 2022, by level within the fair value hierarchy. The FHLBanks measure certain mortgage loans at fair value on a non-recurring basis due to the recognition of a credit loss. Real estate owned is measured using fair value when the asset's fair value less costs to sell is lower than its carrying amount.

⁽²⁾ Amounts represent the application of the netting requirements that allow an FHLBank to settle positive and negative positions, and also cash collateral and related accrued interest held or placed by that FHLBank with the same clearing agent and/or counterparty.

⁽³⁾ Includes \$3,048 million and \$2,725 million of advances recorded under fair value option at March 31, 2023 and December 31, 2022

⁽⁴⁾ Represents mortgage loans held for sale recorded under fair value option, included in other assets, net on the Combined Statement of Condition.

⁽⁵⁾ Includes \$77,004 million and \$65,795 million of consolidated discount notes recorded under fair value option at March 31, 2023 and December 31, 2022.

⁽⁶⁾ Includes \$12,600 million and \$12,573 million of consolidated bonds recorded under fair value option at March 31, 2023 and December 31, 2022.

Table 11.2 - Fair Value Measurements

(dollars in millions)

			N	March 31, 2023		
	Total	Level 1		Level 2	Level 3	ting Adjustment and Cash Collateral(1)
Recurring fair value measurements - Assets						
Trading securities						
U.S. Treasury obligations	\$ 9,443	\$ 5,683	\$	3,760	\$ _	\$ _
Other U.S. obligations	74	_		74	_	_
GSE and Tennessee Valley Authority obligations	2,063	_		2,063	_	_
Other non-MBS	150	_		150	_	-
U.S. obligations single-family MBS	1	-		1	-	-
GSE single-family MBS	16	_		16	_	-
GSE multifamily MBS	670	_		670	_	_
Total trading securities	12,417	5,683		6,734	_	_
Available-for-sale securities						
U.S. Treasury obligations	33,472	_		33,472	_	_
Other U.S. obligations	1,935	-		1,935	-	-
GSE and Tennessee Valley Authority obligations	7,202	_		7,202	_	_
State or local housing agency obligations	1,773	_		631	1,142	_
Federal Family Education Loan Program ABS	2,137	_		2,137	_	_
Other non-MBS	597	-		597	-	-
U.S. obligations single-family MBS	4,665	_		4,665	_	_
U.S. obligations multifamily MBS	479	-		479	-	-
GSE single-family MBS	5,014	_		5,014	_	_
GSE multifamily MBS	81,572	_		81,572	_	_
Private-label MBS	1,289	_		_	1,289	_
Total available-for-sale securities	140,135	_		137,704	2,431	_
Advances(2)	3,048	_		3,048	_	_
Mortgage loans held for sale(2)	13	_		13	_	-
Derivative assets, net				_		
Interest-rate related	3,635	-		5,461	_	(1,826)
Mortgage delivery commitments	4	_		4	_	_
Total derivative assets, net	3,639	_		5,465	_	(1,826)
Other assets	328	262		66	_	_
Total recurring assets at fair value	\$ 159,580	\$ 5,945	\$	153,030	\$ 2,431	\$ (1,826)
Recurring fair value measurements - Liabilities						
Consolidated Obligations						
Discount notes(2)	\$ 77,004	\$ _	\$	77,004	\$ _	\$ _
Bonds(2)	12,600	_		12,600	_	_
Total consolidated obligations	89,604	_		89,604	_	_
Derivative liabilities, net						
Interest-rate related	306	_		16,208	_	(15,902)
Mortgage delivery commitments	1	_		1	_	_
Total derivative liabilities, net	307	_		16,209	_	(15,902)
Total recurring liabilities at fair value	\$ 89,911	\$ _	\$	105,813	\$ _	\$ (15,902)
Non-recurring fair value measurements - Assets(3)						
Mortgage loans held for portfolio	\$ 23	\$ _	\$	-	\$ 23	
Real estate owned	1	_		_	 1	
Total non-recurring assets at fair value	\$ 24	\$ 	\$	_	\$ 24	

			De	ecember 31, 2022		
	Total	Level 1		Level 2	Level 3	ting Adjustment and Cash Collateral(1)
Recurring fair value measurements - Assets						
Trading securities						
U.S. Treasury obligations	\$ 12,920	\$ 7,113	\$	5,807	\$ _	\$ _
Other U.S. obligations	76	_		76	_	_
GSE and Tennessee Valley Authority obligations	2,035	-		2,035	_	-
Other non-MBS	148	_		148	_	_
U.S. obligations single-family MBS	1	_		1	_	_
GSE single-family MBS	17	_		17	_	_
GSE multifamily MBS	 668	 _		668	_	 _
Total trading securities	15,865	7,113		8,752	_	_
Available-for-sale securities						
U.S. Treasury obligations	33,419	_		33,419	_	_
Other U.S. obligations	2,053	_		2,053	_	_
GSE and Tennessee Valley Authority obligations	7,174	_		7,174	_	_
State or local housing agency obligations	1,768	_		627	1,141	_
Federal Family Education Loan Program ABS	2,304	_		2,304	_	_
Other non-MBS	591	-		591	_	_
U.S. obligations single-family MBS	4,338	_		4,338	_	_
U.S. obligations multifamily MBS	476	-		476	_	_
GSE single-family MBS	4,092	_		4,092	_	_
GSE multifamily MBS	72,329	_		72,329	_	_
Private-label MBS	 1,325	 _		<u> </u>	1,325	 _
Total available-for-sale securities	129,869	_		127,403	2,466	_
Advances(2)	2,725	_		2,725	_	
Mortgage loans held for sale(2)	59	_		59	_	_
Derivative assets, net				_		
Interest-rate related	3,019	_		6,283	_	(3,264)
Mortgage delivery commitments	 1	 _		1		 _
Total derivative assets, net	3,020	_		6,284	_	(3,264)
Other assets	 322	 258		64		 _
Total recurring assets at fair value	\$ 151,860	\$ 7,371	\$	145,287	\$ 2,466	\$ (3,264)
Recurring fair value measurements - Liabilities						
Consolidated Obligations						
Discount notes(2)	\$ 65,795	\$ _	\$	65,795	\$ _	\$ _
Bonds(2)	 12,573	 _		12,573		
Total consolidated obligations	78,368	_		78,368		_
Derivative liabilities, net						
Interest-rate related	123	_		18,184	_	(18,061)
Mortgage delivery commitments	1	_		1		_
Total derivative liabilities, net	124	_		18,185		(18,061)
Total recurring liabilities at fair value	\$ 78,492	\$ 	\$	96,553	\$ 	\$ (18,061)
Non-recurring fair value measurements - Assets(3)						
Mortgage loans held for portfolio	\$ 34	\$ _	\$	_	\$ 34	
Real estate owned	 1				1	
Total non-recurring assets at fair value	\$ 35	\$ _	\$		\$ 35	

⁽¹⁾ Amounts represent the application of the netting requirements that allow an FHLBank to settle positive and negative positions, and also cash collateral and related accrued interest held or placed by that FHLBank with the same clearing agent and/or counterparty.

⁽²⁾ Represents financial instruments recorded under fair value option at March 31, 2023 and December 31, 2022.

⁽³⁾ The fair value information presented is as of the date the fair value adjustment was recorded during the period.

Level 3 Disclosures for All Assets and Liabilities that are Measured at Fair Value on a Recurring Basis

Table 11.3 presents a rollforward of assets and liabilities measured at fair value on a recurring basis and classified as Level 3 during the three months ended March 31, 2023 and 2022.

Table 11.3 - Rollforward of Level 3 Assets and Liabilities

(dollars in millions)

	Three Months Ended March 31,											
		20	23			20	22					
	Housi	and Local ng Agency igations	Private-	Label MBS	_	State and Local Housing Agency Obligations	Pri	ivate-Label MBS				
Balance, at beginning of period	\$	1,141	\$	1,325	\$	1,061	\$	1,804				
Total gains (losses) included in earnings												
Interest income		_		13		_		16				
(Provision) reversal for credit losses on available-for-sale securities		_		_		_		2				
Other income (loss)		_		_		_		28				
Total gains (losses) included in other comprehensive income												
Net unrealized gains (losses) on available-for-sale securities		1		(13)		(2)		(39)				
Purchases, issuances, sales, and settlements												
Settlements		_		(36)		_		(188)				
Transfers from held-to-maturity securities to available-for-sale securities		_		_		_		16				
Balance, at end of period	\$	1,142	\$	1,289	\$	1,059	\$	1,639				
Total amount of unrealized gains (losses) for the period included in OCI relating to assets held at the end of the period	\$	1	\$	(13)	\$	(1)	\$	(38)				
Total amount of gains (losses) for the period included in earnings attributable to the change in unrealized gains/losses relating to assets held at the end of period	\$		\$	13	\$		\$	18				

Fair Value Option

The fair value option provides an irrevocable option to elect fair value as an alternative measurement for selected financial assets, financial liabilities, unrecognized firm commitments, and written loan commitments not previously carried at fair value. It requires entities to display the fair value of those assets and liabilities for which the entity has chosen to use fair value on the face of the statement of condition. Fair value is used for both the initial and subsequent measurement of the designated assets, liabilities and commitments, with the changes in fair value recognized in net income. Interest income and interest expense on advances and consolidated obligations at fair value are recognized solely on the contractual amount of interest due or unpaid. Any transaction fees or costs are immediately recognized into non-interest income or non-interest expense.

The FHLBanks of New York, Cincinnati, Chicago, Des Moines, and San Francisco (Electing FHLBanks) have each elected the fair value option for certain financial instruments when a hedge relationship does not qualify for hedge accounting or may be at risk for not meeting hedge effectiveness requirements. These fair value elections were made primarily in an effort to mitigate the potential income statement volatility that can arise when an economic derivative is adjusted for changes in fair value, but the related hedged item is not.

Table 11.4 presents net gains (losses) recognized in earnings related to financial assets and liabilities for which the fair value option was elected during the three months ended March 31, 2023 and 2022.

Table 11.4 - Fair Value Option - Financial Assets and Liabilities

(dollars in millions)

	Three Months E	nded Ma	rch 31,
Net Gains (Losses) from Changes in Fair Value Recognized in Earnings	2023		2022
Advances	\$ 25	\$	(89)
Mortgage loans held for sale(1)	_		(3)
Consolidated discount notes	(91)		31
Consolidated bonds	 (82)		133
Total net gains (losses)	\$ (148)	\$	72

⁽¹⁾ Included in other assets, net on the Combined Statement of Condition.

For instruments for which the fair value option has been elected, the related contractual interest income, contractual interest expense, and the discount amortization on fair value option discount notes are recorded as part of net interest income on the Combined Statement of Income. The remaining changes in fair value for instruments for which the fair value option has been elected are recorded as net gains (losses) on financial instruments held under fair value option on the Combined Statement of Income, except for changes in fair value related to instrument specific credit risk, which are recorded in AOCI on the Combined Statement of Condition. Each of the Electing FHLBanks determined that none of the remaining changes in fair value were related to instrument specific credit risk during the three months ended March 31, 2023 and 2022. In determining that there has been no change in instrument specific credit risk period to period, the Electing FHLBanks primarily considered the following factors:

- The FHLBanks are federally chartered GSEs, and as a result of this status, the FHLBanks' consolidated
 obligations have historically received the same credit ratings as the government bond credit rating of the
 United States, even though they are not obligations of the United States and are not guaranteed by the
 United States.
- Each FHLBank is jointly and severally liable with the other FHLBanks for the payment of principal and interest on all consolidated obligations of each of the FHLBanks.

Table 11.5 presents the difference between the aggregate fair value and the aggregate unpaid principal balance outstanding for advances, mortgage loans held for sale, and consolidated obligations for which the fair value option has been elected at March 31, 2023 and December 31, 2022.

Table 11.5 - Aggregate Fair Value and Aggregate Unpaid Principal Balance

(dollars in millions)

			M	/larch 31, 2023			December 31, 2022							
	,	Aggregate Fair Value		gregate Unpaid incipal Balance	Valu Agg	ggregate Fair le Over/(Under) gregate Unpaid ncipal Balance		Aggregate Fair Value		ggregate Unpaid rincipal Balance	Val Ag	Aggregate Fair ue Over/(Under) gregate Unpaid incipal Balance		
Advances	\$	3,048	\$	3,086	\$	(38)	\$	2,725	\$	2,791	\$	(66)		
Mortgage loans held for sale(1)		13		13		_		59		61		(2)		
Consolidated discount notes		77,004		77,970		(966)		65,795		66,682		(887)		
Consolidated bonds		12,600		12,837		(237)		12,573		12,906		(333)		

⁽¹⁾ Included in other assets, net on the Combined Statement of Condition.

Note 12 - Commitments and Contingencies

Off-Balance Sheet Commitments

Table 12.1 represents off-balance sheet commitments at March 31, 2023 and December 31, 2022. Each FHLBank has deemed it unnecessary to record any liabilities for credit losses on these commitments at March 31, 2023 and December 31, 2022.

Table 12.1 - Off-Balance Sheet Commitments

(dollars in millions)

			Mar	ch 31, 2023		Dec	ember 31, 2022
Notional amount	Expir	e Within One Year	Expi	re After One Year	Total		Total
Standby letters of credit notional amount(1)	\$	145,111	\$	24,591	\$ 169,702	\$	169,449
Unsettled consolidated bonds, principal amount		8,849		_	8,849		16,505
Commitments for standby bond purchases		701		2,278	2,979		2,989
Unused lines of credit - advances		2,281		_	2,281		2,219
Commitments to fund additional advances		984		33	1,017		1,265
Unsettled consolidated discount notes, principal amount		624		_	624		777
Commitments to purchase mortgage loans		561		_	561		250
Other		1		_	1		2

⁽¹⁾ Excludes unconditional commitments to issue standby letters of credit of \$79 million and \$22 million at March 31, 2023 and December 31, 2022.

Standby Letters of Credit. An FHLBank issues standby letters of credit on behalf of its members to support certain obligations of the members (or member's customers) to third-party beneficiaries. These standby letters of credit are generally subject to the same collateralization and borrowing limits that are applicable to advances. Standby letters of credit may be offered to assist members and non-member housing associates in facilitating residential housing finance, community lending, and asset-liability management, and to provide liquidity. In particular, members often use standby letters of credit as collateral for deposits from federal, state, and local government agencies. Standby letters of credit are executed for members for a fee. If an FHLBank is required to make payment for a beneficiary's draw, the member either reimburses the FHLBank for the amount drawn or, subject to the applicable FHLBank's discretion, the amount drawn may be converted into a collateralized advance to the member. However, standby letters of credit usually expire without being drawn upon. At March 31, 2023, the outstanding standby letters of credits issued by the FHLBanks expire no later than 2047. The carrying value of guarantees related to standby letters of credit is recorded in other liabilities and was \$132 million and \$95 million at March 31, 2023 and December 31, 2022.

Each FHLBank monitors the creditworthiness of its members that have standby letters of credit. In addition, standby letters of credit are subject to the same collateralization and borrowing limits that apply to advances and are fully collateralized at the time of issuance.

Standby Bond-Purchase Agreements. Certain FHLBanks have entered into standby bond-purchase agreements with state housing authorities within their district whereby these FHLBanks agree to provide liquidity for a fee. If required, the affected FHLBanks will purchase and hold the state housing authority's bonds until the designated marketing agent can find a suitable investor or the state housing authority repurchases the bond according to a schedule established by the standby bond-purchase agreement. Each standby bond-purchase agreement dictates the specific terms that would require the affected FHLBank to purchase the bond and typically allows the FHLBank to terminate the agreement upon the occurrence of a default event of the issuer. At March 31, 2023, the outstanding standby bond-purchase commitments entered into by these FHLBanks expire no later than 2027, although some are renewable at the option of the affected FHLBank. At March 31, 2023 and December 31, 2022, the FHLBanks had standby bond-purchase commitments with 11 and 13 state housing authorities. During the three months ended March 31, 2023 and 2022, the FHLBanks were not required to purchase any bonds under these agreements.

Pledged Collateral

Certain FHLBanks pledged securities, as collateral, related to derivatives. (See <u>Note 6 - Derivatives and Hedging Activities</u> for additional information about the FHLBanks' pledged collateral and other credit-risk-related contingent features.)

Legal Proceedings

The FHLBanks are subject to legal proceedings arising in the normal course of business. The FHLBanks would record an accrual for a loss contingency when it is probable that a loss has been incurred and the amount can be reasonably estimated. After consultation with legal counsel, management of each FHLBank does not anticipate that the ultimate liability, if any, arising out of these matters will have a material effect on its FHLBank's financial condition, results of operations, or cash flows.

Note 13 - Subsequent Events

Subsequent events have been evaluated from April 1, 2023, through the time of this Combined Financial Report publication and no significant subsequent events were identified. Significant subsequent events do not include the declaration of dividends or repurchase or redemption of excess capital stock, which generally occur in the normal course of business unless there are regulatory or self-imposed restrictions.

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FEDERAL HOME LOAN BANKS CONDENSED COMBINING SCHEDULES STATEMENTS OF CONDITION (unaudited)

MARCH 31, 2023

(dollars in millions, except par value)	Combined	Combining Adjustments	Boston	New York	Pittsburgh	Atlanta	Cincinnati
Assets							
Cash and due from banks	\$ 3,932	\$ (2)	\$ 7	\$ 22	\$ 21	\$ 2,172	\$ 1,462
Investments, net	450,254	(118)	26,151	56,679	24,511	55,764	46,323
Advances	1,044,614	(1)	49,622	126,251	88,064	164,658	107,627
Mortgage loans held for portfolio, net	56,228	_	2,725	2,094	4,558	116	7,065
Other assets, net	9,142	(1,748)	1,659	891	842	1,234	1,853
Total assets	\$ 1,564,170	\$ (1,869)	\$ 80,164	\$ 185,937	\$ 117,996	\$ 223,944	\$ 164,330
Liabilities							
Deposits	\$ 15,129	\$ (12)	\$ 873	\$ 3,782	\$ 625	\$ 2,362	\$ 1,271
Consolidated obligations							
Discount notes	515,041	(1)	33,448	59,922	30,613	54,052	69,685
Bonds	944,074	(106)	41,670	112,475	79,628	156,588	84,259
Total consolidated obligations	1,459,115	(107)	75,118	172,397	110,241	210,640	153,944
Mandatorily redeemable capital stock	798	1	10	6	29	_	17
Other liabilities	11,553	(1,750)	348	885	1,306	879	1,091
Total liabilities	1,486,595	(1,868)	76,349	177,070	112,201	213,881	156,323
Capital							
Capital stock							
Class B putable (\$100 par value) issued and outstanding	53,070	_	2,405	6,860	4,251	7,752	6,605
Class A putable (\$100 par value) issued and outstanding	292	_	_	_	_	_	_
Total capital stock	53,362	_	2,405	6,860	4,251	7,752	6,605
Retained earnings							
Unrestricted	18,854	(2)	1,305	1,238	1,076	1,652	869
Restricted	6,534	1	411	951	524	676	585
Total retained earnings	25,388	(1)	1,716	2,189	1,600	2,328	1,454
Accumulated other comprehensive income (loss)	(1,175)	_	(306)	(182)	(56)	(17)	(52)
Total capital	77,575	(1)	3,815	8,867	5,795	10,063	8,007
Total liabilities and capital	\$ 1,564,170	\$ (1,869)	\$ 80,164	\$ 185,937	\$ 117,996	\$ 223,944	\$ 164,330

FEDERAL HOME LOAN BANKS CONDENSED COMBINING SCHEDULES STATEMENTS OF CONDITION (unaudited, continued)

MARCH 31, 2023

(dollars in millions, except par value)	Inc	dianapolis	Chicago	Des Moines	Dallas		Topeka		San Francisco	
Assets										
Cash and due from banks	\$	63	\$ 39	\$ 71	\$	35	\$	25	\$	17
Investments, net		27,193	45,512	57,530		51,166		19,831		39,712
Advances		36,950	79,584	119,027		124,834		46,457		101,541
Mortgage loans held for portfolio, net		7,732	10,174	8,473		4,565		7,925		801
Other assets, net		752	745	1,316		576		600		422
Total assets	\$	72,690	\$ 136,054	\$ 186,417	\$	181,176	\$	74,838	\$	142,493
Liabilities										·
Deposits	\$	582	\$ 846	\$ 1,316	\$	1,506	\$	956	\$	1,022
Consolidated obligations										
Discount notes		23,171	50,970	72,642		62,210		20,973		37,356
Bonds		43,707	74,474	100,883		106,947		48,515		95,034
Total consolidated obligations		66,878	125,444	173,525		169,157		69,488		132,390
Mandatorily redeemable capital stock		372	247	14		7		_		95
Other liabilities		1,287	1,559	2,440		2,066		528		914
Total liabilities		69,119	128,096	177,295		172,736		70,972		134,421
Capital										
Capital stock										
Class B putable (\$100 par value) issued and outstanding		2,292	3,545	6,592		6,391		2,370		4,007
Class A putable (\$100 par value) issued and outstanding		_	_	_		_		292		_
Total capital stock		2,292	3,545	6,592		6,391		2,662		4,007
Retained earnings										
Unrestricted		1,011	3,845	1,972		1,601		931		3,356
Restricted		341	814	741		365		355		770
Total retained earnings		1,352	4,659	2,713		1,966		1,286		4,126
Accumulated other comprehensive income (loss)		(73)	(246)	(183)		83		(82)		(61)
Total capital		3,571	7,958	9,122		8,440		3,866		8,072
Total liabilities and capital	\$	72,690	\$ 136,054	\$ 186,417	\$	181,176	\$	74,838	\$	142,493

FEDERAL HOME LOAN BANKS CONDENSED COMBINING SCHEDULES STATEMENTS OF CONDITION

DECEMBER 31, 2022

(dollars in millions, except par value)	Combined	Combining Adjustments	Boston	Pittsburgh	Atlanta	Cincinnati		
Assets								
Cash and due from banks	\$ 417	\$ -	\$ 8	\$ 27	\$ 13	\$ 141	\$ 20	
Investments, net	363,812	(114)	17,919	39,021	22,082	40,902	33,605	
Advances	819,121	_	41,600	115,293	68,856	109,595	67,019	
Mortgage loans held for portfolio, net	56,048	(1)	2,758	2,107	4,591	120	7,163	
Other assets, net	7,849	(4)	613	943	599	864	803	
Total assets	\$ 1,247,247	\$ (119)	\$ 62,898	\$ 157,391	\$ 96,141	\$ 151,622	\$ 108,610	
Liabilities								
Deposits	\$ 10,365	\$ (15)	\$ 656	\$ 1,027	\$ 554	\$ 1,821	\$ 1,040	
Consolidated obligations								
Discount notes	466,049	2	26,975	61,793	33,745	39,781	40,691	
Bonds	695,381	(106)	31,566	85,498	56,471	101,729	59,668	
Total consolidated obligations	1,161,430	(104)	58,541	147,291	90,216	141,510	100,359	
Mandatorily redeemable capital stock	708	_	10	5	28	_	17	
Other liabilities	6,937	2	276	721	446	645	692	
Total liabilities	1,179,440	(117)	59,483	149,044	91,244	143,976	102,108	
Capital								
Capital stock								
Class B putable (\$100 par value) issued and outstanding	43,767	_	2,031	6,387	3,428	5,397	5,151	
Class A putable (\$100 par value) issued and outstanding	239	_	_	_	_	_	_	
Total capital stock	44,006	_	2,031	6,387	3,428	5,397	5,151	
Retained earnings								
Unrestricted	18,322	(1)	1,290	1,185	1,037	1,632	841	
Restricted	6,232	(2)	400	911	499	651	560	
Total retained earnings	24,554	(3)	1,690	2,096	1,536	2,283	1,401	
Accumulated other comprehensive income (loss)	(753)	1	(306)	(136)	(67)	(34)	(50)	
Total capital	67,807	(2)	3,415	8,347	4,897	7,646	6,502	
Total liabilities and capital	\$ 1,247,247	\$ (119)	\$ 62,898	\$ 157,391	\$ 96,141	\$ 151,622	\$ 108,610	

FEDERAL HOME LOAN BANKS CONDENSED COMBINING SCHEDULES STATEMENTS OF CONDITION (continued)

DECEMBER 31, 2022

(dollars in millions, except par value)	Ir	ndianapolis	Chicago	Des Moines	Dallas		Topeka		San Francisco	
Assets										
Cash and due from banks	\$	21	\$ 35	\$ 89	\$	28	\$	26	\$ 9	
Investments, net		27,204	49,647	43,381		40,613		19,261	30,291	
Advances		36,683	66,288	111,202		68,922		44,263	89,400	
Mortgage loans held for portfolio, net		7,687	10,160	8,348		4,395		7,905	815	
Other assets, net		689	723	1,149		391		538	541	
Total assets	\$	72,284	\$ 126,853	\$ 164,169	\$	114,349	\$	71,993	\$ 121,056	
Liabilities										
Deposits	\$	596	\$ 571	\$ 1,076	\$	1,339	\$	711	\$ 989	
Consolidated obligations										
Discount notes		27,387	59,531	69,170		46,270		24,775	35,929	
Bonds		39,882	58,116	84,337		59,946		42,506	75,768	
Total consolidated obligations		67,269	117,647	153,507		106,216		67,281	111,697	
Mandatorily redeemable capital stock		373	248	15		7		_	5	
Other liabilities		662	922	820		786		323	642	
Total liabilities		68,900	119,388	155,418		108,348		68,315	113,333	
Capital										
Capital stock										
Class B putable (\$100 par value) issued and outstanding		2,123	2,989	6,250		3,984		2,269	3,758	
Class A putable (\$100 par value) issued and outstanding		_	_	_		_		239	_	
Total capital stock		2,123	2,989	6,250		3,984		2,508	3,758	
Retained earnings										
Unrestricted		964	3,778	1,915		1,504		915	3,262	
Restricted		323	786	703		330		339	732	
Total retained earnings		1,287	4,564	2,618		1,834		1,254	3,994	
Accumulated other comprehensive income (loss)		(26)	(88)	(117)		183		(84)	(29)	
Total capital		3,384	7,465	8,751		6,001		3,678	7,723	
Total liabilities and capital	\$	72,284	\$ 126,853	\$ 164,169	\$	114,349	\$	71,993	\$ 121,056	

FEDERAL HOME LOAN BANKS CONDENSED COMBINING SCHEDULES STATEMENTS OF INCOME (unaudited)

		1					
(dollars in millions)	Combined	Combining Adjustments	Boston	New York	Pittsburgh	Atlanta	Cincinnati
March 31, 2023							
Interest income							
Advances	\$ 10,808	\$ —	\$ 502	\$ 1,405	\$ 890	\$ 1,507	\$ 897
Investments	4,640	(2)	280	460	313	565	431
Mortgage loans held for portfolio	441	(2)	21	17	36	2	53
Other interest income	_	(1)	_	_	_	_	_
Total interest income	15,889	(5)	803	1,882	1,239	2,074	1,381
Interest expense							
Consolidated obligations - Discount notes	5,304	(2)	337	581	389	516	548
Consolidated obligations - Bonds	8,431	_	378	1,057	685	1,360	641
Other interest expense	135	(1)	6	14	7	24	12
Total interest expense	13,870	(3)	721	1,652	1,081	1,900	1,201
Net interest income	2,019	(2)	82	230	158	174	180
Provision (reversal) for credit losses					1		
Net interest income after provision (reversal) for credit losses	2,019	(2)	82	230	157	174	180
Non-interest income (loss)	68	(5)	4	41	7	(1)	(11)
Non-interest expense	408	(8)	23	50	27	36	28
Affordable Housing Program assessments	169	1	6	22	14	14	14
Net income	\$ 1,510	\$ —	\$ 57	\$ 199	\$ 123	\$ 123	\$ 127
March 31, 2022							
Interest income							
Advances	\$ 634	\$ —	\$ 35	\$ 113	\$ 27	\$ 63	\$ 48
Investments	599	2	47	93	35	32	71
Mortgage loans held for portfolio	382	(1)	22	16	32	2	49
Total interest income	1,615	1	104	222	94	97	168
Interest expense							
Consolidated obligations - Discount notes	87	(1)	1	18	3	7	11
Consolidated obligations - Bonds	549	_	44	82	47	22	75
Other interest expense	7	2					1
Total interest expense	643	1	45	100	50	29	87
Net interest income	972	_	59	122	44	68	81
Provision (reversal) for credit losses		(2)			1		
Net interest income after provision (reversal) for credit losses	972	2	59	122	43	68	81
Non-interest income (loss)	(62)	(10)	1	(13)	_	6	(37)
	() = /	(10)					26
Non-interest expense	352	(8)	29	46	22	34	
Affordable Housing Program		(8)					
•	352 56 \$ 502	(8) 1 \$ (1)	3	46 6 \$ 57	2	4	\$ 16

FEDERAL HOME LOAN BANKS CONDENSED COMBINING SCHEDULES STATEMENTS OF INCOME (unaudited, continued)

(dollars in millions)	Indianapolis		Chicago			Des Moines		Dallas		Topeka		San Francisco
March 31, 2023												
Interest income												
Advances	\$	434	\$	939	\$	1,394	\$	1,140	\$	537	\$	1,163
Investments		327		563		547		430		240		486
Mortgage loans held for portfolio		58		80		69		39		61		7
Other interest income										1		
Total interest income		819		1,582		2,010		1,609		839		1,656
Interest expense												
Consolidated obligations - Discount notes		257		673		735		571		264		435
Consolidated obligations - Bonds		447		672		983		826		462		920
Other interest expense		11		15		10		15		8		14
Total interest expense		715		1,360		1,728		1,412		734		1,369
Net interest income		104		222		282		197		105		287
Provision (reversal) for credit losses		_		_		_		_		_		(1)
Net interest income after provision (reversal) for credit losses		104		222		282		197		105		288
Non-interest income (loss)		30		(4)		(15)		37		11		(26)
Non-interest expense		31		59		55		40		22		45
Affordable Housing Program assessments		11		16		21		19		9		22
Net income	\$	92	\$	143	\$	191	\$	175	\$	85	\$	195
March 31, 2022												
Interest income												
Advances	\$	35	\$	87	\$	111	\$	38	\$	38	\$	39
Investments	Ų	37	Ţ	75	Ţ	48	Ţ	63	Ų	31	Ų	65
Mortgage loans held for portfolio		48		65		53		24		55		17
Total interest income		120	_	227		212		125		124	_	121
		120				212		123		124		121
Interest expense												
Consolidated obligations - Discount notes		4		12		14		10		2		6
Consolidated obligations - Bonds		51		56		99		24		37		12
Other interest expense			_	4								
Total interest expense		55		72		113		34		39		18
Net interest income		65		155		99		91		85		103
Provision (reversal) for credit losses				1		2		1				(3)
Net interest income after provision (reversal) for credit losses		65		154		97		90		85		106
Non-interest income (loss)		(7)		10		_		(21)		(9)		18
Non-interest expense		26		58		37		24		20		38
Affordable Housing Program assessments		3		11		6		4		6		8
Net income	\$	29	\$	95	\$	54	\$	41	\$	50	\$	78
							=		=		=	

FEDERAL HOME LOAN BANKS CONDENSED COMBINING SCHEDULES STATEMENTS OF COMPREHENSIVE INCOME (unaudited)

(dollars in millions)	Combined	Combining Adjustments		Boston	New York	Pittsburgh	Atlanta	Cincinnati	
March 31, 2023									
Net income	\$ 1,510	\$	_	\$ 57	\$ 199	\$ 123	\$ 123	\$	127
Other comprehensive income									
Net unrealized gains (losses) on available-for-sale securities	(373)		(2)	11	(19)	11	17		(2)
Net non-credit portion of other-than-temporary impairment gains (losses) on held-to-maturity securities	-		_	_	_	_	_		_
Net unrealized gains (losses) relating to hedging activities	(72)		1	(11)	(27)	_	_		_
Pension and postretirement benefits	23		_	_	_	_	_		_
Total other comprehensive income (loss)	(422)		(1)	_	(46)	11	17		(2)
Comprehensive income (loss)	\$ 1,088	\$	(1)	\$ 57	\$ 153	\$ 134	\$ 140	\$	125
March 31, 2022									
Net income	\$ 502	\$	(1)	\$ 28	\$ 57	\$ 19	\$ 36	\$	16
Other comprehensive income									
Net unrealized gains (losses) on available-for-sale securities	(1,091)		(3)	(141)	(195)	(79)	(23)		(38)
Net non-credit portion of other-than-temporary impairment gains (losses) on held-to-maturity securities	1		1	_	_	_	_		_
Net unrealized gains (losses) relating to hedging activities	231		_	23	91	_	_		_
Pension and postretirement benefits	(3)			_	1	_	_		1
Total other comprehensive income (loss)	(862)		(2)	(118)	(103)	(79)	(23)		(37)
Comprehensive income (loss)	\$ (360)	\$	(3)	\$ (90)	\$ (46)	\$ (60)	\$ 13	\$	(21)

FEDERAL HOME LOAN BANKS CONDENSED COMBINING SCHEDULES STATEMENTS OF COMPREHENSIVE INCOME (unaudited, continued)

Net income S 92 S 143 S 191 S 175 S 85 S 195	(dollars in millions)	In	dianapolis	Chicago		Des Moines		Dallas		Topeka		San Francisco	
Net unrealized gains (losses) on available-for-sale securities (48) (162) (67) (82) 2 (32)	March 31, 2023												
Net unrealized gains (losses) on available-for-sale securities	Net income	\$	92	\$	143	\$	191	\$	175	\$	85	\$	195
Net non-credit portion of other-than-temporary income (loss) S	Other comprehensive income												
other-than-temporary impairment gains (losses) on held-to-maturity securities -	Net unrealized gains (losses) on available-for-sale securities		(48)		(162)		(67)		(82)		2		(32)
Pension and postretirement benefits	other-than-temporary impairment gains (losses) on		_		_		_		_		_		_
Denefits			_		(17)		_		(18)		_		_
income (loss)			1		21_		1_		<u> </u>		_		_
March 31, 2022 Net income \$ 29 \$ 95 \$ 54 \$ 41 \$ 50 \$ 78 Other comprehensive income Net unrealized gains (losses) on available-for-sale securities			(47)		(158)		(66)		(100)		2		(32)
Net income \$ 29 \$ 95 \$ 54 \$ 41 \$ 50 \$ 78 Other comprehensive income Net unrealized gains (losses) on available-for-sale securities (74) (218) (61) (69) (41) (149) Net non-credit portion of other-than-temporary impairment gains (losses) on held-to-maturity securities —<	Comprehensive income (loss)	\$	45	\$	(15)	\$	125	\$	75	\$	87	\$	163
Net income \$ 29 \$ 95 \$ 54 \$ 41 \$ 50 \$ 78 Other comprehensive income Net unrealized gains (losses) on available-for-sale securities (74) (218) (61) (69) (41) (149) Net non-credit portion of other-than-temporary impairment gains (losses) on held-to-maturity securities —<													
Net unrealized gains (losses) on available-for-sale securities (74) (218) (61) (69) (41) (149) Net non-credit portion of other-than-temporary impairment gains (losses) on held-to-maturity securities — — — — — — — — — — — — — Net unrealized gains (losses) relating to hedging activities — — 56 — 61 — — — — Pension and postretirement benefits — — (3) (2) — — — — — — — — — — — — — — — — — — —	March 31, 2022												
Net unrealized gains (losses) on available-for-sale securities (74) (218) (61) (69) (41) (149) Net non-credit portion of other-than-temporary impairment gains (losses) on held-to-maturity securities — — — — — — — — — — — — Net unrealized gains (losses) relating to hedging activities — — 56 — — 61 — — — — Pension and postretirement benefits — — (3) (2) — — — — — — — — — — — — — — — — — — —	Net income	\$	29	\$	95	\$	54	\$	41	\$	50	\$	78
available-for-sale securities (74) (218) (61) (69) (41) (149) Net non-credit portion of other-than-temporary impairment gains (losses) on held-to-maturity securities — — — — — — — — — — — Net unrealized gains (losses) relating to hedging activities — — 56 — — 61 — — — — — — Pension and postretirement benefits — — (3) (2) — — — — — — — — — — — — — — — — — — —	Other comprehensive income												
other-than-temporary impairment gains (losses) on held-to-maturity securities — — — — — — — — — — — — Net unrealized gains (losses) relating to hedging activities — — 56 — — 61 — — — — Pension and postretirement benefits — — — (3) — (2) — — — — — — — — — — — — — — — — — — —	Net unrealized gains (losses) on available-for-sale securities		(74)		(218)		(61)		(69)		(41)		(149)
relating to hedging activities - 56 - 61 - - Pension and postretirement benefits - (3) (2) - - - - Total other comprehensive income (loss) (74) (165) (63) (8) (41) (149)	other-than-temporary impairment gains (losses) on		_		_		_		_		_		_
benefits — (3) (2) — — — — Total other comprehensive income (loss) (74) (165) (63) (8) (41) (149)			_		56		_		61		_		_
income (loss) (74) (165) (63) (8) (41) (149)	Pension and postretirement benefits		_		(3)		(2)		_		_		_
Comprehensive income (loss) \$ (45) \$ (70) \$ (9) \$ 33 \$ 9 \$ (71)			(74)		(165)		(63)		(8)		(41)		(149)
	Comprehensive income (loss)	\$	(45)	\$	(70)	\$	(9)	\$	33	\$	9	\$	(71)

FEDERAL HOME LOAN BANKS CONDENSED COMBINING SCHEDULES STATEMENTS OF CAPITAL (unaudited)

(dollars in millions)	Combined	Combining Adjustments	Boston	New York	Pittsburgh	Atlanta	Cincinnati
Balance, December 31, 2022	\$ 67,807	\$ (2)	\$ 3,415	\$ 8,347	\$ 4,897	\$ 7,646	\$ 6,502
Comprehensive income (loss)	1,088	(1)	57	153	134	140	125
Proceeds from issuance of capital stock	28,944	(1)	1,681	4,622	2,110	5,603	3,108
Repurchases/redemptions of capital stock	(19,265)	2	(1,307)	(4,148)	(1,281)	(3,246)	(1,653)
Net shares reclassified (to)/ from mandatorily redeemable capital stock	(418)	(1)	_	(1)	(6)	(2)	(1)
Dividends of capital stock	95	_	_	_	_	_	_
Dividends							
Cash	(581)	2	(31)	(106)	(59)	(78)	(74)
Stock	(95)						_
Balance, March 31, 2023	\$ 77,575	\$ (1)	\$ 3,815	\$ 8,867	\$ 5,795	\$ 10,063	\$ 8,007
'		,	_				
Balance, December 31, 2021	\$ 49,122	\$ 1	\$ 2,531	\$ 6,446	\$ 2,734	\$ 4,595	\$ 3,796
Comprehensive income (loss)	(360)	(3)	(90)	(46)	(60)	13	(21)
Proceeds from issuance of capital stock	7,779	_	122	1,117	554	843	1,911
Repurchases/redemptions of capital stock	(5,038)	(2)	(146)	(1,116)	(460)	(547)	_
Net shares reclassified (to)/ from mandatorily redeemable capital stock	(1,706)	1	_	(22)	_	(23)	(1,401)
Dividends of capital stock	24	1	_	_	_	_	_
Dividends							
Cash	(213)	_	(5)	(49)	(12)	(22)	(12)
Stock	(24)	(1)				_	_
Balance, March 31, 2022	\$ 49,584	\$ (3)	\$ 2,412	\$ 6,330	\$ 2,756	\$ 4,859	\$ 4,273

FEDERAL HOME LOAN BANKS CONDENSED COMBINING SCHEDULES STATEMENTS OF CAPITAL (unaudited, continued)

(dollars in millions)	Inc	dianapolis	Chicago	Des Moines	Dallas	Topeka	San Francisco
Balance, December 31, 2022	\$	3,384	\$ 7,465	\$ 8,751	\$ 6,001	\$ 3,678	\$ 7,723
Comprehensive income (loss)		45	(15)	125	75	87	163
Proceeds from issuance of capital stock		169	1,336	3,634	3,454	1,023	2,205
Repurchases/redemptions of capital stock		_	(779)	(3,292)	(1,090)	(710)	(1,761)
Net shares reclassified (to)/ from mandatorily redeemable capital stock		_	(1)	_	_	(211)	(195)
Dividends of capital stock		_	_	_	43	52	_
Dividends							
Cash		(27)	(48)	(96)	_	(1)	(63)
Stock		_	_	_	(43)	(52)	_
Balance, March 31, 2023	\$	3,571	\$ 7,958	\$ 9,122	\$ 8,440	\$ 3,866	\$ 8,072
Balance, December 31, 2021	\$	3,556	\$ 6,752	\$ 5,838	\$ 3,934	\$ 2,715	\$ 6,224
Comprehensive income (loss)		(45)	(70)	(9)	33	9	(71)
Proceeds from issuance of capital stock		37	287	987	407	639	875
Repurchases/redemptions of capital stock		(161)	(248)	(827)	(303)	(421)	(807)
Net shares reclassified (to)/ from mandatorily redeemable capital stock		_	(56)	(1)	(9)	(163)	(32)
Dividends of capital stock		_	_	_	3	20	_
Dividends							
Cash		(13)	(22)	(43)	_	_	(35)
Stock					(3)	(20)	_
Balance, March 31, 2022	\$	3,374	\$ 6,643	\$ 5,945	\$ 4,062	\$ 2,779	\$ 6,154

FEDERAL HOME LOAN BANKS CONDENSED COMBINING SCHEDULES STATEMENTS OF CASH FLOWS (unaudited)

dollars in millions)	Combined	Combining Adjustments	Boston	New York	Pittsburgh	Atlanta	Cincinnati
Operating activities							
Net cash provided by (used in) operating activities	\$ 467	\$ 1	\$ (55)	\$ (150)	\$ 86	\$ 15	\$ (81)
nvesting activities							
Net change/net proceeds and payments in							
Loans to FHLBanks	_	1,750	(1,000)	_	_	_	(750)
Investments	(80,518)	2	(7,863)	(17,053)	(1,603)	(14,614)	(12,341)
Advances	(223,099)	_	(7,954)	(10,510)	(19,106)	(54,831)	(40,449)
Mortgage loans held for portfolio	(201)	_	33	12	31	4	93
Other investing activities	(17)	(1)		(2)	(1)	(2)	(1)
Net cash provided by (used in) investing activities	(303,835)	1,751	(16,784)	(27,553)	(20,679)	(69,443)	(53,448)
inancing activities							
Net change in deposits and pass-through reserves, and other financing activities	4,701	(1)	217	2,759	72	549	228
Net change in loans from HLBanks	_	(1,750)	_		_	_	_
Net proceeds (payments) on derivative contracts with inancing element	(12)	_	(12)	(2)	_	_	_
Net proceeds from issuance of consolidated obligations							
Discount notes	1,555,503	(2)	50,149	110,459	175,125	159,604	108,500
Bonds	431,073	(1)	15,914	48,066	35,215	85,625	53,304
Consolidated obligation bonds ransferred from other HLBanks	-	(1,250)	_	_	_	_	250
Payments for maturing and etiring consolidated bbligations							
Discount notes	(1,507,456)	(3)	(43,725)	(112,374)	(178,291)	(145,383)	(79,687)
Bonds	(185,696)	_	(6,048)	(21,578)	(12,285)	(30,963)	(29,004)
Consolidated obligation bonds ransferred to other FHLBanks	_	1,250	_	_	_	(250)	_
Proceeds from issuance of apital stock	28,944	(1)	1,681	4,622	2,110	5,603	3,108
ayments for repurchases/ edemptions of capital stock	(19,265)	2	(1,307)	(4,148)	(1,281)	(3,246)	(1,653)
Payments for repurchases/ edemptions of mandatorily edeemable capital stock	(328)	_	_	_	(5)	(2)	(1)
Cash dividends paid	(581)	2	(31)	(106)	(59)	(78)	(74)
Net cash provided by (used in) financing activities	306,883	(1,754)	16,838	27,698	20,601	71,459	54,971
Net increase (decrease) in cash and due from banks	3,515	(2)	(1)	(5)	8	2,031	1,442
Cash and due from banks at peginning of the period	417		8	27	13	141	20
Cash and due from banks at end of the period	\$ 3,932	\$ (2)	\$ 7	\$ 22	\$ 21	\$ 2,172	\$ 1,462

FEDERAL HOME LOAN BANKS CONDENSED COMBINING SCHEDULES STATEMENTS OF CASH FLOWS (unaudited, continued)

(dollars in millions)	Indianapolis	Chicago	Des Moines	Dallas	Topeka	San Francisco
Operating activities						
Net cash provided by (used in) operating activities	\$ (95)	\$ 109	\$ 206	\$ 106	\$ 74	\$ 251
Investing activities						
Net change/net proceeds and payments in						
Loans to FHLBanks	-	_	_	_	_	_
Investments	383	4,964	(12,906)	(10,102)	(322)	(9,063)
Advances	(29)	(12,986)	(7,568)	(55,689)	(2,075)	(11,902)
Mortgage loans held for portfolio	(45)	(19)	(128)	(172)	(23)	13
Other investing activities	(1)	(2)	(4)	(1)	(2)	
Net cash provided by (used in) investing activities	308	(8,043)	(20,606)	(65,964)	(2,422)	(20,952)
Financing activities						
Net change in deposits and pass-through reserves, and other financing activities	(40)	275	238	170	224	10
Net change in loans from FHLBanks	500	_	250	1,000	_	_
Net proceeds (payments) on derivative contracts with financing element	2	_	_	(8)	5	3
Net proceeds from issuance of consolidated obligations						
Discount notes	121,636	67,426	423,414	189,434	100,994	48,764
Bonds	7,962	18,519	42,834	53,164	18,963	51,508
Consolidated obligation bonds transferred from other FHLBanks	_	_	_	1,000	_	_
Payments for maturing and retiring consolidated obligations						
Discount notes	(125,876)	(76,006)	(420,212)	(173,652)	(104,863)	(47,384)
Bonds	(4,496)	(2,783)	(26,387)	(7,607)	(12,077)	(32,468)
Consolidated obligation bonds transferred to other FHLBanks	_	_	_	_	(1,000)	_
Proceeds from issuance of capital stock	169	1,336	3,634	3,454	1,023	2,205
Payments for repurchases/ redemptions of capital stock	_	(779)	(3,292)	(1,090)	(710)	(1,761)
Payments for repurchases/ redemptions of mandatorily redeemable capital stock	(1)	(2)	(1)	_	(211)	(105)
Cash dividends paid	(27)	(48)	(96)	_	(1)	(63)
Net cash provided by (used in) financing activities	(171)	7,938	20,382	65,865	2,347	20,709
Net increase (decrease) in cash and due from banks	42	4	(18)	7	(1)	8
Cash and due from banks at beginning of the period	21	35	89	28	26	9
Cash and due from banks at end of the period	\$ 63	\$ 39	\$ 71	\$ 35	\$ 25	\$ 17

FEDERAL HOME LOAN BANKS CONDENSED COMBINING SCHEDULES STATEMENTS OF CASH FLOWS (unaudited)

(dollars in millions)	Combined	Combining Adjustments	Boston	New York	Pittsburgh	Atlanta	Cincinnati
Operating activities							
Net cash provided by (used in) operating activities	\$ 6,879	\$ 5	\$ 721	\$ 896	\$ 456	\$ 604	\$ 659
Investing activities							
Net change/net proceeds and payments in							
Investments	(28,060)	(2)	(1,844)	(5,341)	(544)	(37)	(8,478)
Advances	(27,933)	1	423	(41)	(2,342)	(6,837)	(10,695)
Mortgage loans held for portfolio	(83)	_	118	85	(17)	11	15
Other investing activities	(12)			(1)		(2)	
Net cash provided by (used in) investing activities	(56,088)	(1)	(1,303)	(5,298)	(2,903)	(6,865)	(19,158)
Financing activities							
Net change in deposits and pass-through reserves, and other financing activities	10	(1)	(81)	(134)	(132)	105	95
Net proceeds (payments) on derivative contracts with financing element	160	1	54	(1)	_	(1)	_
Net proceeds from issuance of consolidated obligations							
Discount notes	1,014,310	(1)	36,251	164,818	73,870	165,195	69,620
Bonds	102,134	1	2,091	14,526	3,387	10,768	22,047
Payments for maturing and retiring consolidated obligations							
Discount notes	(983,206)	1	(35,648)	(163,826)	(71,332)	(163,479)	(67,805)
Bonds	(86,695)	(1)	(2,058)	(10,919)	(3,135)	(6,518)	(6,610)
Proceeds from issuance of capital stock	7,779	_	122	1,117	554	843	1,911
Payments for repurchases/ redemptions of capital stock	(5,038)	(2)	(146)	(1,116)	(460)	(547)	_
Payments for repurchases/ redemptions of mandatorily redeemable capital stock	(1,144)	(1)	_	(16)	_	(24)	(893)
Cash dividends paid	(213)	_	(5)	(49)	(12)	(22)	(12)
Net cash provided by (used in) financing activities	48,097	(3)	580	4,400	2,740	6,320	18,353
Net increase (decrease) in cash and due from banks	(1,112)	1	(2)	(2)	293	59	(146)
Cash and due from banks at beginning of the period	3,532	(2)	205	22	428	879	168
Cash and due from banks at end of the period	\$ 2,420	\$ (1)	\$ 203	\$ 20	\$ 721	\$ 938	\$ 22

FEDERAL HOME LOAN BANKS CONDENSED COMBINING SCHEDULES STATEMENTS OF CASH FLOWS (unaudited, continued)

(dollars in millions)	Indianapolis	Chicago	Des Moines	Dallas	Topeka	San Francisco
Operating activities						
Net cash provided by (used in) operating activities	\$ 558	\$ 467	\$ 722	\$ 778	\$ 407	\$ 606
Investing activities						
Net change/net proceeds and payments in						
Investments	(5,653)	(2,748)	(1,512)	(1,055)	(1,228)	382
Advances	534	424	(1,208)	(2,368)	(2,208)	(3,616)
Mortgage loans held for portfolio	(120)	29	(137)	(245)	104	74
Other investing activities	(1)	(4)	(4)	(1)	1	
Net cash provided by (used in) investing activities	(5,240)	(2,299)	(2,861)	(3,669)	(3,331)	(3,160)
Financing activities						
Net change in deposits and pass-through reserves, and other financing activities	(47)	(325)	7	202	(2)	323
Net proceeds (payments) on derivative contracts with financing element	(1)	_	_	119	(7)	(4)
Net proceeds from issuance of consolidated obligations						
Discount notes	111,827	232,034	83,926	12,503	39,888	24,379
Bonds	7,327	5,709	8,734	7,308	12,748	7,488
Payments for maturing and retiring consolidated obligations						
Discount notes	(105,772)	(230,139)	(69,521)	(8,447)	(38,614)	(28,624)
Bonds	(9,153)	(5,475)	(21,336)	(9,336)	(11,141)	(1,013)
Proceeds from issuance of capital stock	37	287	987	407	639	875
Payments for repurchases/ redemptions of capital stock	(161)	(248)	(827)	(303)	(421)	(807)
Payments for repurchases/ redemptions of mandatorily redeemable capital stock	(4)	(3)	(12)	_	(163)	(28)
Cash dividends paid	(13)	(22)	(43)	_	_	(35)
Net cash provided by (used in) financing activities	4,040	1,818	1,915	2,453	2,927	2,554
Net increase (decrease) in cash and due from banks	(642)	(14)	(224)	(438)	3	
Cash and due from banks at beginning of the period	868	45	295	543	26	55
Cash and due from banks at end of the period	\$ 226	\$ 31	\$ 71	\$ 105	\$ 29	\$ 55

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SELECTED FINANCIAL DATA

	2023			2022								
(dollars in millions)		March 31,		December 31,	Se	ptember 30,		June 30,		March 31,		
Selected Statement of Condition Data at												
Investments(1)	\$	450,254	\$	363,812	\$	377,331	\$	362,231	\$	324,240		
Advances		1,044,614		819,121		655,032		518,883		374,570		
Mortgage loans held for portfolio		56,228		56,048		56,012		55,753		55,484		
Total assets		1,564,170		1,247,247		1,094,921		946,710		762,192		
Deposits		15,129		10,365		11,990		13,298		14,107		
Consolidated obligations												
Discount notes		515,041		466,049		449,250		412,400		241,996		
Bonds		944,074		695,381		562,769		457,347		449,166		
Total consolidated obligations		1,459,115		1,161,430		1,012,019		869,747		691,162		
Mandatorily redeemable capital stock		798		708		571		416		960		
Capital												
Total capital stock(2)		53,362		44,006		37,347		32,362		26,124		
Retained earnings		25,388		24,554		23,928		23,373		23,025		
Accumulated other comprehensive income (loss)		(1,175)		(753)		(544)		(152)		435		
Total capital		77,575		67,807		60,731		55,583		49,584		
Selected Statement of Income Data for the quarter ended												
Net interest income	\$	2,019	\$	1,720	\$	1,379	\$	1,078	\$	972		
Provision (reversal) for credit losses		_		8		13		6		_		
Net interest income after provision (reversal) for credit losses		2,019		1,712		1,366		1,072		972		
Non-interest income (loss)		68		(39)		10		(33)		(62)		
Non-interest expense		408		406		356		363		352		
Affordable Housing Program assessments		169		127		103		69		56		
Net income	\$	1,510	\$	1,140	\$	917	\$	607	\$	502		
Selected Other Data for the quarter ended												
Cash and stock dividends	\$	676	\$	514	\$	362	\$	259	\$	237		
Dividend payout ratio(3)		44.77 %		45.09 %		39.48 %		42.67 %		47.21 9		
Return on average equity (annualized)(4)(5)		8.61 %		7.03 %		6.28 %		4.56 %		4.05 9		
Return on average assets (annualized)		0.45 %		0.38 %		0.36 %		0.28 %		0.27		
Average equity to average assets(5)		5.18 %		5.34 %		5.66 %		6.14 %		6.63		
Net interest margin (annualized)(6)		0.60 %		0.57 %		0.54 %		0.50 %		0.53 9		
Selected Other Data at												
GAAP capital-to-asset ratio		4.96 %		5.44 %		5.55 %		5.87 %		6.51		
Regulatory capital-to-assets ratio(7)		5.09 %		5.55 %		5.65 %		5.93 %		6.57 9		

⁽¹⁾ Investments consist of interest-bearing deposits, securities purchased under agreements to resell, federal funds sold, trading securities, available-for-sale securities (AFS), and held-to-maturity securities (HTM).

⁽²⁾ FHLBank capital stock is redeemable at the request of a member subject to the statutory redemption periods and other conditions and limitations. (See <u>Note 9 - Capital</u> to the accompanying combined financial statements for additional information on the statutory redemption periods and other conditions and limitations.)

⁽³⁾ Dividend payout ratio is equal to dividends declared in the period expressed as a percentage of net income in the period. This ratio may not be as relevant to the combined balances because there are no shareholders at the FHLBank System-wide level.

⁽⁴⁾ Return on average equity is equal to net income expressed as a percentage of average total capital.

⁽⁵⁾ Mandatorily redeemable capital stock is not included in the calculations of return on average equity or average equity to average assets.

⁽⁶⁾ Net interest margin is equal to net interest income represented as a percentage of average interest-earning assets.

⁽⁷⁾ The regulatory capital-to-assets ratio is calculated based on the FHLBanks' combined regulatory capital as a percentage of total assets. (See <u>Note 9 - Capital</u> to the accompanying combined financial statements for a definition and discussion of regulatory capital.)

FINANCIAL DISCUSSION AND ANALYSIS OF COMBINED FINANCIAL CONDITION AND COMBINED RESULTS OF OPERATIONS

Investors should read this financial discussion and analysis of combined financial condition and combined results of operations together with the combined financial statements and the accompanying notes in this Combined Financial Report of the Federal Home Loan Banks (FHLBanks). Each FHLBank discusses its financial condition and results of operations in its periodic reports filed with the SEC. The results of operations for interim periods are not necessarily indicative of the results to be expected for the year ending December 31, 2023, or for any future period. The unaudited combined financial statements, included in this Combined Financial Report, should be read in conjunction with the audited combined financial statements for the year ended December 31, 2022, included in the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022.

Each FHLBank's Annual Report on SEC Form 10-K and Quarterly Reports on SEC Form 10-Q contain, as required by applicable SEC rules, a "Management's Discussion and Analysis of Financial Condition and Results of Operations," commonly called MD&A. The SEC notes that one of the principal objectives of MD&A is "to provide a narrative explanation of a company's financial statements that enables investors to see the company through the eyes of management." Because there is no centralized management of the FHLBanks that can provide a system-wide "eyes of management" view of the FHLBanks as a whole, this Combined Financial Report does not contain a conventional MD&A. Instead, a "Financial Discussion and Analysis of Combined Financial Condition and Combined Results of Operations" is prepared by the Office of Finance using information provided by each FHLBank. This Financial Discussion and Analysis does not generally include a separate discussion of how each FHLBank's operations affect the combined financial condition and combined results of operations. That level of information about each FHLBank is addressed in each respective FHLBank's periodic reports filed with the SEC. (See Explanatory Statement about Federal Home Loan Banks Combined Financial Report and Supplemental Information - Individual Federal Home Loan Bank Selected Financial Data and Financial Ratios.)

The combined financial statements include the financial results of the FHLBanks. (See <u>Condensed Combining</u> <u>Schedules</u> to the accompanying combined financial statements for information regarding each FHLBank's results.) Transactions between the FHLBanks have been eliminated in accordance with combination accounting principles similar to consolidation under GAAP.

Unless otherwise stated, dollar amounts disclosed in this Combined Financial Report represent values rounded to the nearest million. Dollar amounts rounding to less than one million are not reflected in this Combined Financial Report.

Forward-Looking Information

Statements contained in this report, including statements describing the objectives, projections, estimates, or predictions of the future of the FHLBanks and the Office of Finance, may be "forward-looking statements." These statements may use forward-looking terminology, such as "anticipates," "believes," "could," "estimates," "expects," "intends," "projects," "plans," "may," "should," "will," "would," "likely," "possible," or their negatives or other variations on these terms. Investors should note that forward-looking statements, by their nature, involve risks or uncertainties, including those set forth in *Risk Factors* on pages 28 to 40 of the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022. Therefore, the actual results could differ materially from those expressed or implied in these forward-looking statements or could affect the extent to which a particular objective, projection, estimate, or prediction is realized.

These forward-looking statements involve risks and uncertainties including, but not limited to, the following:

- changes in the general economy, money and capital markets, the rate of inflation (or deflation),
 employment rates, housing market activity and housing prices, the size and volatility of the residential mortgage market, and uncertainty regarding the global economy;
- levels and volatility of market prices, interest rates, and indices, including those that could affect the value of investments or collateral held by the FHLBanks;
- · changes in monetary and fiscal policies;
- changes in liquidity in the financial markets;
- natural disasters, pandemics or other widespread health emergencies (including the COVID-19 pandemic
 and related developments), terrorist attacks, civil unrest, geopolitical instability or conflicts (including the
 prolonged hostilities between Russia and Ukraine), trade disruptions, economic or other sanctions, or other
 unanticipated or catastrophic events;
- political events, including legislative, regulatory, judicial, or other developments that affect the FHLBanks, their members, counterparties, dealers of consolidated obligations, or investors in consolidated obligations, such as changes in the Federal Home Loan Bank Act of 1932, as amended (FHLBank Act), or in regulations that affect FHLBank operations, housing finance and government-sponsored enterprise (GSE) reform, and Federal Housing Finance Agency (FHFA) actions (including any legislative, regulatory or other actions that may be proposed or implemented as a result of the FHFA's comprehensive review of the FHLBank System);
- the FHLBanks' plans, intent, and ability to make or increase voluntary contributions to their Affordable Housing Program (AHP) or other community investment programs;
- changes to, and replacement of, the London Interbank Offered Rate (LIBOR) benchmark interest rate, and the use and acceptance of the Secured Overnight Financing Rate (SOFR), or any alternative reference rate;
- competitive forces, including other sources of funding available to FHLBank members and other entities borrowing funds in the capital markets;
- disruptions in the credit and debt markets and the effect on the FHLBanks' funding costs, sources, and availability;
- demand for FHLBank advances resulting from changes in FHLBank members' deposit flows and credit demands, or from changes in liquidity in the financial markets;
- loss of members and repayment of advances made to those members due to institutional failures, consolidations, voluntary withdrawals, or involuntary terminations from FHLBank membership, and changes in the financial health of members;
- changes in domestic and foreign investor demand for consolidated obligations, including short-term funding,
 or the terms of derivative transactions and similar transactions, including changes in the relative
 attractiveness of consolidated obligations as compared to other investment opportunities, changes in the
 availability of other investment opportunities, changes in support from dealers of consolidated obligations,
 and changes resulting from any modification of the credit ratings of the U.S. government or the FHLBanks;
- the availability of acceptable institutional counterparties for business transactions, including derivative transactions used to manage interest-rate risk;

- the ability to introduce new products and services and successfully manage the risks associated with those products and services, including new types of collateral used to secure advances;
- the pace of technological change and the ability to develop, secure, and support technology and information systems to effectively manage the risks, including information security; and
- the effect of new accounting guidance, including the development of supporting systems and related internal controls.

Neither the FHLBanks nor the Office of Finance undertakes any obligation to publicly update or revise any forward-looking statements contained in this Combined Financial Report, whether as a result of new information, future events, changed circumstances, or any other reason.

Executive Summary

This executive summary highlights selected information and may not contain all of the information that is important to readers of this Combined Financial Report. For a more complete understanding of events, trends, and uncertainties, this executive summary should be read together with the Financial Discussion and Analysis section in its entirety and the FHLBanks' combined financial statements and related notes.

Overview

The FHLBanks are GSEs, federally-chartered, but privately capitalized and independently managed. The FHLBanks together with the Office of Finance, a joint office of the FHLBanks, comprise the FHLBank System. Each of the FHLBanks and the Office of Finance operates under the supervisory and regulatory framework of the FHFA.

The FHLBanks are cooperative institutions, whose stockholders are also the FHLBanks' primary customers. FHLBank capital stock is not publicly traded; it is purchased by members from, and redeemed or repurchased by, an FHLBank at the stated par value of \$100 per share. Each FHLBank's primary business is to serve as a financial intermediary between the capital markets and its members. This intermediation process involves raising funds by issuing debt, known as consolidated obligations, in the capital markets and lending those proceeds to member institutions in the form of secured loans, known as advances. Each FHLBank's funding is principally obtained from consolidated obligations issued through the Office of Finance on behalf of the FHLBanks.

Consolidated obligations are joint and several obligations of all FHLBanks. FHLBank debt issuance is generally driven by members' needs for advances. As housing GSEs, the FHLBanks have served the public for more than 90 years, benefiting from their flexible debt issuance programs, fully-collateralized lending practices, highly-rated investment holdings, and scalable capital base that is designed to expand and contract in response to changing needs of their members.

The FHLBanks seek to maintain a balance between their public policy mission and their goal of providing adequate returns on member capital. The FHLBanks strive to achieve this balance by providing value to their members through advances, mortgage loan purchases, other services, and dividend payments. The FHLBanks' primary sources of earnings are the net interest spread between the yield on interest-earning assets and the average rate on interest-bearing liabilities, combined with earnings on invested capital. Due to the FHLBanks' cooperative structures, the FHLBanks generally earn a narrow net interest spread.

External Credit Ratings

The FHLBanks' ability to raise funds in the capital markets at narrow spreads to the U.S. Treasury yield curve is due largely to their status as GSEs, which is reflected in their consolidated obligations receiving the same credit rating as the government bond credit rating of the United States, even though the consolidated obligations are not obligations of the United States and are not guaranteed by the United States. S&P Global Ratings (S&P), Moody's

Investors Service (Moody's), or other rating organizations could downgrade or upgrade the credit rating of the U.S. government and GSEs, including the FHLBanks and their consolidated obligations. In addition to ratings on the FHLBanks' consolidated obligations, each FHLBank is rated individually by S&P and Moody's. Investors should note that a rating issued by a nationally recognized statistical rating organization is not a recommendation to buy, sell, or hold securities, and that the ratings may be revised or withdrawn by the rating organization at any time. Investors should evaluate the rating of each nationally recognized statistical rating organization independently. Investors should not take the historical or current ratings of the FHLBanks or their consolidated obligations as an indication of future ratings for the FHLBanks and their consolidated obligations. (See External Credit Ratings for more information.)

Business Environment

The primary external factors that affect the FHLBanks' combined financial condition and results of operations include: (1) the general state of the economy and financial markets, (2) conditions in the U.S. housing markets, (3) interest rate levels and volatility, and (4) the legislative and regulatory environment.

Economy and Financial Markets. The FHLBanks' results of operations are influenced by the overall economy and financial markets, and, in particular, by FHLBank members' demand for advances and the FHLBanks' ability to maintain sufficient access to diverse sources of funding at relatively favorable costs. The FHLBanks' flexibility in utilizing various funding tools, in combination with their diverse investor base and their status as GSEs, has helped ensure reliable market access and demand for consolidated obligations throughout fluctuating market environments and regulatory changes affecting dealers of and investors in consolidated obligations.

In April 2023, the Bureau of Labor Statistics reported that the U.S. unemployment rate was 3.5% in March 2023, unchanged from December 2022 and down slightly from 3.6% in March 2022. The Bureau of Labor Statistics also reported that the unadjusted U.S. consumer price index (CPI) increased 5.0% for the twelve months ended March 31, 2023, compared to an increase of 8.5% for the twelve months ended March 31, 2022.

U.S. real gross domestic product (GDP) increased at an annual rate of 1.1% in the first quarter of 2023, according to the advance estimate reported by the Bureau of Economic Analysis, compared to an annualized increase of 2.6% in the fourth quarter of 2022 and an annualized decrease of 1.6% in the first quarter of 2022, as revised by the Bureau of Economic Analysis.

In January 2023, the United States reached its statutory debt limit and, since then, the U.S. Treasury has been taking extraordinary measures to prevent the United States from defaulting on its obligations. According to the latest estimate by the U.S. Treasury, the United States may be unable to continue to satisfy all of its obligations by early June 2023, if Congress does not raise or suspend the statutory debt limit before that time. A failure by the U.S. government to adequately address its statutory debt limit in a timely manner, or continued uncertainty relating to the debt limit, could result in downgrades to the U.S. sovereign credit rating or outlook and cause significant harm to the U.S. economy and global financial stability. In addition, because of the FHLBanks' GSE status, the credit ratings of the FHLBank System, the FHLBanks, and consolidated obligations are directly influenced by the sovereign credit rating of the United States. Future downgrades in credit ratings or outlook may result in higher funding costs, higher volatility, or other disruptions in the FHLBanks' access to capital markets. (See *Risk Factors* on pages 28 to 40 of the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for additional information on potential risks to the FHLBanks, including those relating to changes to their credit ratings.)

Beginning in March 2023, some U.S. banks, which were FHLBank members, experienced significant deposit outflows and financial difficulties, creating stress for the banking industry and the financial markets. On March 12, 2023, the Federal Reserve announced a plan to make available additional funding to eligible depository institutions to help assure that they have the ability to meet the needs of all their depositors, through eased access to the discount window and the creation of a new Bank Term Funding Program. During this time, the FHLBanks continued

to execute their mission by serving as a reliable source of liquidity and funding for their members. The FHLBanks' assets and liabilities, primarily advances and consolidated obligations, increased significantly during the first quarter of 2023, driven by increased member demand. The FHLBanks are designed such that their assets and liabilities expand and contract as the needs of member financial institutions and their communities change over time. (See <u>Combined Financial Condition - Advances</u>, for additional information.)

Conditions in U.S. Housing Markets. Conditions in the U.S. housing markets primarily affect the FHLBanks through the creation of demand for, and yield on, advances and mortgage loans, as well as the yield on investments in mortgage-backed-securities (MBS). Figure 1 presents U.S. home sales, inventory, and prices for the most recent three years. The seasonally adjusted annual rate of U.S. home sales declined in March 2023, compared to March 2022, driven by significantly higher mortgage interest rates. Despite lower sales volumes, housing inventory in the U.S. remained low.

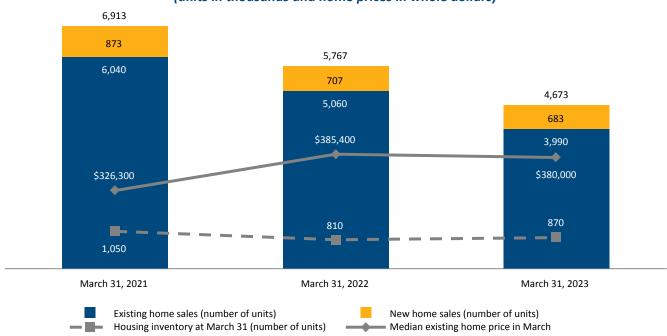


Figure 1 - U.S. Home Sales, Inventory, and Prices (units in thousands and home prices in whole dollars)

Source: National Association of REALTORS® for existing home sales, housing inventory, and median existing home price. Source: U.S. Census Bureau and the Department of Housing and Urban Development for new home sales.

Interest Rate Levels and Volatility. The level and volatility of interest rates affect FHLBank member demand for advances. In addition, credit spreads and the shape of the yield curve affect investor demand for consolidated obligations. These factors, driven in part by federal monetary and fiscal policies, also affect the FHLBanks' combined results of operations, primarily affecting net interest income and the valuation of certain assets and liabilities.

During 2022, the Federal Open Market Committee stated that inflation had remained elevated, reflecting supply and demand imbalances related to the pandemic, higher food and energy prices, and broader price pressures. In response, it raised the target range of the federal funds rate seven times, totaling 4.25% of increases in aggregate, to a target range of 4.25% to 4.50%. The Federal Open Market Committee further raised the target range of the federal funds rate by 0.25% at each of its three meetings in 2023, to a target range of 5.00% to 5.25%. At its meeting in May 2023, the Federal Open Market Committee stated that, in determining the extent to which additional policy firming may be appropriate in order to attain a stance of monetary policy that is sufficiently restrictive to return inflation to two percent over time, it will take into account the cumulative tightening of monetary policy, the lags with which monetary policy affects economic activity and inflation, and economic and

financial developments. In addition, the Federal Open Market Committee noted that tighter credit conditions for households and businesses are likely to weigh on economic activity, hiring, and inflation, although the extent of these effects is uncertain. The Federal Open Market Committee also stated that it will continue reducing its holdings of Treasury securities, agency debt, and agency MBS, which began on June 1, 2022.

Investor demand for the FHLBanks' consolidated obligations remained strong in the first quarter of 2023, with market participants generally favoring short-term consolidated obligations, primarily variable-rate consolidated bonds and consolidated discount notes. The FHLBanks continued to meet their funding needs during the three months ended March 31, 2023.

Table 1 presents the three-month averages and period-end rates for certain key interest rates. The three-month averages of key interest rates were significantly higher during the first quarter of 2023, compared to the first quarter of 2022, affecting the FHLBanks' combined results of operations, primarily by increasing both interest income and interest expense. At March 31, 2023, short-term interest rates were higher, compared to rates at December 31, 2022, while long-term interest rates declined, which affected the fair values of certain assets and liabilities. The level and volatility of interest rates will likely be a significant factor driving the FHLBanks' results of operations and financial condition in 2023.

Table 1 - Key Interest Rates

	Three-Month Average		Perio	d End
	March 31, 2023	March 31, 2022	March 31, 2023	December 31, 2022
Federal Funds Effective	4.52 %	0.12 %	4.83 %	4.33 %
SOFR	4.50 %	0.09 %	4.87 %	4.30 %
Overnight LIBOR	4.50 %	0.12 %	4.80 %	4.32 %
1-week Overnight Indexed Swap	4.55 %	0.15 %	4.82 %	4.34 %
3-month LIBOR	4.92 %	0.53 %	5.19 %	4.77 %
3-month U.S. Treasury yield	4.71 %	0.29 %	4.75 %	4.37 %
2-year U.S. Treasury yield	4.36 %	1.45 %	4.03 %	4.43 %
10-year U.S. Treasury yield	3.65 %	1.95 %	3.47 %	3.88 %

Source: Bloomberg

Table 2 presents the three-month average funding spreads of newly-issued consolidated obligations relative to Treasury and SOFR indices, as well as the ending spread at each period end. For the three months ended March 31, 2023, the cost of newly-issued consolidated obligations increased, as measured by the average indicative spreads to Treasury and SOFR indices, compared to the three months ended March 31, 2022.

Table 2 - Funding Spreads to Treasury and SOFR Indices

(in basis points)

	Three-Mont	Three-Month Average				
Borrowing Term	March 31, 2023	March 31, 2022	March 31, 2023	December 31, 2022		
Treasury						
3-months	12.6	3.4	18.4	23.1		
2-years	18.4	3.9	24.5	18.0		
5-years	14.2	7.4	22.0	12.0		
10-years	57.7	31.7	67.0	65.0		
SOFR						
3-months	1.9	_	(4.5)	(3.6)		
2-years	12.9	7.1	19.4	9.6		
5-years	33.5	23.2	41.9	33.5		
10-years	83.5	48.6	92.3	92.0		

Source: Funding spreads are derived using Office of Finance indications compared to Treasury and SOFR indices.

Legislative and Regulatory Environment. Potential legislative and regulatory changes, as well as other rules and regulations issued by the FHFA, could adversely affect the FHLBanks, FHLBank members, counterparties, and dealers of and investors in consolidated obligations. The FHLBanks' business operations, funding costs, rights, obligations, and the environment in which the FHLBanks carry out their mission could be significantly affected by these changes. (See <u>Legislative and Regulatory Developments</u> for more information.)

Supporting Housing and Community Investment. The FHLBanks are required to set aside a portion of their profits for grants supporting affordable housing each year. These funds assist members in serving very low- and low-, or moderate-income households and community economic development. The FHLBanks' combined net income for the three months ended March 31, 2023, resulted in Affordable Housing Program assessments of \$169 million. In addition to required AHP assessments under the FHLBank Act, an FHLBank's board of directors may elect to make voluntary contributions to its AHP or other community investment programs. In connection with that, and in recognition that additional funding would be beneficial in meeting community needs in affordable housing as well as business and community development, the FHLBanks are either already making additional voluntary contributions or are in the process of increasing their voluntary contribution levels. Certain FHLBanks expensed voluntary contributions to housing and community investment programs, which totaled \$16 million during the three months ended March 31, 2023. These voluntary contribution expenses by the FHLBanks are included in non-interest expense on the Combined Statements of Income.

FHLBanks' Financial Highlights

Combined Financial Condition. The FHLBanks' assets and liabilities expand and contract as the needs of member financial institutions and their communities change over time. Total assets were \$1,564.2 billion at March 31, 2023, an increase of 25% from \$1,247.2 billion at December 31, 2022.

- Advance balances totaled \$1,044.6 billion at March 31, 2023, an increase of 28% from \$819.1 billion at December 31, 2022, driven by continued demand by depository members for liquidity. In particular, in March 2023, member demand for advances accelerated at times in response to the stress placed on the banking industry and financial markets resulting from the financial difficulties experienced by some depository institutions. Commercial banks represented the largest segment of borrowers, with 63% of the total principal amount of advances outstanding at March 31, 2023, compared to 58% at December 31, 2022. The top 10 advance holding borrowers by holding company represented 31% and 27% of the total principal amount of advances outstanding at March 31, 2023 and December 31, 2022. The FHLBanks protect against credit risk on advances by collateralizing all advances. At March 31, 2023, each FHLBank had rights to collateral with an estimated value greater than the related outstanding advances.
- Investments were \$450.3 billion at March 31, 2023, an increase of 24% from \$363.8 billion at December 31, 2022, as the FHLBanks grew their investment portfolios to maintain liquidity in response to the growth in advances and to continue to meet the credit needs of members. The FHLBanks maintain investment portfolios to provide funds to meet the credit needs of their members, maintain liquidity, and earn interest income.
- Mortgage loans held for portfolio were generally flat at March 31, 2023, totaling \$56.2 billion. An FHLBank
 may purchase mortgage loans to support its housing mission, provide an additional source of liquidity to its
 members, diversify its investments, and generate additional earnings.

Total liabilities were \$1,486.6 billion at March 31, 2023, an increase of 26% compared to \$1,179.4 billion at December 31, 2022.

• Consolidated obligations totaled \$1,459.1 billion at March 31, 2023, an increase of 26% from \$1,161.4 billion at December 31, 2022, in line with the increase in total assets and consisting of a 36% increase in consolidated bonds and an 11% increase in consolidated discount notes. Consolidated obligations are the principal funding source used by the FHLBanks to make advances and to purchase mortgage loans and

investments. The future amounts and types of consolidated obligations issued depend primarily on the demand for the FHLBanks' advances.

Total GAAP capital was \$77.6 billion at March 31, 2023, an increase of 14% from \$67.8 billion at December 31, 2022. The GAAP capital-to-assets ratio was 4.96% and the regulatory capital-to-assets ratio was 5.09% at March 31, 2023, compared to 5.44% and 5.55% at December 31, 2022. Each FHLBank was in compliance with FHFA regulatory capital requirements at March 31, 2023.

- Capital stock was \$53.4 billion at March 31, 2023, an increase of 21% from \$44.0 billion at December 31, 2022, due principally to the net issuance of activity-based capital stock, driven by the increase in advances.
- Retained earnings grew to \$25.4 billion at March 31, 2023, an increase of 3% from \$24.6 billion at
 December 31, 2022, resulting principally from net income of \$1,510 million, partially offset by dividends of
 \$676 million.

Combined Results of Operations. Net income was \$1,510 million for the three months ended March 31, 2023, an increase of \$1,008 million, or 201%, compared to the three months ended March 31, 2022, resulting primarily from higher net interest income.

Net interest income was \$2,019 million for the three months ended March 31, 2023, an increase of \$1,047 million, or 108%, compared to the three months ended March 31, 2022. Net interest margin was 0.60% for the three months ended March 31, 2023, an increase of 7 basis points compared to the three months ended March 31, 2022.

- Interest income was \$15,889 million for the three months ended March 31, 2023, an increase of \$14,274 million, compared to the three months ended March 31, 2022, driven primarily by an increase in the average yield on interest-earning assets. Although significantly higher interest rates were the primary factor affecting interest income, the higher average balance of advances was also a contributing factor.
- Interest expense was \$13,870 million for the three months ended March 31, 2023, an increase of \$13,227 million compared to the three months ended March 31, 2022, driven primarily by the higher average rate on consolidated obligations. Although significantly higher interest rates were the primary factor affecting interest expense, the higher average balance of consolidated obligations was also a contributing factor.

The future level of net interest income of the FHLBanks will depend, in part, upon the level and volatility of interest rates, demand for advances, cost of consolidated obligations, changes in fiscal or monetary policies, as well as the state of the overall U.S. economy and financial markets.

Non-interest income was a gain of \$68 million for the three months ended March 31, 2023, resulting primarily from changes in the fair value of investment securities, derivatives, and financial instruments held under fair value option, driven by changes in interest rates. Non-interest income was a loss of \$62 million for the three months ended March 31, 2022.

Non-interest expense was \$408 million for the three months ended March 31, 2023, an increase of \$56 million, or 16%, compared to the three months ended March 31, 2022, due primarily to higher compensation and benefits, higher other operating expenses, and higher other expenses.

Affordable Housing Program assessments result from individual FHLBank income subject to assessment. Affordable Housing Program assessments were \$169 million for the three months ended March 31, 2023, an increase of \$113 million, or 202%, compared to the three months ended March 31, 2022.

See Combined Financial Condition and Combined Results of Operations for further information.

Combined Financial Condition

The FHLBanks' asset composition includes cash and due from banks, investments, advances, mortgage loans held for portfolio, and other assets. The FHLBanks' liability composition includes deposits, consolidated discount notes, consolidated bonds, mandatorily redeemable capital stock, and other liabilities. The FHLBanks' capital composition includes capital stock, retained earnings, and accumulated other comprehensive income (loss) (AOCI). The FHLBanks' assets and liabilities expand and contract as the needs of member financial institutions and their communities change over time. As of March 31, 2023, total assets increased 25%, total liabilities increased 26%, and total GAAP capital increased 14%, compared to December 31, 2022. Figure 2 presents the total assets, liabilities, and capital for the most recent five quarters.

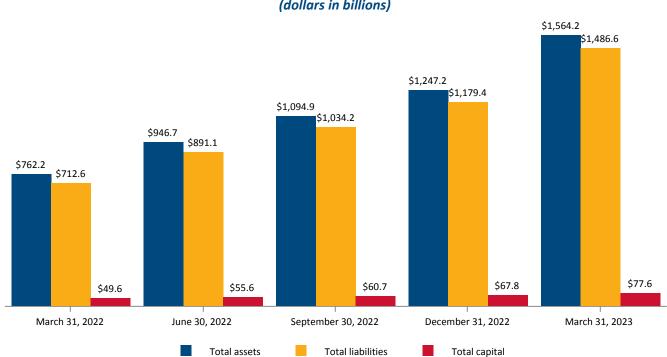
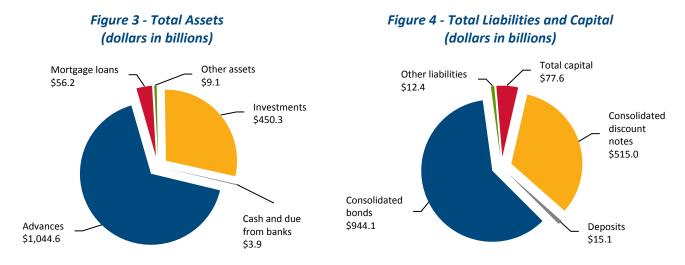


Figure 2 - Total Assets, Liabilities, and Capital (dollars in billions)

Figures 3 and 4 present the total assets and total liabilities and capital composition at March 31, 2023.



Advances

The FHLBanks provide funding to members and housing associates through secured loans (advances), which may be used for, among other things, residential mortgages, community investments, and other services for housing and community development. Each FHLBank makes advances based on the security of mortgage loans and other types of eligible collateral pledged by, and the creditworthiness and financial condition of, the borrowing institutions. Figure 5 presents advances for the most recent five quarters.

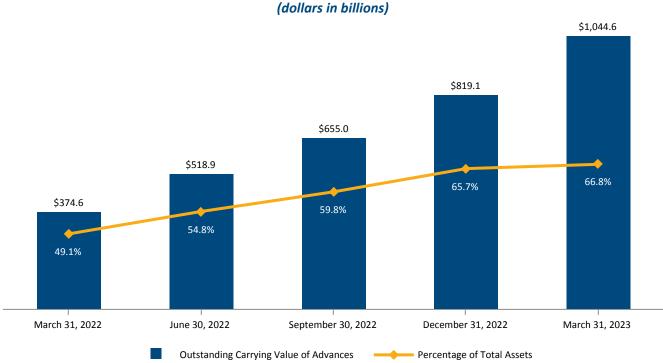


Figure 5 - Advances Outstanding (Carrying Value)

(dollars in hillions)

The outstanding carrying value of advances totaled \$1,044.6 billion at March 31, 2023, an increase of \$225.5 billion, or 28%, from \$819.1 billion at December 31, 2022, resulting primarily from an increase in fixed-rate advances. The increase in advances to the top 25 advance holders at each FHLBank, in aggregate, represented over 90% of the total increase in the principal amount of advances outstanding at March 31, 2023, compared to December 31, 2022. The FHLBanks' assets and liabilities expand and contract as the needs of member financial institutions and their communities change over time. The future demand for advances will depend on many factors, including but not limited to, changes in interest rates, government liquidity programs, changes in fiscal and monetary policies, as well as the state of the overall U.S. economy and financial markets. Advances increased during the first quarter of 2023, driven by continued demand by depository members for liquidity. In particular, during March 2023, member demand for advances accelerated in response to the stress placed on the banking industry and financial markets resulting from the financial difficulties experienced by some depository institutions. The Federal Reserve reported that deposits at commercial banks declined by 4.8% during the first quarter of 2023, compared to deposit growth of 4.2% during the first quarter of 2022.

Figure 7 - Advances by Redemption Term

Figure 6 - Advances by Product Type

The percentage of members with outstanding advances was 56% at both March 31, 2023 and December 31, 2022. Figures 6 and 7 present the principal amount of advances by product type and by redemption term for the most recent five quarters.

(dollars in billions) (dollars in billions) \$1,050.2 \$1,050.2 \$97.7 \$132.3 \$827.1 \$827.1 \$53.7 \$252.6 \$223.0 \$73.9 \$101.1 \$663.4 \$663.4 \$169.9 \$175.1 \$66.9 \$96.7 \$523.6 \$523.6 \$154.8 \$138.9 \$83.2 \$64.1 \$377.3 \$377.3 \$64.4 \$117.1 \$641.2 \$650.2 \$32.5 \$53.1 \$529.6 \$48.6 \$504.2 \$87.2 \$388.1 \$383.9 \$330.6 \$288.5 \$239.8 \$175.1 Oecember 31, 2022 1 June 30, 2022 Watch 31, 2023 Fixed-rate Due in 1 year or less Variable-rate Due after 1 year through 3 years Variable-rate, callable or prepayable Due after 3 years through 5 years Fixed-rate, putable and Other Thereafter

Table 3 presents advances outstanding by product type and redemption term, some of which include advances that contain embedded put or call options. A member can either sell an embedded option to an FHLBank or purchase an embedded option from an FHLBank. (See <u>Note 4 - Advances</u> to the accompanying combined financial statements for additional information on putable and callable advances and their potential effects on advance redemptions.)

Table 3 - Types of Advances by Redemption Term

		March 3	1, 2023	2023 December		Change		
		Amount	Percentage	Amount	Percentage	Amount	Percentage	
Fixed-rate								
Due in 1 year or less	\$	455,001	43.3 %	\$ 379,581	45.9 %	\$ 75,420	19.9 %	
Due after 1 year through 3 years		101,330	9.6 %	61,871	7.5 %	39,459	63.8 %	
Due after 3 years through 5 years		64,414	6.1 %	42,527	5.1 %	21,887	51.5 %	
Due after 5 years through 15 years		19,806	1.9 %	19,625	2.4 %	181	0.9 %	
Thereafter		637	0.1 %	639	0.1 %	(2)	(0.3)%	
Total principal amount		641,188	61.0 %	504,243	61.0 %	136,945	27.2 %	
Fixed-rate, putable								
Due in 1 year or less		144	_	28	_	116	414.3 %	
Due after 1 year through 3 years		3,320	0.3 %	1,769	0.2 %	1,551	87.7 %	
Due after 3 years through 5 years		5,296	0.5 %	4,090	0.5 %	1,206	29.5 %	
Due after 5 years through 15 years		19,891	1.9 %	20,149	2.4 %	(258)	(1.3)%	
Thereafter		-	_	_	_	_	_	
Total principal amount	_	28,651	2.7 %	26,036	3.1 %	2,615	10.0 %	
Variable-rate								
Due in 1 year or less		135,913	12.9 %	103,267	12.5 %	32,646	31.6 %	
Due after 1 year through 3 years		81,568	7.8 %	63,400	7.7 %	18,168	28.7 %	
Due after 3 years through 5 years		3,285	0.4 %	6,253	0.8 %	(2,968)	(47.5)%	
Due after 5 years through 15 years		2,209	0.2 %	2,209	0.3 %	_	_	
Thereafter		_	_	_	_	_	_	
Total principal amount		222,975	21.3 %	175,129	21.3 %	47,846	27.3 %	
Variable-rate, callable or prepayable(1)								
Due in 1 year or less		55,031	5.2 %	43,036	5.2 %	11,995	27.9 %	
Due after 1 year through 3 years		57,256	5.5 %	35,191	4.3 %	22,065	62.7 %	
Due after 3 years through 5 years		16,995	1.6 %	16,325	2.0 %	670	4.1 %	
Due after 5 years through 15 years		2,684	0.3 %	6,179	0.7 %	(3,495)	(56.6)%	
Thereafter		357	_	357	_	_	_	
Total principal amount		132,323	12.6 %	101,088	12.2 %	31,235	30.9 %	
Other(2)								
Due in 1 year or less		4,087	0.4 %	3,694	0.4 %	393	10.6 %	
Due after 1 year through 3 years		9,154	0.9 %	7,623	0.9 %	1,531	20.1 %	
Due after 3 years through 5 years		7,733	0.7 %	4,676	0.6 %	3,057	65.4 %	
Due after 5 years through 15 years		3,911	0.4 %	4,418	0.5 %	(507)	(11.5)%	
Thereafter		129	_	131	_	(2)	(1.5)%	
Total principal amount		25,014	2.4 %	20,542	2.4 %	4,472	21.8 %	
Overdrawn and overnight deposit accounts		3	_	20	_	(17)		
Total principal amount advances		1,050,154	100.0 %	827,058	100.0 %	_	27.0 %	
Other adjustments, net(3)		(5,540)		(7,937)				
Total advances	\$	1,044,614		\$ 819,121				

¹⁾ Prepayable advances are those advances that may be contractually prepaid by the borrower on specified dates without incurring prepayment or termination fees.

⁽²⁾ Includes hybrid, fixed-rate amortizing/mortgage matched, convertible, fixed-rate callable or prepayable, and other advances.

⁽³⁾ Consists of hedging and fair value option valuation adjustments and unamortized premiums, discounts, and commitment fees.

Table 4 presents the principal amount of advances indexed to a variable interest rate at March 31, 2023 and December 31, 2022. (See *Quantitative and Qualitative Disclosures about Market Risk* for more information on the transition from LIBOR and the use of SOFR as an alternative market benchmark.)

Table 4 - Advances Indexed to a Variable Interest Rate⁽¹⁾

(dollars in millions)

	Ma	arch 31, 2023	Dece	mber 31, 2022
SOFR	\$	233,230	\$	173,994
Consolidated obligation yields		40,916		39,641
LIBOR		5,837		6,495
Other(2)		75,320		56,465
Total principal amount of advances indexed to a variable interest rate	\$	355,303	\$	276,595

¹⁾ Includes fixed-rate advances that have cap/floor optionality linked to an interest-rate Index.

Table 5 presents cash flows related to advance originations and advance repayments. During the three months ended March 31, 2023, advance originations exceeded repayments, resulting in higher advances outstanding. Both the advance originations and advance repayments increased during the three months ended March 31, 2023, compared to the three months ended March 31, 2022, resulting primarily from an increase in short-term advance activity.

Table 5 - Advance Originations and Repayments

(dollars in millions)

	Thre	e Mo	nths Ended March	31,	
	2023		2022		Change
\$	4,220,064	\$	936,259	\$	3,283,805
	3,996,965		908,326		3,088,639
\$	223,099	\$	27,933		

The FHLBanks make advances primarily to their members. At March 31, 2023, advances to depository members (commercial banks, savings institutions, and credit unions) grew by 32% compared to December 31, 2022. Table 6 presents the principal amount of advances by type of borrower and member.

Table 6 - Advances by Type of Borrower and Member

		March 3	1, 2023		December 3	31, 2022
		ncipal Amount	Number of Members	Princ	cipal Amount	Number of Members
Commercial bank members	\$	665,278	2,184	\$	480,565	2,165
Insurance company members		143,260	237		137,112	233
Savings institution members		134,392	402		94,545	399
Credit union members		87,694	778		96,676	820
Community development financial institution members		252	29		273	30
Total	<u> </u>	1,030,876	3,630		809,171	3,647
Non-members(1)		18,186			16,991	
Housing associates		1,092			896	
Total principal amount	\$	1,050,154		\$	827,058	
Total members			6,484			6,502

⁽¹⁾ Includes \$11.2 billion of principal amount of advances outstanding to captive insurance companies at both March 31, 2023 and December 31, 2022, which had their memberships terminated no later than February 19, 2021.

⁽²⁾ Includes advances with floating rates that are not indexed to a single rate, but may be determined using a formula incorporating multiple indices.

Figures 8 and 9 present the percentage of principal amount of advances by type of borrower and percentage of member borrowers by type of member at March 31, 2023. Commercial banks represented the largest segment of borrowers, with 63% of the total principal amount of advances outstanding at March 31, 2023, compared to 58% at December 31, 2022.

Figure 8 - Percentage of Principal Amount of Advances by Type of Borrower

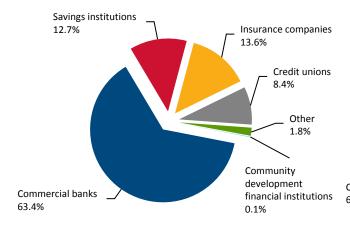
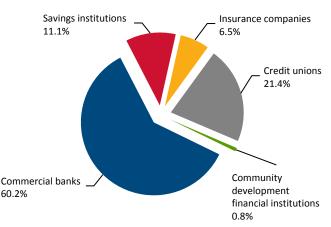


Figure 9 - Percentage of Member Borrowers by Type of Member



Beginning in March 2023, some U.S. banks experienced significant deposit outflows and financial difficulties, creating stress for the banking industry and the financial markets. Silvergate Bank, a member of the FHLBank of San Francisco with \$4.3 billion in advances outstanding at December 31, 2022, went into voluntary liquidation. In addition, the FDIC was appointed as receiver for Silicon Valley Bank, a member of the FHLBank of San Francisco with \$15.0 billion in advances outstanding at December 31, 2022, and Signature Bank, a member of the FHLBank of New York with \$11.3 billion in advances outstanding at December 31, 2022. As of March 31, 2023, no advances to Silvergate Bank and Silicon Valley Bank were outstanding. As of March 31, 2023, \$10.2 billion in advances were outstanding to Signature Bridge Bank, N.A. (formerly Signature Bank), and these advances are fully collateralized and are expected to be repaid with no credit loss to the FHLBank of New York.

On March 12, 2023, the U.S. Treasury, the Federal Reserve, and the FDIC announced actions to enable the resolution of Silicon Valley Bank and Signature Bank in a manner that fully protects all of their depositors. On the same day, the Federal Reserve announced a plan to make available additional funding to eligible depository institutions to help assure that they have the ability to meet the needs of all of their depositors, through eased access to the discount window and a new funding program offering collateralized loans for terms of up to one year. The U.S. Treasury, relying on the Exchange Stabilization Fund, will provide \$25 billion in credit protection to the Federal Reserve in connection with this new program.

On May 1, 2023, the FDIC was appointed as receiver for First Republic Bank, a member of the FHLBank of San Francisco. The FDIC and JPMorgan Chase Bank, National Association entered into a purchase and assumption agreement for all the deposits and substantially all of the assets of First Republic Bank, including \$28.1 billion in advances outstanding from the FHLBank of San Francisco. The May 1, 2023 advances outstanding balance was unchanged compared to the outstanding balance at March 31, 2023. Additionally, as of May 1, 2023, First Republic Bank had \$179 million in letters of credit outstanding compared to \$162 million outstanding as of March 31, 2023. These advances and letters of credit are fully collateralized and are not expected to result in any credit loss to the FHLBank of San Francisco. Due to the recent events affecting the ownership structure of several of the FHLBank of San Francisco's largest members, if the advances outstanding to these institutions are not replaced when repaid, the decrease in advances may result in a reduction of the FHLBank of San Francisco's total assets, capital, and net income over time. (See the FHLBank of San Francisco's 2023 First Quarter SEC Form 10-Q for additional information.)

Table 7 presents the FHLBanks' top 10 advance holding borrowers by holding company, on a combined basis, based on the principal amount of advances outstanding at March 31, 2023. The percentage of total advances for each holding company was computed by dividing the principal amount of advances by subsidiaries of that holding company by the principal amount of total combined advances. These percentage concentrations do not represent borrowing concentrations in an individual FHLBank. The top 10 advance holding borrowers by holding company represented 31% of the total principal amount of advances outstanding at March 31, 2023, compared to 27% at December 31, 2022.

Table 7 - Top 10 Advance Holding Borrowers by Holding Company at March 31, 2023

Holding Company Name(1)	FHLBank Districts(2)	 Principal Amount	Percentage of Total Principal Amount of Advances
Truist Financial Corporation	Atlanta	\$ 56,702	5.4 %
U.S. Bancorp	Cincinnati, San Francisco, Des Moines	47,051	4.5 %
The Charles Schwab Corporation	Dallas	45,600	4.3 %
The PNC Financial Services Group, Inc.	Pittsburgh	32,020	3.0 %
Wells Fargo & Company	Des Moines, San Francisco	29,000	2.8 %
Bank of America Corporation	Atlanta, San Francisco, Boston, Des Moines	28,855	2.7 %
First Republic Bank(3)	San Francisco	28,100	2.7 %
New York Community Bancorp, Inc.	New York, Indianapolis	20,350	1.9 %
The Toronto-Dominion Bank	Pittsburgh, Atlanta	19,501	1.9 %
KeyCorp	Cincinnati	 18,841	1.8 %
		\$ 326,020	31.0 %

⁽¹⁾ Holding company information was obtained from the Federal Reserve System's website, the National Information Center (NIC), and SEC filings. The NIC is a central repository of data about banks and other institutions for which the Federal Reserve System has a supervisory, regulatory, or research interest, including both domestic and foreign banking organizations operating in the United States.

⁽²⁾ At March 31, 2023, each holding company had subsidiaries with advance borrowings in these FHLBank districts.

⁽³⁾ On May 1, 2023, the FDIC was appointed as receiver for First Republic Bank, a member of the FHLBank of San Francisco. The FDIC and JPMorgan Chase Bank, National Association entered into a purchase and assumption agreement for all the deposits and substantially all of the assets of First Republic Bank, including \$28.1 billion in advances outstanding from the FHLBank of San Francisco.

Investments

The FHLBanks maintain investment portfolios for liquidity purposes and to generate additional earnings. The income from these investment portfolios also bolsters the FHLBanks' capacity to support affordable housing and community investment. The FHLBanks invest in investment-quality securities to mitigate credit risk inherent in these portfolios. FHFA regulations prohibit the FHLBanks from investing in certain types of securities and limit the FHLBanks' investment in MBS and asset-backed securities (ABS). (See *Financial Discussion and Analysis of Combined Financial Condition and Combined Results of Operations - Risk Management - Credit Risk - Investments* on pages 107 to 108 of the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for additional information regarding the regulatory restrictions on investments.) Figure 10 presents total investments for the most recent five quarters.

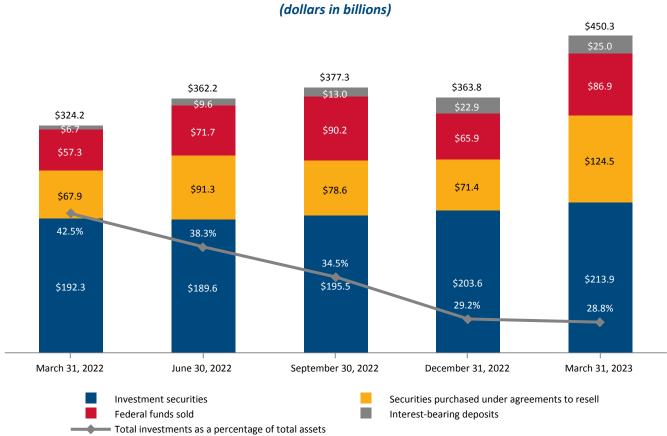


Figure 10 - Total Investments (Carrying Value)

Total investments, net was \$450.3 billion at March 31, 2023, an increase of \$86.4 billion, or 24%, from \$363.8 billion at December 31, 2022, driven primarily by growth in liquidity investments. The increase in liquidity investments was concentrated in securities purchased under agreements to resell and federal funds sold, which allowed the FHLBanks to maintain liquidity in response to the increased demand for advances and to continue to meet the credit needs of members. The FHLBanks classify investment securities as held-to-maturity (HTM), available-for-sale (AFS), or trading securities. Figure 11 presents the composition of investment securities by product type for the most recent five quarters.



Figure 11 - Investment Securities by Product Type (Carrying Value) (dollars in billions)

The FHLBanks maintain short-term investment portfolios, the proceeds of which may provide funds to meet the credit needs of their members and to maintain liquidity. These portfolios may include:

- interest-bearing deposits;
- securities purchased under agreements to resell;
- federal funds sold;
- certificates of deposit;
- U.S. Treasury obligations;
- other U.S. obligations; and
- GSE obligations.

The yield earned on these short-term investments is highly correlated with short-term market interest rates. At March 31, 2023, the FHLBanks continued to maintain significant short-term investment balances as part of their ongoing investment strategy and to satisfy liquidity needs. (See <u>Liquidity and Capital Resources</u> for further discussion related to liquidity management.)

The FHLBanks maintain long-term investment portfolios as an additional source of liquidity and to earn interest income. These investments generally provide the FHLBanks with higher returns than those available on short-term investments. These portfolios may include:

- U.S. Treasury obligations;
- other U.S. obligations;
- GSE obligations;
- · agency obligations; and
- other MBS and ABS.

Table 8 presents the composition of investments, including investment securities, at March 31, 2023 and December 31, 2022.

Table 8 - Total Investments

Net Carrying Value	Mar	ch 31, 2023	December 31, 2022	Change
Interest-bearing deposits	\$	25,063	\$ 22,937	\$ 2,126
Securities purchased under agreements to resell		124,460	71,405	53,055
Federal funds sold		86,856	65,920	20,936
Total Investment Securities by Major Security Type				
Investment securities non-mortgage-backed securities				
U.S. Treasury obligations		42,915	46,386	(3,471)
Other U.S. obligations		2,444	3,340	(896)
GSE and Tennessee Valley Authority obligations		11,230	11,128	102
State or local housing agency obligations		2,054	2,049	5
Federal Family Education Loan Program ABS		2,137	2,304	(167)
Other		747	739	8
Total investment securities non-mortgage-backed securities		61,527	65,946	(4,419)
Investment securities mortgage-backed securities				
U.S. obligations single-family		11,838	9,108	2,730
U.S. obligations multifamily		479	476	3
GSE single-family		17,234	14,873	2,361
GSE multifamily		121,229	111,528	9,701
Private-label		1,568	1,619	(51)
Total investment securities mortgage-backed securities		152,348	137,604	14,744
Total investment securities		213,875	203,550	10,325
Total investments	\$	450,254	\$ 363,812	\$ 86,442

The interest-rate and prepayment risks associated with investment securities are managed through a combination of debt issuance and derivatives. (See <u>Note 6 - Derivatives and Hedging Activities</u> to the accompanying combined financial statements for additional information.) Figure 12 summarizes the interest-rate payment terms of investment securities by product type for the most recent five quarters, with trading securities presented at fair value and AFS and HTM securities presented at amortized cost.

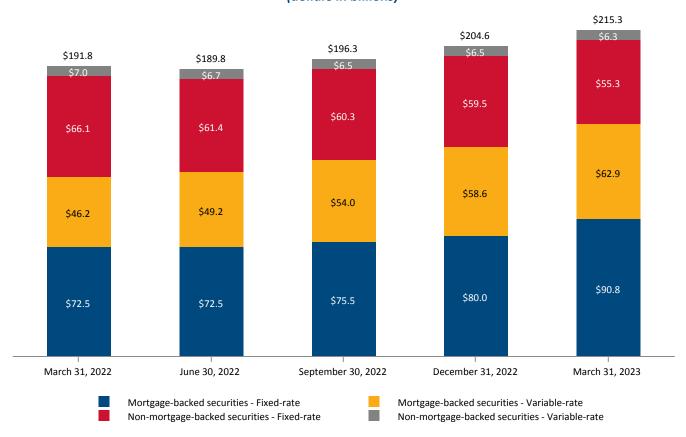


Figure 12 - Interest-Rate Payment Terms of Investment Securities by Product Type (dollars in billions)

Table 9 presents the interest-rate payment terms of investment securities at March 31, 2023 and December 31, 2022.

Table 9 - Interest-Rate Payment Terms of Investment Securities

	March 31, 2023	Dec	ember 31, 2022
Trading Securities at Fair Value			
Trading non-mortgage-backed securities			
Fixed-rate	\$ 11,7	30 \$	15,179
Variable-rate			_
Total trading non-mortgage-backed securities	11,7	30	15,179
Trading mortgage-backed securities			
Fixed-rate	6	70	668
Variable-rate		17	18
Total trading mortgage-backed securities	6	37	686
Total trading securities	\$ 12,4	17 \$	15,865
Available-for-Sale Securities at Amortized Cost			
Available-for-sale non-mortgage-backed securities			
Fixed-rate	\$ 42,1	15 \$	42,149
Variable-rate	5,0	52	5,268
Total available-for-sale non-mortgage-backed securities	47,1	77	47,417
Available-for-sale mortgage-backed securities			
Fixed-rate	75,2)0	65,876
Variable-rate	19,1	95	17,641
Total available-for-sale mortgage-backed securities	94,3)5	83,517
Total available-for-sale securities	\$ 141,5	72 \$	130,934
Held-to-Maturity Securities at Amortized Cost			
Held-to-maturity non-mortgage-backed securities			
Fixed-rate	\$ 1,4	23 \$	2,201
Variable-rate	1,2	58	1,257
Total held-to-maturity non-mortgage-backed securities	2,6	31	3,458
Held-to-maturity mortgage-backed securities			
Fixed-rate	14,9	38	13,447
Variable-rate	43,7)9	40,915
Total held-to-maturity mortgage-backed securities	58,6	17	54,362
Total held-to-maturity securities	\$ 61,3	28 \$	57,820

Table 10 presents the principal amount of variable-rate investment securities by interest-rate index at March 31, 2023 and December 31, 2022. (See Quantitative and Qualitative Disclosures about Market Risk for more information on the transition from LIBOR and the use of SOFR as an alternative market benchmark.)

Table 10 - Variable-Rate Investment Securities by Interest-Rate Index (dollars in millions)

	 March 31, 2023					Dec	ember 31, 2022		
	ortgage- securities	Мо	ortgage-backed securities		Total	n-mortgage- ked securities	М	ortgage-backed securities	Total
LIBOR	\$ 3,463	\$	29,017	\$	32,480	\$ 3,670	\$	30,031	\$ 33,701
SOFR	1,629		33,893		35,522	1,629		28,539	30,168
Other(1)	1,227		217		1,444	1,227		224	1,451
Total principal amount of variable- rate investment securities	\$ 6,319	\$	63,127	\$	69,446	\$ 6,526	\$	58,794	\$ 65,320

Consists primarily of investments indexed to Treasury rates.

Limits on Certain Investments. FHFA regulations prohibit an FHLBank from purchasing MBS/ABS if its investment in these securities exceeds 300% of that FHLBank's previous month-end regulatory capital on the day it intends to purchase the securities. During the three months ended March 31, 2023, each of the FHLBanks was in compliance with this regulatory requirement at the time of its respective securities purchases. On a combined basis, the FHLBanks' percentage of MBS/ABS (net of regulatory excluded MBS) was 201% of combined regulatory capital at March 31, 2023.

Mortgage Loans Held for Portfolio

An FHLBank may purchase fixed-rate mortgage loans to support the FHLBank's housing mission, provide an additional source of liquidity to FHLBank members, diversify its investments, and generate additional earnings. The mortgage loan programs consist of the Mortgage Purchase Program (MPP), the Mortgage Partnership Finance® (MPF®) Program, and the Mortgage Asset Program (MAP®). Figure 13 presents mortgage loans held for portfolio (designated as held for investment for accounting purposes) for the most recent five quarters.

(dollars in billions) \$56.0 \$56.2 \$56.0 \$55.8 \$55.5 7.3% 5.9% 5.1% 4.5% 3.6% March 31, 2022 June 30, 2022 September 30, 2022 December 31, 2022 March 31, 2023 Mortgage Loans Held for Portfolio Percentage of Total Assets

Figure 13 - Mortgage Loans Held for Portfolio (Carrying Value)

Mortgage loans were generally flat at March 31, 2023, compared to December 31, 2022, and, excluding the allowance for credit losses, totaled \$56.3 billion. The allowance for credit losses on mortgage loans was \$30 million at both March 31, 2023 and December 31, 2022. The FHLBanks utilize credit enhancements on conventional mortgage loans held for portfolio, which help to mitigate expected credit losses.

Table 11 presents mortgage loans held for portfolio at March 31, 2023 and December 31, 2022.

Table 11 - Mortgage Loans Held for Portfolio

(dollars in millions)

	Mar	ch 31, 2023	Dec	ember 31, 2022
Mortgage loans held for portfolio	\$	56,258	\$	56,078
Allowance for credit losses on mortgage loans		(30)		(30)
Mortgage loans held for portfolio, net	\$	56,228	\$	56,048

Table 12 presents metrics and ratios of mortgage loans held for portfolio. Periodically, each FHLBank evaluates the allowance for credit losses for its mortgage loans based on its policies and procedures to determine if an allowance for credit losses is necessary.

Table 12 - Mortgage Loans Held for Portfolio - Metrics and Ratios

(dollars in millions)

	March 31, 2023	March 31, 2022
Average loans outstanding during the period (UPB)(1)	\$ 55,263	\$ 54,733
Mortgage loans held for portfolio (UPB)	55,431	54,550
Non-accrual loans (UPB)	182	289
Allowance for credit losses on mortgage loans held for portfolio	30	25
(Charge-offs), net of recoveries(1)	_	_
Ratio of charge-offs, net of recoveries to average loans outstanding during the period(1)	- %	- %
Ratio of allowance for credit losses to mortgage loans held for portfolio	0.05 %	0.05 %
Ratio of non-accrual loans to mortgage loans held for portfolio	0.33 %	0.53 %
Ratio of allowance for credit losses to non-accrual loans	16.48 %	8.65 %

⁽¹⁾ Represents the three months ended March 31, 2023 and 2022.

MPF Xtra® Conventional Mortgage Loans. In addition to mortgage loans purchased by the FHLBanks and held for portfolio, the FHLBank of Chicago also purchases eligible conventional loans from participating financial institutions (PFIs) located in its district, and in other MPF FHLBank districts under the MPF Xtra® product. Upon purchase from the PFIs, the FHLBank of Chicago concurrently sells the mortgage loans to Fannie Mae. During the three months ended March 31, 2023 and 2022, the FHLBank of Chicago purchased and concurrently delivered \$139 million and \$564 million in UPB of these loans to Fannie Mae. (See *Business - Mortgage Loans* on page 11 of the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for more information about MPF Xtra® mortgage loans.)

Consolidated Obligations

Consolidated obligations consist of consolidated bonds and consolidated discount notes, which are joint and several obligations of all FHLBanks. The FHLBanks issue consolidated obligations through the Office of Finance as their agent. Consolidated obligations are the principal funding source used by the FHLBanks to make advances and to purchase mortgage loans and investments. The outstanding balance and types of consolidated obligations issued will fluctuate based on the funding requirements of the FHLBanks. The future amounts and types of consolidated obligations issued depend primarily on the demand for advances and could also be affected by changes in fiscal and monetary policies, as well as the state of the overall U.S. economy and financial markets. Figure 14 presents consolidated bonds and consolidated discount notes for the most recent five quarters.

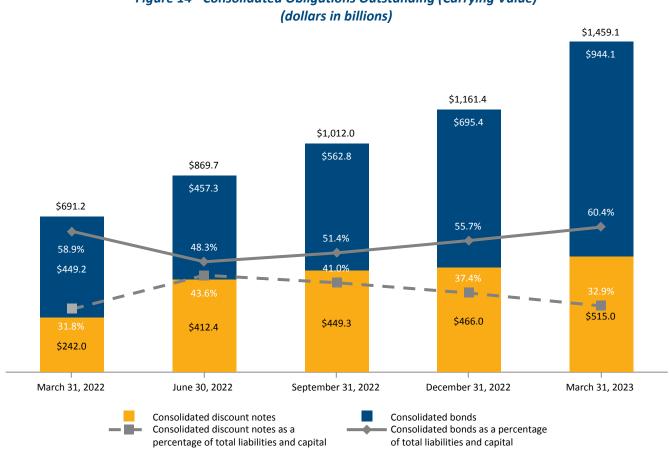


Figure 14 - Consolidated Obligations Outstanding (Carrying Value)

The carrying value of consolidated obligations totaled \$1,459.1 billion at March 31, 2023, an increase of \$297.7 billion, or 26%, from \$1,161.4 billion at December 31, 2022, in line with the increase in total assets. The increase in consolidated obligations was comprised of a 36% increase in consolidated bonds, primarily short-term consolidated bonds, and an 11% increase in consolidated discount notes.

Consolidated bonds may be issued to raise short-, intermediate-, or long-term funds. Consolidated bonds are issued with either fixed-rate coupon payment terms or variable-rate coupon payment terms that are indexed to specified indices, such as SOFR, and have maturities ranging from three months to 30 years. The carrying value of consolidated bonds was \$944.1 billion at March 31, 2023, an increase of \$248.7 billion, or 36%, from \$695.4 billion at December 31, 2022. Consolidated bonds represented 65% and 60% of total consolidated obligations outstanding at March 31, 2023 and December 31, 2022.

Consolidated discount notes are issued to provide short-term funding and have a maturity range of one day to one year. They are generally issued below face value and mature at face value. A significant portion of consolidated discount note activity typically results from the refinancing of maturing discount notes. The carrying value of consolidated discount notes was \$515.0 billion at March 31, 2023, an increase of \$49.0 billion, or 11%, from \$466.0 billion at December 31, 2022. Consolidated discount notes represented 35% and 40% of total consolidated obligations outstanding at March 31, 2023 and December 31, 2022.

Figures 15 and 16 present the principal amount of consolidated obligations by product type and by contractual maturity for the most recent five quarters.

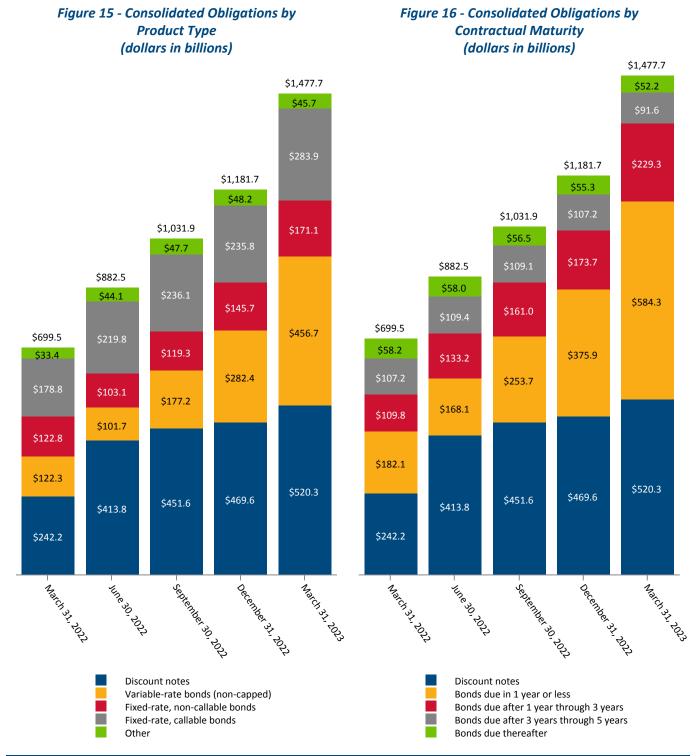


Table 13 presents the composition of consolidated obligations by product type and by contractual maturity at March 31, 2023 and December 31, 2022. At both March 31, 2023 and December 31, 2022, all outstanding variable-rate consolidated bonds were indexed to SOFR.

Table 13 - Types of Consolidated Obligations by Contractual Maturity

	March 3:	1, 2023	December	31, 2022	Chan	Change			
	Amount	Percentage	Amount	Percentage	Amount	Percentage			
Consolidated Discount Notes									
Overnight	\$ 8,000	0.5 %	\$ 5,789	0.4 %	\$ 2,211	38.2			
Due after 1 day through 30 days	140,532	9.5 %	139,764	11.8 %	768	0.5			
Due after 30 days through 90 days	233,024	15.8 %	244,705	20.7 %	(11,681)	(4.8)			
Due after 90 days through 1 year	138,721	9.5 %	79,307	6.7 %	59,414	74.9			
Total principal amount	520,277	35.3 %	469,565	39.6 %	50,712	10.8			
Consolidated Bonds									
Fixed-rate, non-callable									
Due in 1 year or less	88,560	6.0 %	68,188	5.8 %	20,372	29.9			
Due after 1 year through 3 years	53,618	3.6 %	48,825	4.1 %	4,793	9.8			
Due after 3 years through 5 years	14,418	1.0 %	13,982	1.2 %	436	3.1			
Due after 5 years through 15 years	13,827	0.9 %	14,043	1.2 %	(216)	(1.5			
Thereafter	664	_	670	0.1 %	(6)	(0.9			
Total principal amount	171,087	11.5 %	145,708	12.4 %	25,379	17.4			
Fixed-rate, callable									
Due in 1 year or less	54,993	3.7 %	33,439	2.8 %	21,554	64.5			
Due after 1 year through 3 years	136,181	9.2 %	94,479	8.0 %	41,702	44.1			
Due after 3 years through 5 years	61,679	4.2 %	74,229	6.3 %	(12,550)	(16.9			
Due after 5 years through 15 years	27,866	1.9 %	30,363	2.6 %	(2,497)	(8.2			
Thereafter	3,228	0.2 %	3,278	0.3 %	(50)	(1.5			
Total principal amount	283,947	19.2 %	235,788	20.0 %	48,159	20.4			
Variable-rate (non-capped)									
Due in 1 year or less	430,162	29.1 %	261,879	22.2 %	168,283	64.3			
Due after 1 year through 3 years	25,690	1.7 %	19,605	1.7 %	6,085	31.0			
Due after 3 years through 5 years	728	_	778	0.1 %	(50)	(6.4			
Due after 5 years through 15 years	100	_	100	_	_	_			
Thereafter	_	_	_	_	_	_			
Total principal amount	456,680	30.8 %	282,362	24.0 %	174,318	61.7			
Step-up/step-down, callable									
Due in 1 year or less	3,979	0.3 %	7,276	0.6 %	(3,297)	(45.3			
Due after 1 year through 3 years	9,839	0.7 %	9,507	0.8 %	332	3.5			
Due after 3 years through 5 years	11,670	0.8 %	14,271	1.2 %	(2,601)	(18.2			
Due after 5 years through 15 years	6,261	0.4 %	6,698	0.6 %	(437)	(6.5			
Thereafter	_	<u> </u>	_	_	_	_			
Total principal amount	31,749	2.2 %	37,752	3.2 %	(6,003)	(15.9			
Other			,		(-,,	,			
Due in 1 year or less	6,625	0.5 %	5,145	0.4 %	1,480	28.8			
Due after 1 year through 3 years	3,975	0.3 %	1,244	0.1 %	2,731	219.5			
Due after 3 years through 5 years	3,113	0.2 %	3,963	0.3 %	(850)	(21.4			
Due after 5 years through 15 years	215	_	215	_	_	(==:-			
Thereafter		_			_	_			
Total principal amount	13,928	1.0 %	10,567	0.8 %	3,361	31.8			
Total principal amount consolidated bonds	957,391	64.7 %	712,177	60.4 %	245,214	34.4			
Total principal amount	1,477,668	100.0 %	1,181,742	100.0 %		25.0			
Other adjustments, net(1)	(18,553)	100.0 /8	(20,312)	100.0 %	233,320	23.0			
Other aujustinents, net(1)	(10,333)		(20,512)						

⁽¹⁾ Consists of hedging and fair value option valuation adjustments, unamortized premiums and discounts, and combining adjustments.

Table 14 presents cash flows related to consolidated obligations. During the three months ended March 31, 2023, proceeds exceeded payments, resulting in higher consolidated obligations outstanding compared to December 31, 2022. The volume of both net proceeds and total payments of consolidated obligations increased during the three months ended March 31, 2023, compared to the three months ended March 31, 2022, driven by advance activity.

Table 14 - Net Proceeds and Payments for Consolidated Obligations

(dollars in millions)

	_		Thre	ee Mo	nths Ended March	1 31 ,	
			2023		2022		Change
Net proceeds from issuance of consolidated obligations							
Discount notes	\$	5	1,555,503	\$	1,014,310	\$	541,193
Bonds	_		431,073		102,134		328,939
Net proceeds			1,986,576		1,116,444	\$	870,132
Payments for maturing and retiring consolidated obligations							
Discount notes			1,507,456		983,206	\$	524,250
Bonds	_		185,696		86,695		99,001
Total payments			1,693,152		1,069,901	\$	623,251
Net change	\$	5	293,424	\$	46,543		

Consolidated bonds often have investor-determined features. The decision to issue a consolidated bond using a particular structure is based on the desired amount of funding and the ability of the FHLBank(s) receiving the proceeds of the consolidated bond issued to hedge the risks. This strategy of issuing consolidated obligations while simultaneously entering into derivative transactions enables an FHLBank to offer a wider range of attractively-priced advances to its members and may allow an FHLBank to reduce its funding costs. The continued attractiveness of this strategy depends on yield relationships between the FHLBanks' consolidated obligations and the derivatives markets. If conditions change, an FHLBank may alter the types or terms of the consolidated obligations that it issues. The increase in funding alternatives available to the FHLBanks through negotiated debt/ swap transactions is beneficial to the FHLBanks because it may diversify the investor base, reduce funding costs, and/or provide additional asset/liability management tools.

Table 15 presents the bond types the FHLBanks issued for their bond funding needs. The types of consolidated bonds issued can fluctuate based on comparative changes in their cost levels, supply and demand conditions, advance demand, and the FHLBanks' individual balance sheet management strategies. During the three months ended March 31, 2023, the total issuance of consolidated bonds increased compared to the three months ended March 31, 2022, in line with the increase in demand for advances. In addition, during the three months ended March 31, 2023, investors continued to prefer short-term variable-rate consolidated bonds.

Table 15 - Percentage of Total Consolidated Bonds Issued by Bond Type

	Three Months End	ed March 31,
	2023	2022
Single-index, variable-rate(1)	76.1 %	59.9 %
Fixed-rate, callable	14.4 %	23.8 %
Fixed-rate, non-callable	9.4 %	7.9 %
Step-up/step-down(2)	0.1 %	8.4 %
Total	100.0 %	100.0 %

⁽¹⁾ During the three months ended March 31, 2023 and 2022, all single-index variable-rate consolidated bonds issued were indexed to SOFR.

⁽²⁾ Primarily consists of callable step-up bonds.

Deposits

The FHLBanks offer demand and overnight deposit programs to members and to qualifying non-members. In addition, certain FHLBanks offer short-term interest-bearing deposit programs to members, and in certain cases, to qualifying non-members. Figure 17 presents deposits for the most recent five quarters.

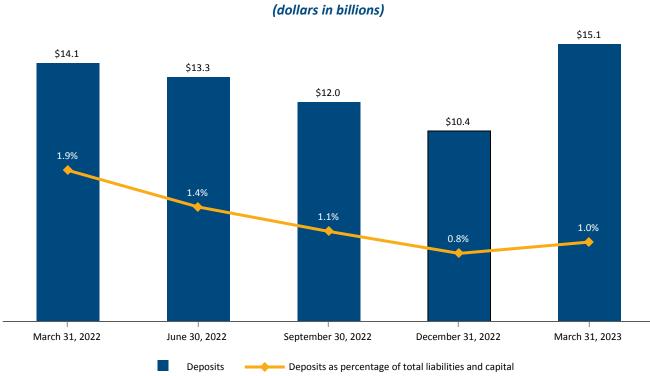


Figure 17 - Deposits (dollars in billions)

Deposits represent a relatively small portion of the FHLBanks' funding, totaling \$15.1 billion at March 31, 2023, an increase of \$4.8 billion, or 46%, from \$10.4 billion at December 31, 2022. All FHLBank deposits are uninsured and deposit balances vary depending on market factors, such as the attractiveness of the FHLBanks' deposit pricing relative to the rates available on alternative money market instruments, FHLBank members' investment preferences with respect to the maturity of their investments, and FHLBank members' liquidity. Interest-bearing demand and overnight deposits represented 97% and 96% of deposits at March 31, 2023 and December 31, 2022, with the remaining deposits primarily being term deposits and non-interest-bearing deposits. Interest-bearing demand and overnight deposits pay interest based on a daily interest rate. Term deposits pay interest based on a fixed rate determined at the issuance of the deposit.

Capital

GAAP capital consists of capital stock, retained earnings, and accumulated other comprehensive income (loss). Figure 18 presents GAAP capital and the GAAP capital-to-assets ratio for the most recent five quarters.

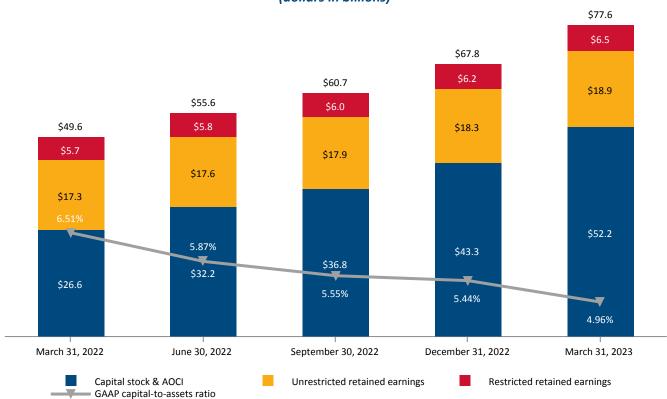


Figure 18 - GAAP Capital (dollars in billions)

Table 16 - Total Capital and Capital-to-Assets Ratios

	M	arch 31, 2023	Dec	ember 31, 2022	Change
Capital stock	\$	53,362	\$	44,006	\$ 9,356
Retained earnings:					
Unrestricted		18,854		18,322	532
Restricted(1)		6,534		6,232	302
Total retained earnings		25,388		24,554	834
AOCI		(1,175)		(753)	(422)
Total GAAP capital		77,575		67,807	9,768
Exclude: AOCI		1,175		753	422
Add: Mandatorily redeemable capital stock		798		708	90
Combined regulatory capital(2)	\$	79,548	\$	69,268	\$ 10,280
Total assets	\$	1,564,170	\$	1,247,247	\$ 316,923
GAAP capital-to-assets ratio		4.96 %		5.44 %	(0.48)%
Regulatory capital-to-assets ratio(3)		5.09 %		5.55 %	(0.46)%

⁽¹⁾ Restricted retained earnings was established through the Capital Agreement, as amended, and is intended to enhance the capital position of each FHLBank. (See <u>Note 9-Capital</u> to the accompanying combined financial statements for additional information about the Capital Agreement and restricted retained earnings.)

⁽²⁾ Regulatory capital requirements apply to individual FHLBanks, and the combined amounts are for analysis only. The sum of the individual FHLBank regulatory capital amounts does not agree to the combined regulatory capital due to combining adjustments.

⁽³⁾ The regulatory capital-to-assets ratio is calculated based on the FHLBanks' combined regulatory capital as a percentage of combined total assets. (See <u>Note 9 - Capital</u> to the accompanying combined financial statements for a definition and discussion of regulatory capital.)

GAAP Capital. Total GAAP capital was \$77.6 billion at March 31, 2023, an increase of \$9.8 billion, or 14%, from \$67.8 billion at December 31, 2022, due primarily to an increase in capital stock. The GAAP capital-to-assets ratio was 4.96% at March 31, 2023, a decrease of 48 basis points from 5.44% at December 31, 2022.

Capital Stock. Capital stock was \$53.4 billion at March 31, 2023, an increase of \$9.4 billion, or 21%, from \$44.0 billion at December 31, 2022, due principally to the net issuance of activity-based capital stock, driven by the increase in advances.

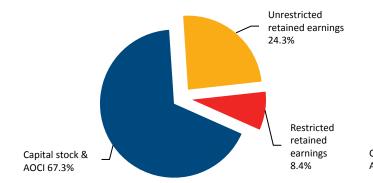
Retained Earnings. Retained earnings grew to \$25.4 billion at March 31, 2023, an increase of \$0.8 billion, or 3%, from \$24.6 billion at December 31, 2022, resulting principally from net income of \$1.5 billion, partially offset by dividends of \$0.7 billion. Unrestricted retained earnings were \$18.9 billion at March 31, 2023, an increase of \$0.5 billion, or 3%, from \$18.3 billion at December 31, 2022. Restricted retained earnings were \$6.5 billion at March 31, 2023, an increase of \$0.3 billion, or 5%, from \$6.2 billion at December 31, 2022.

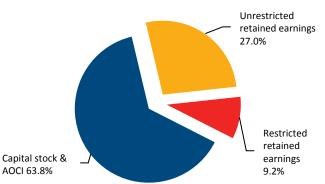
Accumulated Other Comprehensive Income (Loss). AOCI was a loss of \$1.2 billion at March 31, 2023, compared to a loss of \$0.8 billion at December 31, 2022, primarily consisting of net unrealized losses on MBS classified as AFS securities.

Figures 19 and 20 present the components of capital as a percentage of total GAAP capital at March 31, 2023 and December 31, 2022.

Figure 19 - Capital Components as a Percentage of Total GAAP Capital at March 31, 2023

Figure 20 - Capital Components as a Percentage of Total GAAP Capital at December 31, 2022





Regulatory Capital. Combined regulatory capital was \$79.5 billion at March 31, 2023, an increase of \$10.3 billion, or 15%, from \$69.3 billion at December 31, 2022, due primarily to an increase in capital stock. The regulatory capital-to-assets ratio was 5.09% at March 31, 2023, a decrease of 46 basis points from 5.55% at December 31, 2022.

Combined Results of Operations

Net Income

The primary source of each FHLBank's earnings is net interest income, which is the interest income on advances, mortgage loans, and investments, less the interest expense on consolidated obligations, deposits, and mandatorily redeemable capital stock. The expenses of the FHLBanks, other than interest expense, primarily consist of employee compensation and benefits, other operating expenses, and Affordable Housing Program assessments. The FHLBanks may also recognize non-interest gains and losses, such as gains and losses on derivatives and

hedging activities and gains and losses on investment securities. Due to the FHLBanks' cooperative structure, the FHLBanks generally earn a narrow net interest spread. Accordingly, the FHLBanks' net income is relatively low compared to total assets and total liabilities. Figure 21 presents net income, return on average assets, and return on average equity for the most recent five quarters.

\$1.510 \$1,140 \$917 8.61% \$607 7.03% \$502 6.28% 4.56% 4.05% 0.38% 0.45% 0.36% 0.27% 0.28% March 31, 2022 June 30, 2022 September 30, 2022 December 31, 2022 March 31, 2023 Net income Return on average assets Return on average equity

Figure 21 - Net Income (dollars in millions)

Net income was \$1,510 million for the three months ended March 31, 2023, an increase of 201% compared to the three months ended March 31, 2022, resulting primarily from higher net interest income.

Table 17 - Changes in Net Income

(dollars in millions)

	т	hree Months E		Change		
		2023	2022	2023 vs. 2022		
Net interest income after provision (reversal) for credit losses	\$	2,019	\$ 972	\$	1,047	
Non-interest income (loss)		68	(62)		130	
Non-interest expense		408	352		56	
Affordable Housing Program assessments		169	56		113	
Net income	\$	1,510	\$ 502	\$	1,008	

Net Interest Income after Provision (Reversal) for Credit Losses

The primary source of each FHLBank's earnings is net interest income, which is the interest income on advances, mortgage loans, and investments, less the interest expense on consolidated obligations, deposits, and mandatorily redeemable capital stock. The net interest income of the FHLBanks is affected by several external factors, including changes in interest rates, liquidity levels and demand for advances from member institutions, the general state of the economy, and fiscal and monetary policies. The future level of net interest income of the FHLBanks will depend, in part, upon the level and volatility of interest rates, demand for advances, cost of consolidated obligations, changes in fiscal and monetary policies, as well as the state of the overall U.S. economy and financial markets. Figure 22 presents net interest income after provision (reversal) for credit losses, net interest margin, and net interest spread for the most recent five quarters.

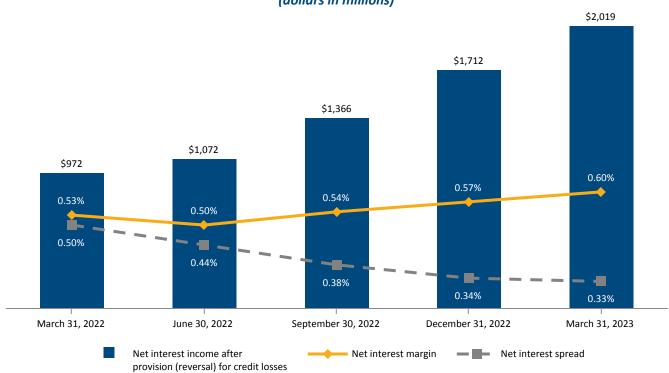


Figure 22 - Net Interest Income after Provision (Reversal) for Credit Losses (dollars in millions)

Net interest income after provision (reversal) for credit losses was \$2,019 million for the three months ended March 31, 2023, an increase of 108% compared to the three months ended March 31, 2022.

Table 18 - Net Interest Income after Provision (Reversal) for Credit Losses (dollars in millions)

	Three Months Ended March 31,				Change
		2023	2022	20	023 vs. 2022
Interest income					
Advances	\$	10,808	\$ 634	\$	10,174
Investments and other		4,640	599		4,041
Mortgage loans held for portfolio		441	382		59
Total interest income		15,889	1,615		14,274
Interest expense					
Consolidated obligations - Discount notes		5,304	87		5,217
Consolidated obligations - Bonds		8,431	549		7,882
Total consolidated obligations		13,735	636		13,099
Deposits and mandatorily redeemable capital stock		135	7		128
Total interest expense		13,870	643		13,227
Net interest income		2,019	972		1,047
Provision (reversal) for credit losses		_	_		_
Net interest income after provision (reversal) for credit losses	\$	2,019	\$ 972	\$	1,047

Table 19 presents average balances of and annualized average yields/rates on the major categories of interestearning assets and interest-bearing liabilities, net interest spread, and net interest margin. Due to the FHLBanks' cooperative structure, the FHLBanks generally earn a narrow net interest spread.

Table 19 - Analysis of Interest Income/Expense and Average Yield/Rate

				Three Months E	nded	March 31,			
			2023					2022	
	Av	erage Balance	rest Income/ Expense	Average Yield/Rate	A	verage Balance	In	terest Income/ Expense	Average Yield/Rate
Assets									
Interest-bearing deposits and other	\$	38,088	\$ 452	4.81 %	\$	12,257	\$	5	0.17 %
Securities purchased under agreements to resell		50,255	568	4.58 %		23,535		7	0.12 %
Federal funds sold		104,325	1,176	4.57 %		72,426		22	0.12 %
Investment securities(1)(2)		206,960	2,444	4.79 %		189,927		565	1.21 %
Advances		903,064	10,808	4.85 %		394,779		634	0.65 %
Mortgage loans(3)		56,098	441	3.19 %		55,537		382	2.79 %
Total interest-earning assets		1,358,790	15,889	4.74 %		748,461		1,615	0.88 %
Other non-interest-earning assets		15,127				7,046			
Fair-value adjustment on investment securities(2)		(588)				1,661			
Total assets	\$	1,373,329			\$	757,168			
Liabilities and Capital Consolidated obligations -									
Discount notes	\$	481,959	5,304	4.46 %	\$	233,100		87	0.15 %
Consolidated obligations - Bonds		780,889	8,431	4.38 %		446,350		549	0.50 %
Deposits and mandatorily redeemable capital stock		14,066	135	3.89 %		15,849		7	0.18 %
Total interest-bearing liabilities		1,276,914	13,870	4.41 %		695,299		643	0.38 %
Non-interest-bearing liabilities		25,298				11,634			
Total liabilities		1,302,212				706,933			
Capital		71,117				50,235			
Total liabilities and capital	\$	1,373,329			\$	757,168			
Net interest income			\$ 2,019				\$	972	
Net interest spread				0.33 %					0.50 %
Net interest margin (annualized)				0.60 %					0.53 %
Total interest-earning assets to total interest-bearing liabilities		106.41 %				107.65 %			

⁽¹⁾ Investment securities consist of Trading, AFS, and HTM securities.

⁽²⁾ The average balances of AFS securities and HTM securities are reflected at amortized cost. (See <u>Note 3 - Investments</u> to the accompanying combined financial statements for additional information.)

⁽³⁾ Non-accrual loans are included in the average balances used to determine average yield/rate.

Changes in both average interest rates and average balances of interest-earning assets and interest-bearing liabilities have a direct influence on changes in net interest income, net interest margin, and net interest spread. Table 20 presents changes in interest income and interest expense due to rate-related and volume-related factors. Changes in interest income and interest expense not identifiable as either rate-related or volume-related, but rather attributable to both rate and volume changes, have been allocated to the rate and volume categories based on the proportion of the absolute value of the rate and volume changes.

Table 20 - Rate and Volume Analysis

(dollars in millions)

		Thr	ee Mon	ths Ended March	ı 31,	
			20	23 vs. 2022		
	v	olume		Rate		Total
Interest Income						
Interest-bearing deposits and other	\$	33	\$	414	\$	447
Securities purchased under agreements to resell		17		544		561
Federal funds sold		13		1,141		1,154
Investment securities(1)		55		1,824		1,879
Advances		1,691		8,483		10,174
Mortgage loans		4		55		59
Total interest income	-	1,813		12,461		14,274
Interest Expense						
Consolidated obligations - Discount notes		187		5,030		5,217
Consolidated obligations - Bonds		694		7,188		7,882
Deposits and mandatorily redeemable capital stock		(1)		129		128
Total interest expense		880		12,347		13,227
Changes in net interest income	\$	933	\$	114	\$	1,047

⁽¹⁾ Investment securities consist of Trading, AFS, and HTM securities.

Net interest income was \$2,019 million for the three months ended March 31, 2023, an increase of 108% compared to the three months ended March 31, 2022. Net interest margin was 0.60% for the three months ended March 31, 2023, an increase of 7 basis points compared to the three months ended March 31, 2022. However, net interest spread was 0.33% for the three months ended March 31, 2023, a decrease of 17 basis points compared to the three months ended March 31, 2022, due primarily to the average rate on interest-bearing liabilities rising more quickly than the increase in the average yield on interest-earning assets in the higher interest-rate environment.

- Interest income was \$15,889 million for the three months ended March 31, 2023, an increase of \$14,274 million compared to the three months ended March 31, 2022, driven primarily by an increase in the average yield on interest-earning assets. The average yield on interest-earning assets was 4.74% for the three months ended March 31, 2023, an increase of 386 basis points from 0.88% for the three months ended March 31, 2022. Although significantly higher interest rates were the primary factor affecting interest income, the higher average balance of advances was also a contributing factor. The average balance of advances was \$903.1 billion for the three months ended March 31, 2023, an increase of 129% compared to the three months ended March 31, 2022.
- Interest expense was \$13,870 million for the three months ended March 31, 2023, an increase of \$13,227 million compared to the three months ended March 31, 2022, driven primarily by the higher average rate on consolidated obligations. The average rate on consolidated obligations was 4.41% for the three months ended March 31, 2023, an increase of 403 basis points from 0.38% for the three months ended March 31, 2022. Although significantly higher interest rates were the primary factor affecting interest expense, the higher average balance of consolidated obligations was also a contributing factor. The average balance of

consolidated obligations was \$1,262.8 billion for the three months ended March 31, 2023, an increase of 86% compared to the three months ended March 31, 2022.

Factors Affecting Net Interest Income.

Advances. Interest income on advances was \$10,808 million for the three months ended March 31, 2023, an increase of \$10,174 million compared to the three months ended March 31, 2022, resulting from increases in both the average yield on, and the average balance of, advances. The average yield on advances was 4.85% for the three months ended March 31, 2023, an increase of 420 basis points from 0.65% for the three months ended March 31, 2022. The increase in the average yield on advances was the result of higher interest rates on advances and the effect of derivatives and hedging activities on interest income from advances, driven by the higher interest-rate environment, as well as an increase in prepayment fees on advances. (See *Table 21* for additional information regarding the effect of derivatives and hedging activities on net interest income.) The average balance of advances was \$903.1 billion for the three months ended March 31, 2023, an increase of 129% compared to the three months ended March 31, 2022, driven by continued demand by depository members for liquidity. In particular, in March 2023, member demand for advances accelerated at times in response to the stress placed on the banking industry and financial markets resulting from the financial difficulties experienced by some depository institutions.

Mortgage Loans. Interest income on mortgage loans was \$441 million for the three months ended March 31, 2023, an increase of 15% compared to the three months ended March 31, 2022, resulting primarily from an increase in the average yield on mortgage loans. The average yield on mortgage loans was 3.19% for the three months ended March 31, 2023, an increase of 40 basis points from 2.79% for the three months ended March 31, 2022, resulting primarily from higher interest rates on mortgage loans and lower premium amortization due to lower loan prepayment activity in the higher interest-rate environment.

Total Investments. Interest income on total investments was \$4,640 million for the three months ended March 31, 2023, an increase of \$4,041 million compared to the three months ended March 31, 2022, resulting primarily from an increase in the average yield on total investments. The average yield on total investments was 4.71%, an increase of 390 basis points from 0.81% for the three months ended March 31, 2022. The increase in the average yield on total investments was the result of higher interest rates on investments, in part driven by higher yields on short-term investments funded by member capital and the effect of derivatives and hedging activities on interest income from investment securities in the higher interest-rate environment, as well as the reduction in amortization of premiums on MBS due to lower prepayments. (See *Table 21* for additional information regarding the effect of derivatives and hedging activities on net interest income and *Liquidity and Capital Resources* for more discussion regarding the FHLBanks' liquidity requirements.)

Consolidated Obligations. Interest expense on consolidated obligations was \$13,735 million for the three months ended March 31, 2023, an increase of \$13,099 million compared to the three months ended March 31, 2022, driven primarily by the higher average rate on consolidated obligations. The average rate on consolidated obligations was 4.41% for the three months ended March 31, 2023, an increase of 403 basis points from 0.38% for the three months ended March 31, 2022. The increase in the average rate on consolidated obligations was due primarily to higher interest rates on consolidated bonds and consolidated discount notes and the effect of derivatives and hedging activities on interest expense from consolidated bonds in the higher interest-rate environment. (See *Table 21* for additional information regarding the effect of derivatives and hedging activities on net interest income.) Although significantly higher interest rates were the primary factor affecting interest expense, the higher average balance of consolidated obligations was also a contributing factor. The average balance of consolidated obligations was \$1,262.8 billion for the three months ended March 31, 2023, an increase of 86% compared to the three months ended March 31, 2022, principally resulting from an increase in the average balance of advances.

Effect of Derivatives and Hedging Activities on Net Interest Income.

Net interest income includes components related to the effect of derivatives and hedging activities resulting from the FHLBanks' hedging strategies. If a hedging relationship is designated and qualifies for hedge accounting treatment, the net interest settlements of interest receivables or payables related to derivatives designated in fair value or cash flow hedge relationships are recognized as adjustments to interest income or expense of the designated hedged item. When fair value hedge accounting is discontinued, the cumulative basis adjustment on the hedged item is amortized or accreted into net interest income over the remaining life of the hedged item using a level-yield methodology. In addition, changes in fair value of the derivative and the hedged item for designated fair value hedges are recorded in net interest income in the same line as the hedged item. (See <u>Note 6 - Derivatives and Hedging Activities</u> to the accompanying combined financial statements for additional information on the effect of derivatives and hedging activities.) Table 21 presents the effect of derivatives and hedging activities on net interest income.

Table 21 - Effect of Derivatives and Hedging Activities on Net Interest Income

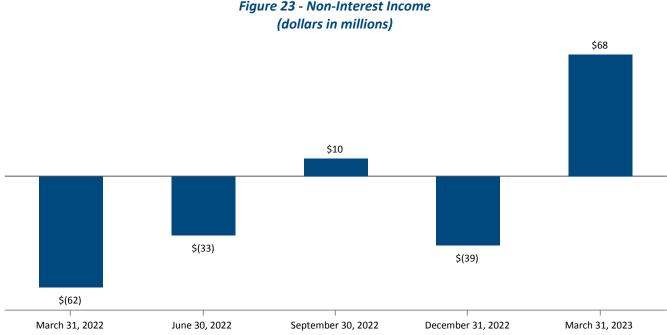
				Three Mo	nths End	ed f	March 31, 2023			
	Advances	Investment Consolidated dvances Securities Mortgage Loans(1) Bonds			Consolidated Discount Notes		Total			
Net interest income										
Amortization and accretion of hedging activities in net interest income	\$ 12	\$	(44)	\$	_	\$	(79)	\$	(1)	\$ (112)
Net gains (losses) on derivatives and hedged items	(272)		(30)		_		58		_	(244)
Net interest settlements on derivatives	1,094		699				(1,839)		1	(45)
Total effect on net interest income	\$ 834	\$	625	\$	_	\$	(1,860)	\$		\$ (401)

				Three	Months End	ed M	larch 31, 2022						
А	Advances		Advances Investment Securities			Mortgage Loans(1)		Consolidated Bonds		Consolidated Discount Notes			Total
\$	(54)	\$	(75)	\$	(3)	\$	(1)	\$	_	\$	(133)		
	69		54		_		14		2		139		
	(380)		(294)		_		408		(12)		(278)		
\$	(365)	\$	(315)	\$	(3)	\$	421	\$	(10)	\$	(272)		
	\$ \$	\$ (54) 69 (380)	\$ (54) \$ 69 (380)	\$ (54) \$ (75) 69 54 (380) (294)	Investment Securities Mortgate	Investment Securities Mortgage Loans(1)	Securities Mortgage Loans(1)	Advances Securities Mortgage Loans(1) Bonds \$ (54) \$ (75) \$ (3) \$ (1) 69 54 - 14 (380) (294) - 408	Securities Mortgage Loans(1) Consolidated Bonds Document Securities Mortgage Loans(1) Consolidated Bonds Document Securities Securities Mortgage Loans(1) Securities Securitie	Securities Mortgage Loans(1) Consolidated Discount Notes	Nortgage Loans(1) Consolidated Bonds Consolidated Discount Notes		

⁽¹⁾ Includes standalone mortgage delivery commitments.

Non-Interest Income

Non-interest income consists of realized and unrealized gains (losses) on investment securities, derivatives activities, financial instruments held under fair value option, and other non-interest-earning activities. Figure 23 presents non-interest income for the most recent five quarters.



Non-interest income was a gain of \$68 million for the three months ended March 31, 2023, resulting primarily

from changes in the fair value of investment securities, derivatives, and financial instruments held under fair value option, driven by changes in interest rates. Non-interest income was a loss of \$62 million for the three months ended March 31, 2022.

Table 22 - Changes in Non-Interest Income

(dollars in millions)

	 Thr	ee Mon	ths Ended March	1 31 ,	
	 2023		2022		Change
Net gains (losses) on investment securities	\$ 184	\$	(480)	\$	664
Net gains (losses) on financial instruments held under fair value option	(148)		72		(220)
Net gains (losses) on derivatives	(68)		283		(351)
Other, net	100		63		37
Total non-interest income (loss)	\$ 68	\$	(62)	\$	130

Gains (Losses) on Investment Securities. The FHLBanks classify investment securities as AFS, HTM, or trading securities. The realized gains (losses) from the sale of AFS and HTM securities are recognized in current period earnings. Trading securities are recorded at fair value, with changes in fair value reflected in non-interest income. A number of factors affect the fair value of investment securities, such as the current and projected levels of interest rates, credit spreads, and volatility, as well as the passage of time. The net gain on investment securities was \$184 million for the three months ended March 31, 2023, compared to a net loss of \$480 million for the three months ended March 31, 2022, due primarily to fair value gains on U.S. Treasury obligations classified as trading securities, driven by changes in interest rates.

Gains (Losses) on Financial Instruments Held under Fair Value Option. Certain FHLBanks elect the fair value option for certain financial assets and certain financial liabilities, and these FHLBanks recognize the changes in fair value on these assets and liabilities as unrealized gains and losses in current period earnings. The use of the fair value option allows these FHLBanks to mitigate potential income statement volatility that can arise when an economic derivative is adjusted for changes in fair value, but the related hedged item is not. The net loss on financial instruments held under fair value options was \$148 million for the three months ended March 31, 2023, compared to a net gain of \$72 million for the three months ended March 31, 2022. The net loss for the three months ended March 31, 2023, resulted primarily from changes in the fair value of consolidated obligations held under the fair value option, partially offset by changes in the fair value of advances held under the fair value option. (See *Table 23* and *Note 11 - Fair Value* to the accompanying combined financial statements for additional information regarding the gains (losses) on financial instruments held under fair value option.)

Gains (Losses) on Derivatives. Gains (losses) on derivatives are primarily comprised of the change in fair value of economic hedges, which are derivatives hedging specific or non-specific underlying assets, liabilities, or firm commitments that do not qualify, or were not designated, for fair value or cash flow hedge accounting. Gains (losses) on derivatives fluctuate with changes in market conditions and are based on a wide range of factors, including current and projected levels of interest rates, credit spreads, and volatility, as well as the passage of time.

The net loss on derivatives was \$68 million for the three months ended March 31, 2023, compared to a net gain of \$283 million for the three months ended March 31, 2022. The net loss for the three months ended March 31, 2023, was due primarily to fair value losses on economic hedges which hedge investment securities and advances, partially offset by fair value gains on economic hedges which hedge consolidated obligations. Table 23 presents the effect of derivatives on non-interest income.

Table 23 - Effect of Derivatives on Non-Interest Income

					Т	hree	Months End	led N	March 31, 202	23				
	Adva	inces	stment urities	ľ	Mortgage Loans	Co	onsolidated Bonds		onsolidated Discount Notes	Bala	nce Sheet	Pos	ermediary itions and Other	Total
Net gains (losses) on derivatives														
Gains (losses) related to derivatives not designated as hedging instruments	\$	(53)	\$ (80)	\$	(15)	\$	36	\$	62	\$	_	\$	5	\$ (45)
Price alignment amount		_	_		_				_		_		(23)	(23)
Total net gains (losses) on derivatives		(53)	(80)		(15)		36		62		_		(18)	(68)
Net gains (losses) on trading securities(1)		_	181		_		_		_		_		_	181
Net gains (losses) on financial instruments under fair value option		25	 				(82)		(91)					(148)
Total effect on non-interest income	\$	(28)	\$ 101	\$	(15)	\$	(46)	\$	(29)	\$		\$	(18)	\$ (35)

	Three Months Ended March 31, 2022													
	Advances		Investment Securities		Mortgage Loans		Consolidated Bonds		onsolidated Discount Notes	Balance Sheet	P	Intermediary Positions and Other		Total
Net gains (losses) on derivatives														
Gains (losses) related to derivatives not designated as hedging instruments	\$ 9	98	\$ 383	\$	5	\$	(158)	\$	(27)	\$ 2	\$	(20)	\$	283
Price alignment amount							_							_
Total net gains (losses) on derivatives		98	383		5		(158)		(27)	2		(20)		283
Net gains (losses) on trading securities(1)		_	(466)				_		_	_		_		(466)
Net gains (losses) on financial instruments under fair value option	(8	89)			(3)		133		31			_		72
Total effect on non-interest income	\$	9	\$ (83)	\$	2	\$	(25)	\$	4	\$ 2	\$	(20)	\$	(111)

⁽¹⁾ Includes only those gains (losses) on trading securities that have been economically hedged.

Non-Interest Expense

Non-interest expense consists of compensation and benefits, other operating expenses, FHFA expenses, Office of Finance expenses, and other expenses. Figure 24 presents non-interest expense for the most recent five quarters.

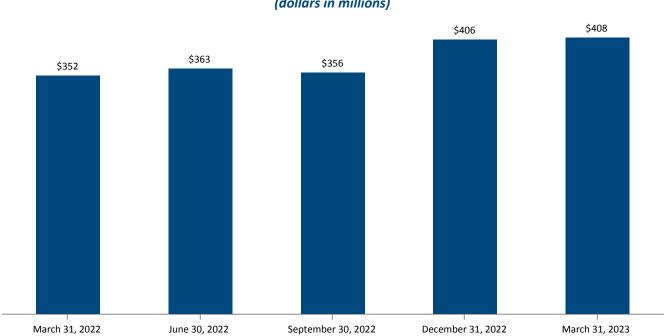


Figure 24 - Non-Interest Expense (dollars in millions)

Non-interest expense was \$408 million for the three months ended March 31, 2023, an increase of 16% compared to the three months ended March 31, 2022, due primarily to higher compensation and benefits, higher other operating expenses, as well as higher other expenses. Certain FHLBanks expensed voluntary contributions to housing and community investment programs in the first quarter of 2023, which are included in non-interest expense. (See <u>Affordable Housing Program (AHP) Assessments</u> for additional information.)

Table 24 - Changes in Non-Interest Expense

(dollars in millions)

	Three Months Ended March 31,								
	2023			2022	Change				
Compensation and benefits	\$	215	\$	184	\$	31			
Other operating expenses		124		111		13			
Federal Housing Finance Agency		25		23		2			
Office of Finance		20		18		2			
Other expenses		24		16		8			
Total non-interest expense	\$	408	\$	352	\$	56			

Affordable Housing Program (AHP) Assessments

Each FHLBank recognizes AHP assessment expense equal to the greater of 10% of its annual income subject to assessment, or the prorated sum required to ensure the aggregate contribution by the FHLBanks is no less than \$100 million for each year. For purposes of the AHP calculation, each FHLBank's income subject to assessment is defined as the individual FHLBank's net income before assessments, plus interest expense related to mandatorily redeemable capital stock. (See *Legislative and Regulatory Developments - FHFA's Review and Analysis of the FHLBank System* on page 101 of the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for information about potential changes that may affect the FHLBanks' Affordable Housing and Community Investment Cash Advance Programs.)

In addition to required AHP assessments under the FHLBank Act, an FHLBank's board of directors may elect to make voluntary contributions to its AHP or other community investment programs. In connection with that, and in recognition that additional funding would be beneficial in meeting community needs in affordable housing as well as business and community development, the FHLBanks are either already making additional voluntary contributions, or are in the process of increasing their voluntary contribution levels. Certain FHLBanks expensed voluntary contributions to housing and community investment programs, which totaled \$16 million during the three months ended March 31, 2023. These voluntary contribution expenses by the FHLBanks are included in non-interest expense on the Combined Statements of Income.

Figure 25 presents AHP assessments for the most recent five quarters.

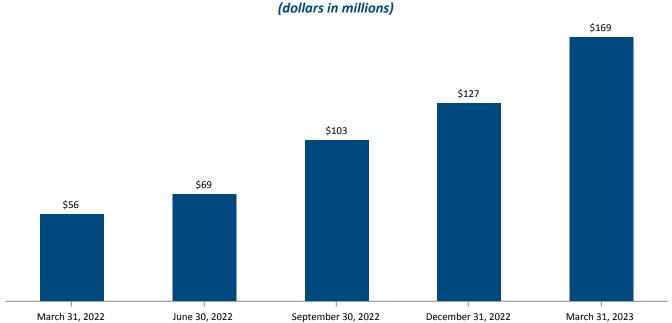


Figure 25 - Affordable Housing Program Assessments

(dollars in millions)

Comprehensive Income

Comprehensive income is comprised of net income and other comprehensive income. Other comprehensive income is reported on the Combined Statement of Comprehensive Income and presents the net change in the accumulated other comprehensive income (loss) balances.

Other comprehensive income was a loss of \$422 million for the three months ended March 31, 2023, compared to a loss of \$862 million for the three months ended March 31, 2022. The loss in other comprehensive income for the three months ended March 31, 2023, primarily consisted of net unrealized losses on MBS classified as AFS securities.

Table 25 - Comprehensive Income

(dollars in millions)

		Three Months Ended March 31,						
	2023				2022	Change		
Net income	,	\$	1,510	\$	502	\$	1,008	
Other comprehensive income								
Changes in fair value of AFS securities								
Net unrealized gains (losses) on AFS securities			(373)		(1,091)		718	
Changes in non-credit other-than-temporary impairment losses								
Accretion of non-credit portion on HTM securities			_		1		(1)	
Net unrealized gains (losses) relating to hedging activities			(72)		231		(303)	
Other			23		(3)		26	
Total other comprehensive income (loss)			(422)		(862)		440	
Comprehensive income (loss)		\$	1,088	\$	(360)	\$	1,448	

Changes in Fair Value of AFS Securities. Changes in the fair value of AFS securities are recorded in other comprehensive income. The net change in unrealized gains (losses) on AFS securities is due primarily to changes in interest rates, credit spreads, the passage of time, and volatility.

Net Unrealized Gains (Losses) Relating to Hedging Activities. Net unrealized gains (losses) relating to hedging activities is comprised of changes in the fair value of a derivative that is designated and qualifies as a cash flow hedge until earnings are affected by the variability of the cash flows of the hedged transaction and the amounts are reclassified to interest income or interest expense. The FHLBanks' gains (losses) on hedging activities fluctuate with volatility in the overall interest-rate environment and with the positions taken by the FHLBanks to hedge their risk exposure using cash flow hedges.

Liquidity and Capital Resources

Liquidity

Each FHLBank is required to maintain liquidity in accordance with the FHLBank Act, FHFA regulations and guidance, and policies established by its management and board of directors. Each FHLBank seeks to be in a position to meet the credit and liquidity needs of its members and to meet all current and future financial commitments of the FHLBank. Each FHLBank seeks to achieve this objective by managing liquidity positions to maintain stable, reliable, and cost-effective sources of funds while taking into account market conditions, member demand, and the maturity profile of the assets and liabilities of the FHLBank.

The FHLBanks may not be able to predict future trends in member credit needs because member credit needs are driven by complex interactions among a number of factors, including members' mortgage loan originations, other loan portfolio activity, deposit levels, and the attractiveness of advances compared to other wholesale borrowing alternatives. Each FHLBank monitors current trends and anticipates future debt issuance needs to fund its members' credit needs and investment opportunities of the FHLBank. An FHLBank's ability to expand its balance

sheet and corresponding liquidity requirements in response to its members' increased credit needs is correlated to its members' requirements for advances and mortgage loans. Alternatively, in response to reduced member credit needs, an FHLBank may allow its consolidated obligations to mature without replacement, or repurchase and retire outstanding consolidated obligations, allowing its balance sheet to shrink. Over time, the FHLBanks historically have had comparatively stable access to funding through a diverse investor base.

Sources of Liquidity. The FHLBanks' primary sources of liquidity are proceeds from the issuance of consolidated obligations, as well as cash and investment holdings that are primarily high-quality, short-, and intermediate-term financial instruments. The FHLBanks' consolidated obligations are not obligations of the United States and are not guaranteed by the United States, but have historically received the same credit rating as the government bond credit rating of the United States. S&P, Moody's, or other rating organizations could downgrade or upgrade the credit ratings of the U.S. government and GSEs, including the FHLBanks and their consolidated obligations. Investors should note that a rating issued by a nationally recognized statistical rating organization is not a recommendation to buy, sell, or hold securities, and that the ratings may be revised or withdrawn at any time. Investors should evaluate the rating of each nationally recognized statistical rating organization independently. As of April 30, 2023, the FHLBanks' consolidated obligations were rated AA+/A-1+ and Aaa/P-1 (with outlook stable) by S&P and Moody's. Investors should not take the historical or current ratings of the FHLBanks and their consolidated obligations as an indication of future ratings for the FHLBanks or their consolidated obligations.

Other sources of liquidity include advance repayments, payments collected on mortgage loans, proceeds from the issuance of capital stock, and deposits from members. In addition, by law, the Secretary of the Treasury is authorized to purchase up to \$4 billion aggregate principal amount of consolidated obligations of the FHLBanks. This authority may be exercised only if alternative means cannot be effectively employed to permit the FHLBanks to continue to supply reasonable amounts of funds to the mortgage market, and the ability to supply such funds is substantially impaired because of monetary stringency and a high level of interest rates. Any funds borrowed from the U.S. Treasury shall be repaid by the FHLBanks at the earliest practicable date.

Uses of Liquidity. The FHLBanks' primary uses of liquidity are advance originations and consolidated obligation payments. Other uses of liquidity are mortgage loan and investment purchases, dividend payments, and other contractual payments. An FHLBank also maintains liquidity to redeem or repurchase excess capital stock, at its discretion, upon the request of a member or under an FHLBank's capital plan.

See <u>Combined Financial Condition - Advances</u> for advance originations and repayments and <u>Combined Financial</u> <u>Condition - Consolidated Obligations</u> for net proceeds and payments for consolidated obligations.

FHLBank Funding and Debt Issuance. Changes or disruptions in the capital markets could limit the FHLBanks' ability to issue consolidated obligations. During the three months ended March 31, 2023, the FHLBanks maintained continual access to funding. The FHLBanks' funding was generally driven by member demand for advances and was achieved primarily through the issuance of short-term consolidated obligations, primarily variable-rate consolidated bonds and consolidated discount notes during the three months ended March 31, 2023. Average funding spreads of newly-issued consolidated obligations relative to benchmark indices increased during the three months ended March 31, 2023, compared to the three months ended March 31, 2022.

Refinancing Risk and Investor Concentration Risk. There are inherent risks in utilizing short-term funding to support longer-dated assets and the FHLBanks may be exposed to refinancing risk and investor concentration risk. Refinancing risk includes the risk that the FHLBanks could have difficulty rolling over short-term obligations when market conditions change or investor confidence in short-term consolidated obligations declines. In managing and monitoring the amounts of financial assets that require refinancing, the FHLBanks consider their contractual maturities, as well as certain assumptions regarding expected cash flows (i.e., estimated prepayments, embedded call optionality, and scheduled amortizations). Investor concentration risk includes the risk that a market-driven or regulatory disruption to certain investor classes could lead to significant investor outflows causing unfavorable

market conditions for consolidated obligations. As the FHLBanks' balance sheets have expanded over the last year due to member demands and market conditions, the inherent refinancing and investor concentration risks have also increased. For example, as of March 31, 2023, the holding of the FHLBanks' consolidated obligations by taxable money market funds, as a percentage of the total outstanding consolidated obligations, was 45%, compared to 38% at December 31, 2022, based on data from SEC filings by registered money market funds. The holdings of the FHLBanks' consolidated obligations by taxable money market funds represented 12% of these funds' assets under management at March 31, 2023, compared to 9% at December 31, 2022, based on data from SEC filings by registered money market funds. While demand from this investor class has benefited the FHLBanks' ability to access short-term funding at attractive costs, this demand could change over time. (See the notes to the accompanying combined financial statements for additional information regarding contractual maturities of certain financial assets and financial liabilities and *Risk Factors - Liquidity Risk* on pages 36 to 37 of the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for more information on refinancing risk and investor concentration risk.)

Interest-Rate Risk. The FHLBanks may use a portion of the short-term consolidated obligations issued to fund both short- and long-term variable-rate assets. However, funding longer-term variable-rate assets with shorter-term liabilities generally does not expose the FHLBanks to interest-rate risk because the rates on the variable-rate assets reset similarly to the liabilities (either through rate resets or re-issuance of the obligations). The FHLBanks measure and monitor interest-rate risk with commonly used methods and metrics, which include the calculations of market value of equity, duration of equity, and duration gap. (See *Quantitative and Qualitative Disclosures about Market Risk* for additional discussion and analysis regarding the FHLBanks' sensitivity to interest rate changes and the use of derivatives to manage their exposure to interest-rate risk.)

Asset/Liability Maturity Profile. Each FHLBank is focused on maintaining an adequate amount of liquidity, and the FHLBanks work collectively to manage system-wide liquidity and funding needs. The FHLBanks are committed to prudent risk management practices and jointly monitor the FHLBank system risks, including by tracking the funding gap, which is a measure of the difference in the projected cash flows from their financial assets and financial liabilities. External factors, including FHLBank member borrowing needs, supply and demand in the debt markets, and other factors may affect the amount of liquidity and the balance between the cash flows for financial assets and financial liabilities. However, due to the FHLBanks' status as GSEs, they have traditionally had ready access to funding at relatively favorable rates.

Regulatory Liquidity Requirements. To protect the FHLBanks against temporary disruptions in access to the debt markets in response to a rise in capital markets volatility, the FHFA requires each FHLBank to:

- have available at all times an amount greater than or equal to its members' current deposits invested in advances with maturities not to exceed five years, deposits in banks or trust companies, and obligations of the U.S. Treasury;
- maintain, in the aggregate, unpledged qualifying assets in an amount at least equal to the amount of its participation in total consolidated obligations outstanding; and
- maintain a base case amount of liquidity.

Each FHLBank also maintains a contingency funding plan designed to enable it to address liquidity shortfalls in times of need, such as operational disruptions at an FHLBank and/or the Office of Finance, or short-term capital market disruptions.

During the three months ended March 31, 2023, each of the FHLBanks was in compliance with the FHFA's liquidity requirements, including the FHFA's Advisory Bulletin on liquidity and the FHFA's funding gap guidance for three-month and one-year maturity horizons, except for: three FHLBanks that were each below the specified number of

days of liquidity reserves for one day, one FHLBank that was below the specified number of days of liquidity reserves for two days, one FHLBank that was below the specified number of days of liquidity reserves for three days, and one FHLBank that was below the specified number of days of liquidity reserves for four days, due to unusually large and unforeseen advance demand. Each of these shortfalls was corrected on a timely basis.

Capital Resources

The FHLBanks' ability to expand their balance sheets as member credit needs increase is based, in part, on the capital stock requirements for advances. In addition, FHFA regulations stipulate that each FHLBank must comply with three limits on capital. Although each FHLBank's minimum regulatory capital-to-assets ratio requirement is 4.0%, each FHLBank strives to maintain a level of retained earnings to support its regulatory capital compliance, stable dividend payments to members, and business growth. At March 31, 2023, each FHLBank was in compliance with its statutory minimum capital requirements. In addition, the FHFA issued an Advisory Bulletin to state its supervisory expectations that each FHLBank maintain a ratio of at least two percent of capital stock to total assets. At March 31, 2023, each FHLBank was in compliance with this guidance. (See <u>Note 9 - Capital</u> to the accompanying combined financial statements for additional information regarding minimum regulatory capital requirements.)

Management and the board of directors of each FHLBank review the capital structure of that FHLBank on a periodic basis to ensure the capital structure supports the risk associated with its assets and addresses applicable regulatory and supervisory matters. In addition, an individual FHLBank may, at its discretion, institute a higher capital requirement to meet internally-established thresholds or to address supervisory matters, limit dividend payments, or restrict excess capital stock repurchases as part of its retained earnings policies.

Figure 26 presents the combined regulatory capital ratio and related regulatory classifications applicable to the FHLBanks for each of the last five quarters.

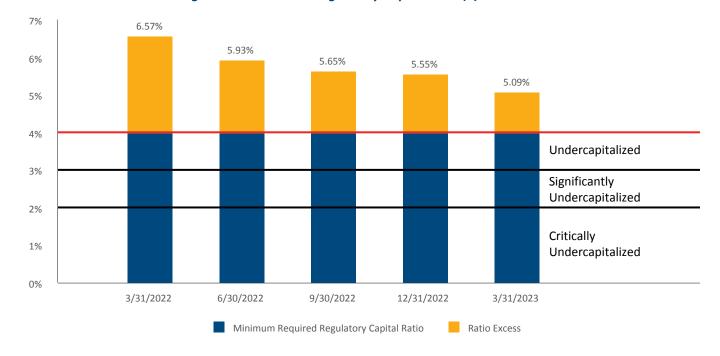


Figure 26 - Combined Regulatory Capital Ratio(1) and Excess

⁽¹⁾ Based on FHFA rules and regulations, regulatory capital requirements apply to individual FHLBanks, and there are no minimum regulatory capital requirements or classifications at a combined level. The combined regulatory capital ratio and related regulatory classifications are for analysis only. The combined regulatory capital ratio is calculated based on the sum of the individual FHLBanks' risk-based capital amounts as a percentage of combined total assets.

Joint Capital Enhancement Agreement. The Joint Capital Enhancement Agreement, as amended (Capital Agreement), is intended to enhance the capital position of each FHLBank. The Capital Agreement provides that each FHLBank will, on a quarterly basis, allocate 20% of its net income to a separate restricted retained earnings account until the balance of that account, calculated as of the last day of each calendar quarter, equals at least one percent of that FHLBank's average balance of outstanding consolidated obligations for the calendar quarter. These restricted retained earnings are not available to pay dividends. Additionally, the Capital Agreement provides that amounts in restricted retained earnings in excess of 150% of an FHLBank's restricted retained earnings minimum (i.e., one percent of that FHLBank's average balance of outstanding consolidated obligations calculated as of the last day of each calendar quarter) may be released from restricted retained earnings. As of March 31, 2023, none of the FHLBanks had restricted retained earnings that exceeded one percent of its average balance of outstanding consolidated obligations.

Critical Accounting Estimates

The preparation of financial statements in accordance with GAAP requires each FHLBank's management to make a number of judgments, estimates, and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities (if applicable), and the reported amounts of income and expense during the reported periods. Although each FHLBank's management believes that its judgments, estimates, and assumptions are reasonable, actual results may differ from these estimates.

In the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, certain accounting estimates and assumptions were identified as critical because they are generally considered by each FHLBank's management to be the most critical to an understanding of its financial statements and the financial data it provides to the Office of Finance for preparing the Combined Financial Reports. These estimates and assumptions consist of those used in conjunction with fair value estimates and derivatives and hedging activities. For a description of accounting policies related to these estimates and assumptions, see *Note 1 - Summary of Significant Accounting Policies* on pages F-15 to F-26 of the audited combined financial statements included in the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022.

There have been no significant changes to the critical accounting estimates disclosed in the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022. For a detailed discussion of Critical Accounting Estimates, see *Financial Discussion and Analysis of Combined Financial Condition and Combined Results of Operations - Critical Accounting Estimates* on pages 96 to 99 of the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022. Each FHLBank describes its critical accounting estimates in its periodic reports filed with the SEC.

Recent Accounting Developments

See <u>Note 2 - Recently Issued and Adopted Accounting Guidance</u> to the accompanying combined financial statements for a discussion regarding the effect of recently issued accounting guidance on the FHLBanks' combined financial condition, combined results of operations, or combined cash flows.

Legislative and Regulatory Developments

Certain legislative and regulatory actions and developments are summarized in this section. (See *Financial Discussion and Analysis of Combined Financial Condition and Combined Results of Operations - Legislative and Regulatory Developments* in the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022 (pages 100 to 101), for a description of certain legislative and regulatory developments that occurred prior to the publication of that report.)

FHFA Proposed Rule on Fair Lending, Fair Housing, and Equitable Housing Finance Plans. On April 26, 2023, the FHFA published a proposed rule that specifies requirements related to FHLBank compliance with fair housing and fair lending laws and prohibitions on unfair or deceptive acts or practices. The fair housing and fair lending laws would be the Fair Housing Act, the Equal Credit Opportunity Act, and those acts' implementing regulations. Further, the proposed rule would outline the FHFA's enforcement authority. The proposal is open for public comment through June 26, 2023, and the FHLBanks are evaluating the potential effect of the proposed rule on the FHLBanks and their operations.

Consumer Financial Protection Bureau Final Rule on Small Business Lending Data. On March 30, 2023, the Consumer Financial Protection Bureau issued a final rule requiring certain covered financial institutions to collect and report small business lending data. Small businesses are businesses with \$5 million or less in gross annual revenue in the preceding fiscal year. An FHLBank will be subject to data collection and reporting obligations if the FHLBank has originated a minimum of 100 covered credit transactions to small businesses in each of the two preceding calendar years. The final rule implements phased-in compliance dates, beginning on October 1, 2024, based on the number of originations the covered financial institution makes to small businesses within a specified timeframe. Each FHLBank is assessing whether the obligations will be triggered for the FHLBank and what operational changes will be necessary for compliance. While the FHLBanks are still analyzing the effect of the final rule, they do not believe these changes will have a material effect on the FHLBanks' combined financial condition or combined results of operations.

External Credit Ratings

Since March 31, 2023, no changes to external credit ratings have occurred with regard to the FHLBanks or their consolidated obligations. At April 30, 2023, consolidated obligations were rated AA+/A-1+ by S&P and Aaa/P-1 by Moody's, with outlook stable. S&P, Moody's, or other rating organizations could downgrade or upgrade the credit ratings of the U.S. government and GSEs, including the FHLBanks and their consolidated obligations. Investors should note that a rating issued by a nationally recognized statistical rating organization is not a recommendation to buy, sell, or hold securities, and that the ratings may be revised or withdrawn at any time. Investors should evaluate the rating of each nationally recognized statistical rating organization independently. Investors should not take the historical or current ratings of the FHLBanks and their consolidated obligations as an indication of future ratings for the FHLBanks or their consolidated obligations. Table 26 presents each FHLBank's long-term credit rating, short-term credit rating, and outlook at April 30, 2023.

Table 26 - FHLBanks' Long-Term Credit Ratings, Short-Term Credit Ratings, and Outlook at April 30, 2023

	S&	P	Mood	dy's
FHLBank	Long-Term/ Short-Term Rating	Outlook	Long-Term/ Short-Term Rating	Outlook
Boston	AA+/A-1+	Stable	Aaa/P-1	Stable
New York	AA+/A-1+	Stable	Aaa/P-1	Stable
Pittsburgh	AA+/A-1+	Stable	Aaa/P-1	Stable
Atlanta	AA+/A-1+	Stable	Aaa/P-1	Stable
Cincinnati	AA+/A-1+	Stable	Aaa/P-1	Stable
Indianapolis	AA+/A-1+	Stable	Aaa/P-1	Stable
Chicago	AA+/A-1+	Stable	Aaa/P-1	Stable
Des Moines	AA+/A-1+	Stable	Aaa/P-1	Stable
Dallas	AA+/A-1+	Stable	Aaa/P-1	Stable
Topeka	AA+/A-1+	Stable	Aaa/P-1	Stable
San Francisco	AA+/A-1+	Stable	Aaa/P-1	Stable

Risk Management

The fundamental business of each FHLBank is to provide a readily available, competitively-priced source of funds, in a wide range of maturities, to meet the borrowing demands of its members and housing associates. The principal sources of funds for these activities are the proceeds from the issuance of consolidated obligations and, to a lesser extent, capital and deposits from members. Lending and investing funds, and engaging in derivative transactions, can potentially expose the FHLBanks to a number of risks, including market risk and credit risk. (See *Quantitative and Qualitative Disclosures about Market Risk* for a discussion of market risk.) The FHLBanks are also subject to liquidity, operational, and business risks. (See *Financial Discussion and Analysis of Combined Financial Condition and Combined Results of Operations - Risk Management* on pages 118 to 120, and *Risk Factors* on pages 28 to 40, of the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for more information on these risks.)

Credit Risk

Advances. Each FHLBank manages its credit exposure to advances through an integrated approach that provides for the ongoing review of the financial condition of its borrowers coupled with collateral and lending policies and procedures designed to limit its risk of loss while balancing its borrowers' needs for a reliable source of funding. Each FHLBank uses a methodology to evaluate its borrowers, based on financial, regulatory, and other qualitative information, including examination reports. Each FHLBank reviews its borrowers' financial condition on an ongoing basis using current information and makes changes to its collateral guidelines to mitigate the credit risk on advances. During the three months ended March 31, 2023, no FHLBank incurred any credit loss on any of its advances, including advances to failed borrowers, and the management of each FHLBank believed it had adequate policies and procedures in place to manage its credit risk on advances effectively. (See <u>Combined Financial</u> <u>Condition - Advances</u> for additional information about advances to certain failed depository members.)

The FHLBanks protect against credit risk on advances by collateralizing all advances. Advances and other credit product obligations to an FHLBank are fully secured with eligible collateral, the value of which is discounted to account for liquidation and other risks, if applicable, and to protect the FHLBanks from credit loss. Collateral that is determined to contain a low level of risk, such as U.S government obligations, is discounted at a lower rate than collateral that carries a higher level of risk, such as commercial real estate mortgage loans. Eligible collateral values are determined by the market value for securities collateral, and the market value or unpaid principal balance for all loan collateral. For collateral which market prices are not readily available, the FHLBanks may use internal or external valuation models or methodologies to determine the fair value of the collateral. These valuation models incorporate assumptions related to factors that may affect collateral values, such as market liquidity, discount rates, potential prepayments, and liquidation and servicing costs in the event of default, among others, which may be adjusted in response to changes in economic and market conditions in order to produce reliable results. The FHLBanks also have policies and procedures for validating the reasonableness of their collateral valuations. In addition, collateral verifications and on-site reviews are performed by the FHLBanks based on the risk profile of the borrower. At March 31, 2023, each FHLBank had rights to collateral with an estimated value greater than the related outstanding advances. (See Financial Discussion and Analysis of Combined Financial Condition and Combined Results of Operations - Risk Management - Credit Risk - Advances on pages 102 to 107 of the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for information on eligible collateral and effective lending values, and Note 4 - Advances to the accompanying combined financial statements for more information about advances.)

Residential mortgage loans are the principal form of collateral for advances. Collateral eligible to secure new or renewed advances includes:

- one-to-four family and multifamily mortgage loans (delinquent for no more than 90 days) and securities representing such mortgages;
- loans and securities issued, insured, or guaranteed by the U.S. government or any U.S. government agency (for example, mortgage-backed securities issued or guaranteed by Fannie Mae, Freddie Mac, or Ginnie Mae);
- · cash or deposits in the FHLBank;
- certain other collateral that is real estate-related, such as commercial real estate loans, provided it meets certain eligibility requirements; and
- certain qualifying securities representing undivided equity interests in eligible advance collateral.

As of March 31, 2023, there were 149 individual FHLBank borrowers (146 FHLBank members and 3 non-members) that each held advances of at least \$1.0 billion. When a non-member financial institution acquires some or all of the assets and liabilities of an FHLBank member, including outstanding advances and FHLBank capital stock, an FHLBank may allow those advances to remain outstanding to that non-member financial institution. In addition, members that voluntarily withdraw from membership or members whose membership has been terminated involuntarily, such as captive insurers, can be non-members with advances outstanding. Non-members would be required to meet all of that FHLBank's credit and collateral requirements, including requirements regarding creditworthiness and collateral borrowing capacity.

A borrower's total credit obligation to an FHLBank could include outstanding advances, notional amount of letters of credit, collateralized derivative contracts, and credit enhanced obligations on mortgage loans sold to the FHLBank. Eligible collateral values include market values for securities and the unpaid principal balance for all other collateral pledged by the blanket lien, listing, or delivery method. The collateralization ratio for borrowers with at least \$1.0 billion in advances outstanding was 2.3 at March 31, 2023, which represented the total of these 149 individual FHLBank borrowers' eligible collateral divided by these borrowers' advances and other credit products outstanding. The collateralization ratio for all borrowers was 2.8 at March 31, 2023. However, individual borrower credit obligations to the FHLBanks are not cross-collateralized between borrowers.

Table 27 presents advances, other credit products (which primarily includes notional amount of letters of credit), and collateral outstanding for borrowers with at least \$1.0 billion of advances outstanding as compared to all borrowers.

Table 27 - Advances, Other Credit Products, and Collateral Outstanding at March 31, 2023 (dollars in millions)

	Least	owers with at : \$1.0 Billion of Advances outstanding	 All Borrowers	Percentage
Advances outstanding, principal amount	\$	810,740	\$ 1,050,154	77.2 %
Other credit products	\$	63,021	\$ 159,458	39.5 %
Collateral outstanding	\$	2,029,744	\$ 3,446,291	58.9 %

Based on the financial condition of the borrower, each FHLBank classifies each borrower by the method of pledging collateral into one of three collateral categories: (1) blanket lien status; (2) listing (specific identification) status; or (3) delivery (possession) status. The blanket lien status is the least restrictive collateral status, and is

generally assigned to lower risk institutions pledging collateral. Under the blanket lien status, an individual FHLBank allows a borrower to retain possession of eligible collateral pledged to that FHLBank, provided the borrower executes a written security agreement and agrees to hold the collateral for the benefit of that FHLBank. Origination of new advances or renewal of advances must only be supported by certain eligible collateral categories. A blanket lien is typically accepted by the FHLBanks only for loan collateral; most securities collateral must be delivered to an FHLBank, or an FHLBank-approved third-party custodian, and pledged for the benefit of that FHLBank.

An FHLBank may require borrowers to provide a detailed listing of eligible advance collateral being pledged to the FHLBank due to their high usage of FHLBank credit products, the type of assets being pledged, or the credit condition of the borrower. Under the listing status, the borrower retains physical possession of specific collateral pledged to an FHLBank, but the borrower provides listings of loans pledged to its FHLBank with detailed loan information, such as loan amount, payment status, maturity date, interest rate, loan-to-value, collateral type, and FICO® scores. From a borrower's perspective, the benefit of listing collateral relative to a blanket lien security agreement is that, in some cases, the discount or haircut applicable to that collateral may be lower than that for blanket lien collateral. From an FHLBank's perspective, the benefit of listing collateral is that it provides more detailed loan information to arrive at a more precise valuation.

Under the delivery status, an FHLBank requires the borrower to place physical possession of eligible collateral with the FHLBank or a third-party custodian to sufficiently secure all outstanding obligations. Typically, an FHLBank would take physical possession or control of collateral if the financial condition of the borrower was deteriorating or if the borrower exceeded certain credit product usage triggers. However, an FHLBank may require insurance company borrowers, and certain other borrowers, to place physical possession of all pledged eligible collateral with the FHLBank or deposit it with a custodian or control agent in order to establish control over the pledged collateral. Delivery of collateral may also be required if there is a regulatory action against the borrower by its regulator that would indicate inadequate controls or other conditions that would be of concern to that FHLBank.

Table 28 presents information on a combined basis regarding the type of collateral securing advances and other credit products outstanding.

Table 28 - Type of Collateral Securing Advances and Other Credit Products Outstanding at March 31, 2023 (dollars in millions)

	Blanke	t Lien	Listi	ing	Deli	very	Total		
Collateral Type	Amount	Percentage	Amount	Percentage	Amount	Percentage	Amount	Percentage	
Single-family mortgage loans(1)	\$ 747,011	21.7%	\$ 855,211	24.8%	\$ 50,664	1.5%	\$ 1,652,886	48.0%	
Commercial real estate loans	475,193	13.8%	167,981	4.9%	48,219	1.4%	691,393	20.1%	
U.S. agency MBS and CMOs	n/a	n/a	n/a	n/a	331,989	9.6%	331,989	9.6%	
Multifamily mortgage loans	116,489	3.4%	148,206	4.3%	28,641	0.8%	293,336	8.5%	
Home equity loans and lines of credit	69,313	2.0%	70,782	2.1%	5	_	140,100	4.1%	
Other real estate loans	84,014	2.4%	26,335	0.8%	4,767	0.1%	115,116	3.3%	
U.S. obligations	n/a	n/a	n/a	n/a	62,666	1.8%	62,666	1.8%	
Commercial MBS	n/a	n/a	n/a	n/a	48,310	1.4%	48,310	1.4%	
CFI loans	36,500	1.1%	1,340	_	32	_	37,872	1.1%	
U.S. agency securities (excluding MBS)	n/a	n/a	n/a	n/a	26,539	0.8%	26,539	0.8%	
Private-label MBS and CMOs	n/a	n/a	n/a	n/a	17,950	0.5%	17,950	0.5%	
Other	458	_	89	_	27,587	0.8%	28,134	0.8%	
Total collateral	\$ 1,528,978	44.4%	\$ 1,269,944	36.9%	\$ 647,369	18.7%	\$ 3,446,291	100.0%	

⁽¹⁾ Includes Federal Housing Administration and Department of Veterans Affairs loans.

n/a Collateral is not pledged using this pledging method.

Figures 27 and 28 present the percentage of collateral securing advances and other credit products by type and the percentage of collateral securing advances and other credit products by pledging method at March 31, 2023.

Figure 27 - Percentage of Collateral Securing Advances and Other Credit Products by Type

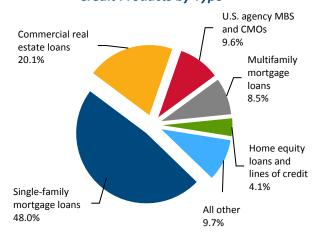
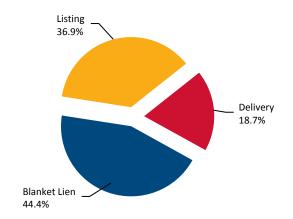


Figure 28 - Percentage of Collateral Securing Advances and Other Credit Products by Pledging Method



Investments. The FHLBanks are subject to credit risk on investments consisting of investment securities, interest-bearing deposits, securities purchased under agreements to resell, and federal funds sold. These investments are generally transacted with government agencies and large financial institutions that are considered by an individual FHLBank to be of investment quality. FHFA regulation defines investment quality as a determination by an FHLBank, with respect to a security, that there is adequate financial backing so that full and timely payment of principal and interest on such a security is expected, and the FHLBank determines that there is minimal risk that the timely payment of principal and interest would not occur because of adverse changes in economic and financial conditions during the projected life of the security.

The FHLBanks maintain short-term investment portfolios, the proceeds of which may provide funds to meet the credit needs of their members and to maintain liquidity. Within this portfolio of short-term investments, the FHLBanks may have unsecured credit exposure on certain investments.

The FHLBanks maintain long-term investment portfolios as an additional source of liquidity and to earn interest income. These investments generally provide the FHLBanks with higher returns than those available on short-term investments. Within this portfolio of long-term investments, the FHLBanks are subject to credit risk related to private-label mortgage-backed securities that are either directly or indirectly supported by underlying mortgage loans. Each private-label mortgage-backed security may contain one or more forms of credit protection/enhancements, including, but not limited to, (1) guarantee of principal and interest, (2) subordination, (3) over-collateralization and excess interest, and (4) third-party insurance. Credit enhancement achieved through subordination features results in the subordination of payments to junior classes to support cash flows received by senior classes held by investors such as the FHLBanks.

Regulatory Restrictions on Investments. To minimize credit risk on investments, the FHLBanks are prohibited by FHFA regulations from investing in certain types of investments. (See Financial Discussion and Analysis of Combined Financial Condition and Combined Results of Operations - Risk Management - Credit Risk - Investments on pages 107 to 108 of the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for additional information about regulatory restrictions on the FHLBanks' investments.)

Investment Quality and Ratings. The FHLBanks seek to reduce the credit risk by investing in investment-quality securities. The FHLBanks consider a variety of credit quality factors when analyzing potential investments, including collateral performance, marketability, asset class or sector considerations, local and regional economic conditions, credit ratings based on the nationally recognized statistical rating organization(s), or the financial health of the underlying issuer. Although the FHLBanks invested in private-label mortgage-backed securities that at the date of purchase were substantially all rated triple-A, many of these securities have incurred credit losses based on economic conditions and housing market trends since the FHLBanks originally purchased them. Figure 29 presents the composition of total investments by credit rating at March 31, 2023.

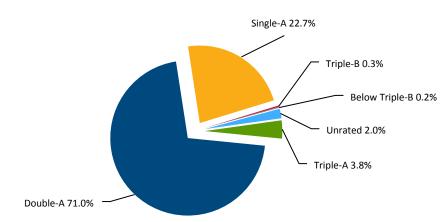


Figure 29 - Total Investments by Credit Rating at March 31, 2023

Table 29 presents the credit ratings of investments held by the FHLBanks as of March 31, 2023, using the lowest long-term credit rating for each security owned by an individual FHLBank based on the nationally recognized statistical rating organization(s) used by that FHLBank. The internal ratings of an individual FHLBank may differ from those obtained from the nationally recognized statistical rating organization(s) and other FHLBank internal ratings. Investors should not take the historical or current ratings displayed in this table as an indication of future ratings.

Table 29 - Investment Ratings

(dollars in millions)

	March 31, 2023(1)(2)							
Carrying Value, Net	Triple-A	Double-A	Single-A	Triple-B	Below Triple-B	Unrated	Total	
Interest-bearing deposits	\$ -	\$ 823	\$ 23,769	\$ 471	\$ -	\$ -	\$ 25,063	
Securities purchased under agreements to resell(3)	15,350	77,833	22,307	500	_	8,470	124,460	
Federal funds sold	_	30,505	55,951	400	_	_	86,856	
Investment securities by major security type								
Non-mortgage backed securities								
U.S. Treasury obligations	_	42,915	_	_	_	_	42,915	
Other U.S. obligations	_	2,444	_	_	_	_	2,444	
GSE and Tennessee Valley Authority obligations	_	11,230	_	_	_	_	11,230	
State or local housing agency obligations	547	1,505	1	1	_	_	2,054	
Federal Family Education Loan Program ABS	_	2,137	_	_	_	_	2,137	
Other	701	44	_	_	_	2	747	
Total non-mortgage-backed securities	1,248	60,275	1	1		2	61,527	
Mortgage-backed securities								
U.S. obligations single-family	_	11,838	_	_	_	_	11,838	
U.S. obligations multifamily	_	479	_	_	_	_	479	
GSE single-family	4	17,227	2	_	1	_	17,234	
GSE multifamily	675	120,554	_	_	_	_	121,229	
Private-label	6	25	91	68	770	608	1,568	
Total mortgage-backed securities	685	150,123	93	68	771	608	152,348	
Total investment securities	1,933	210,398	94	69	771	610	213,875	
Total investments	\$ 17,283	\$ 319,559	\$ 102,121	\$ 1,440	\$ 771	\$ 9,080	\$ 450,254	

⁽¹⁾ Does not reflect any changes in ratings, outlook, or watch status occurring after March 31, 2023.

Short-term Investments. The FHLBanks maintain short-term investment portfolios, the proceeds of which may provide funds to meet the credit needs of their members and to maintain liquidity. The FHLBank Act and FHFA regulations set liquidity requirements for the FHLBanks, and an individual FHLBank's board of directors may also adopt additional liquidity policies. In addition, each FHLBank maintains a contingency funding plan in the event of operational disruptions at either the FHLBanks or the Office of Finance. (See <u>Liquidity and Capital Resources</u> for a discussion of the FHLBanks' liquidity management.)

⁽²⁾ Net carrying values do not include related accrued interest and are presented after any allowance for credit losses.

⁽³⁾ Based on the rating of the counterparty to the agreements, which in some cases were not rated; however, all the collateral of unrated counterparties was rated single-A or above at March 31, 2023.

Within the portfolio of short-term investments, the FHLBanks are subject to credit risk from unsecured credit exposures with private counterparties. Each FHLBank manages its own credit risk independently. The FHLBanks' unsecured credit investments may have maturities ranging between overnight and nine months, and generally include the following types:

- Interest-bearing deposits. Primarily consists of unsecured deposits that earn interest.
- Federal funds sold. Unsecured loans of reserve balances at the Federal Reserve Banks between financial institutions that are made on an overnight and term basis.
- Certificates of deposit. Unsecured negotiable promissory notes issued by banks and payable to the bearer on demand.

Table 30 presents the FHLBanks' unsecured credit exposure with private counterparties by investment type. At March 31, 2023, the FHLBanks had aggregate unsecured credit exposure from investments of \$1 billion or more to each of 22 private counterparties. The aggregate unsecured credit exposure to these counterparties represented 94% of the FHLBanks' total unsecured investment credit exposure to private counterparties. The unsecured investment credit exposure presented in Table 30 does not reflect the average or maximum exposure during the period, as the balances presented reflect the balances at period end.

Table 30 - Unsecured Credit Exposure by Investment Type

(dollars in millions)

Carrying Value(1)(2)		31, 2023	December 31, 2022	
Interest-bearing deposits	\$	25,063	\$	22,937
Federal funds sold		86,856		65,920
Total	\$	111,919	\$	88,857

⁽¹⁾ Excludes unsecured investment credit exposure to U.S. government, U.S. government agencies, government instrumentalities, government-sponsored enterprises, and supranational entities, and does not include related accrued interest.

Each FHLBank actively monitors its credit exposures and the credit quality of its counterparties, including an assessment of each counterparty's financial performance, capital adequacy, sovereign support, and the current market perceptions of the counterparties. General macroeconomic, political, and market conditions may also be considered when deciding on unsecured exposure. As a result, the FHLBanks may limit or suspend existing exposures.

FHFA regulations include limits on the amount of unsecured credit an individual FHLBank may extend to a counterparty or to a group of affiliated counterparties. The limit on the amount of unsecured credit extended to a counterparty is calculated by multiplying the eligible capital by the maximum capital exposure limit applicable to the counterparty. Under these regulations, the level of eligible capital is determined as the lesser of an individual FHLBank's regulatory capital or the eligible amount of Tier 1 capital or regulatory capital of the counterparty. The maximum capital exposure limit is based on the counterparty's overall FHFA credit rating and ranges from 1% to 15%. Extensions of unsecured credit by an individual FHLBank to a counterparty arise from on-balance sheet transactions, off-balance sheet commitments, and derivative transactions. (See <u>Credit Risk - Derivative</u> <u>Counterparties</u> for additional information related to derivatives exposure.)

⁽²⁾ May include unsecured investment credit exposure to members.

FHFA regulations also permit the FHLBanks to extend additional unsecured credit for sales of federal funds with a maturity of one day or less and sales of federal funds subject to a continuing contract that renews automatically. An FHLBank's total unsecured exposure to a counterparty may not exceed twice the regulatory limit for term exposures, or a total of 2% to 30% of the eligible amount of capital, based on the counterparty's credit rating. As of March 31, 2023, each of the FHLBanks was in compliance with the regulatory limits established for unsecured credit.

The FHLBanks are prohibited by FHFA regulations from investing in financial instruments issued by non-U.S. entities, other than those issued by U.S. branches and agency offices of foreign commercial banks. The FHLBanks' unsecured credit exposures to U.S. branches and agency offices of foreign commercial banks include the risk that, as a result of political or economic conditions in a country, the counterparty may be unable to meet its contractual repayment obligations. The FHLBanks' unsecured credit exposures to domestic counterparties, U.S. subsidiaries of foreign commercial banks, and U.S. branches and agency offices of foreign commercial banks include the risk that these counterparties have extended credit to foreign counterparties. As of March 31, 2023, an FHLBank held full faith and credit U.S. guaranteed securities with foreign issuers totaling \$278 million. Other than these investments, the FHLBanks were in compliance with the FHFA regulation as of March 31, 2023.

As of March 31, 2023, the FHLBanks' unsecured investment credit exposure to U.S. branches and agency offices of foreign commercial banks was comprised of federal funds sold. As of March 31, 2023, 91% of the FHLBanks' unsecured investments in federal funds sold were to U.S. branches and agency offices of foreign commercial banks.

Figure 30 presents total unsecured investment credit exposure by credit rating at March 31, 2023.

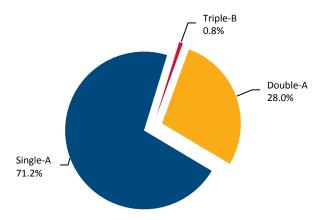


Figure 30 - Total Unsecured Investment Credit Exposure by Credit Rating

Table 31 presents the lowest long-term credit ratings of the unsecured investment credit exposures presented by the domicile of the counterparty or the domicile of the counterparty's immediate parent for U.S. branches and agency offices of foreign commercial banks based on the nationally recognized statistical rating organization(s) used by the individual FHLBank holding the investment. This table does not reflect the foreign sovereign government's credit rating. The internal ratings of an individual FHLBank may differ from those obtained from the nationally recognized statistical rating organization(s) and other FHLBank internal ratings. Investors should not take the historical or current ratings displayed in this table as an indication of future ratings.

Table 31 - Ratings of Unsecured Investment Credit Exposure by Domicile of Counterparty at March 31, 2023⁽¹⁾ (dollars in millions)

	Investment Grade							
Carrying Value(2)	Double-A		s	Single-A		Triple-B		Total
Domestic	\$	1,395	\$	29,859	\$	871	\$	32,125
U.S. subsidiaries of foreign commercial banks		_		940		-		940
Total domestic and U.S. subsidiaries of foreign commercial banks		1,395		30,799		871		33,065
U.S. branches and agency offices of foreign commercial banks								
Canada		10,119		15,365		_		25,484
Australia		6,423		7,538		_		13,961
Finland		9,468		_		_		9,468
Netherlands		_		8,584		_		8,584
France		_		7,275		_		7,275
Germany		2,898		3,831		_		6,729
United Kingdom		_		5,118		_		5,118
Norway		1,025		_		_		1,025
Chile		_		910		_		910
Belgium		_		300		_		300
Total U.S. branches and agency offices of foreign commercial banks		29,933		48,921		_		78,854
Total unsecured investment credit exposure	\$	31,328	\$	79,720	\$	871	\$	111,919

⁽¹⁾ Does not reflect any changes in ratings, outlook, or watch status occurring after March 31, 2023.

The FHLBanks also reduce the credit risk on investments by generally investing in investments that have short-term maturities. At March 31, 2023, all unsecured investments held by the FHLBanks had overnight maturities.

Mortgage Loans Held for Portfolio. The FHFA's Acquired Member Asset (AMA) regulation permits the FHLBanks to purchase and hold specified mortgage loans from their members. Each FHLBank has established or participated in the Acquired Member Asset programs such as the MPF Program, MPP, and MAP as services to their members. Members and eligible housing associates may apply to become a participating financial institution (PFI) of their respective FHLBank. The mortgage loans purchased under these programs may carry more credit risk than advances, even though the respective member or housing associate provides fully secured credit enhancement and bears a portion of the credit risk.

The FHFA's AMA regulation on credit risk sharing allows an FHLBank to utilize its choice of model and methodology to determine the credit enhancement for AMA loan assets and pool loans. The assets delivered must be credit enhanced by the members up to an FHLBank determined "AMA investment-grade" instead of a specific nationally recognized statistical rating organization's ratings.

Management at each FHLBank believes that it has adequate policies and procedures in place to manage credit risk on mortgage loans appropriately. (See <u>Note 5 - Mortgage Loans</u> to the accompanying combined financial statements for additional information about mortgage loan payment status, allowance for credit losses, and other delinquency statistics.)

See Financial Discussion and Analysis of Combined Financial Condition and Combined Results of Operations - Risk Management - Credit Risk - Mortgage Loans Held for Portfolio on pages 112 to 116 of the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for additional information on credit risk of conventional mortgage loans held for portfolio, including loss allocation structures, mortgage insurance, and state concentrations of MPF Program, MPP, and MAP loans.

⁽²⁾ Excludes unsecured investment credit exposure to U.S. government, U.S. government agencies, government instrumentalities, government-sponsored enterprises, and supranational entities, and does not include related accrued interest.

Derivative Counterparties. Each FHLBank transacts most of its derivatives with counterparties that are large banks and major broker-dealers. Derivative transactions may be either executed with a counterparty, referred to as uncleared derivatives, or cleared through a Futures Commission Merchant (i.e., clearing agent) with a Derivative Clearing Organization, referred to as cleared derivatives.

Each FHLBank is subject to credit risk due to the risk of non-performance by counterparties to its derivative transactions. The amount of credit risk on derivatives depends on the extent to which netting procedures, collateral requirements, and other credit enhancements are used and are effective in mitigating the risk. Each FHLBank manages credit risk through credit analysis, collateral management, and other credit enhancements. The FHLBanks are also required to follow the requirements set forth by applicable regulation.

The contractual or notional amount of derivative transactions reflects the involvement of an FHLBank in the various classes of financial instruments. The maximum credit risk of an FHLBank with respect to derivative transactions is the estimated cost of replacing the derivative transactions if there is a default, minus the value of any related collateral. In determining maximum credit risk, each FHLBank considers accrued interest receivables and payables, as well as the netting requirements to net assets and liabilities.

Uncleared Derivatives. Each FHLBank is subject to the risk of non-performance by the counterparties to its uncleared derivative transactions. An FHLBank generally requires collateral on uncleared derivative transactions. Unless the collateral delivery threshold is set to zero, the amount of net unsecured credit exposure that is permissible with respect to each counterparty may depend on the credit rating of that counterparty. A counterparty generally must deliver collateral if the total market value of the FHLBank's exposure to that counterparty rises above a specific threshold.

Uncleared derivative transactions executed on or after the dates specified in applicable regulations are subject to two-way initial margin requirements as mandated by the Wall Street Reform and Consumer Protection Act, or Dodd-Frank Act, if an FHLBank's aggregate uncleared derivative transactions exposure to a counterparty exceeds a specified threshold. The initial margin is required to be held at a third-party custodian and does not change ownership. Rather, the party in respect of which the initial margin has been posted to the third-party custodian will have a security interest in the amount of initial margin required under the uncleared margin rules and can only take ownership upon the occurrence of certain events, including an event of default due to bankruptcy, insolvency, or similar proceeding.

For all uncleared transactions entered into on or after March 1, 2017, the derivative agreements are fully collateralized with a zero unsecured threshold in accordance with variation margin requirements issued by the U.S. federal bank regulatory agencies and the Commodity Futures Trading Commission.

As a result of these risk mitigation initiatives, the management of each FHLBank did not anticipate any credit losses on its uncleared derivative transactions as of March 31, 2023.

Cleared Derivatives. Each FHLBank is subject to the risk of non-performance by the Derivative Clearing Organization(s) (Clearinghouse) and the clearing agents. The requirement that an FHLBank posts initial and variation margin through the clearing agent, to the Clearinghouse, exposes an FHLBank to credit risk in the event that the clearing agent or the Clearinghouse fails to meet its obligations. However, the use of cleared derivatives is intended to mitigate an FHLBank's overall credit risk exposure because a central counterparty is substituted for individual counterparties and collateral/payment is posted daily for changes in the value of cleared derivatives through a clearing agent. The management of each FHLBank did not anticipate any credit losses on its cleared derivatives as of March 31, 2023.

Table 32 presents the derivative positions with non-member counterparties and member institutions to which the FHLBanks had credit exposure at March 31, 2023. The ratings presented in this table represent the lowest long-term counterparty credit rating available for each counterparty of an individual FHLBank, based on the nationally recognized statistical rating organization(s) used by that FHLBank. Investors should not take the historical or current ratings displayed in this table as an indication of future ratings.

Table 32 - Derivative Counterparty Credit Exposure at March 31, 2023

(dollars in millions)

Credit Rating(1)	Notional Amount	 t Derivatives Fair Value Before Collateral		Cash Collateral Pledged To (From) Counterparties	Non-cash Collateral Pledged To (From) Counterparties		t Credit Exposure Counterparties
Non-member counterparties							
Asset positions with credit exposure							
Uncleared derivatives							
Single-A	\$ 4,016	\$ 30	\$	(28)	\$ -	\$	2
Cleared derivatives(2)	14,111	2		21	25		48
Liability positions with credit exposure							
Uncleared derivatives							
Double-A	4,583	(150)		152	_		2
Single-A	178,251	(5,113)		5,327	(79)		135
Triple-B	54,550	(2,316)		2,358	10		52
Cleared derivatives(2)	771,042	(403)		3,628	3,259		6,484
Total derivative positions with credit exposure to non-member counterparties	1,026,553	(7,950)		11,458	3,215		6,723
Member institutions(3)	456	4		_	_		4
Consolidated obligation bond firm commitment	1,415	_		_			_
Total	\$ 1,028,424	\$ (7,946)	\$	11,458	\$ 3,215	\$	6,727

⁽¹⁾ This table does not reflect any changes in rating, outlook, or watch status occurring after March 31, 2023.

⁽²⁾ Represents derivative transactions cleared with LCH Ltd. and CME Clearing, the FHLBanks' clearinghouses. LCH Ltd. is rated AA- by S&P and CME Clearing is not rated, but its parent company, CME Group Inc., is rated Aa3 by Moody's and AA- by S&P.

⁽³⁾ Member institutions include mortgage delivery commitments and derivatives with members where an FHLBank is acting as an intermediary. Collateral held with respect to derivatives with member institutions where an FHLBank is acting as an intermediary represents the amount of eligible collateral physically held by or on behalf of the FHLBank or collateral assigned to the FHLBank, as evidenced by a written security agreement, and held by the member institution for the benefit of that FHLBank.

QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Each FHLBank is responsible for establishing its own risk management philosophies, practices, and policies. Each FHLBank describes its risk management policies for its business, including quantitative and qualitative disclosures about its market risk, in its periodic reports filed with the SEC. (See <u>Explanatory Statement about Federal Home</u> <u>Loan Banks Combined Financial Report.</u>)

Each FHLBank has established policies and procedures to evaluate, manage, and mitigate market risks. The FHFA has established regulations governing the risk management practices of the FHLBanks. The FHLBanks must file periodic compliance reports with the FHFA. The FHFA conducts annual on-site examinations, interim on-site visits, and off-site analyses of each of the FHLBanks and the Office of Finance.

Interest-Rate Risk

Interest-rate risk is the risk that relative and absolute changes in interest rates may adversely affect an institution's financial condition and results of operations. The primary sources of interest rate risk are yield curve risk, basis risk, repricing risk, and options risk. The goal of an interest-rate risk management strategy is not necessarily to eliminate interest-rate risk, but to manage it by setting, and operating within, an appropriate framework and limits. The FHLBanks generally manage interest-rate risk by acquiring and maintaining a portfolio of assets and liabilities and entering into related derivative transactions to limit the expected mismatches in duration and market value of equity sensitivity. The FHLBanks measure and monitor interest-rate risk with commonly used methods, which generally include, but are not limited to, the calculations of market value of equity's sensitivity in various interest rate scenarios, duration of equity, and duration gap, convexity of equity, and key rate durations. (See *Quantitative and Qualitative Disclosures about Market Risk* on pages 121 to 130 of the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for additional information.)

Transition from LIBOR to an Alternative Reference Rate

In July 2017, the United Kingdom's Financial Conduct Authority, which regulates LIBOR, announced that after 2021 it would no longer persuade or compel banks to submit rates for the calculation of LIBOR. In March 2021, the Financial Conduct Authority further announced that LIBOR would either cease to be provided by any administrator or no longer be representative immediately after December 31, 2021 (or, in the case of some more frequently used U.S. dollar LIBOR settings, immediately after June 30, 2023). Under those announcements, the one-week and two-month U.S. dollar LIBOR settings and all non-U.S. dollar LIBOR settings ceased to be provided by any administrator and were no longer representative as of January 1, 2022. The remaining U.S. dollar LIBOR settings will either cease to be provided by any administrator or no longer be representative immediately after June 30, 2023. Although the Financial Conduct Authority does not expect these remaining U.S. dollar LIBOR settings to become unrepresentative before the cessation date, there is no assurance that any of them will continue to be published or be representative through any particular date.

In response to the announcement by the Financial Conduct Authority in July 2017, the Federal Reserve Board and the Federal Reserve Bank of New York convened the Alternative Reference Rates Committee to identify a set of alternative reference interest rates for possible use as market benchmarks. This committee has proposed SOFR as its recommended alternative to U.S. dollar LIBOR, and the Federal Reserve Bank of New York began publishing SOFR rates in the second quarter of 2018. SOFR is based on a broad segment of the overnight Treasury repurchase market and is intended to be a measure of the cost of borrowing cash overnight collateralized by Treasury securities.

Many of the FHLBanks' financial instruments are indexed to LIBOR, with exposure extending past June 30, 2023. The FHLBanks have been evaluating and planning for the eventual replacement of the LIBOR benchmark interest rate. As a result, each of the FHLBanks and the Office of Finance has developed and implemented a LIBOR transition plan, which addresses considerations such as LIBOR exposure, fallback language, operational preparedness, and balance sheet management. As a result of implementing these plans, the FHLBanks have significantly reduced their LIBOR exposure on financial instruments, in particular consolidated obligations. The last of the FHLBanks' consolidated obligations indexed to LIBOR matured during January 2022.

In assessing their exposure to LIBOR, the FHLBanks have developed inventories of affected financial instruments and identified contracts that may require adding or adjusting the fallback language, including advances, investment securities, consolidated bonds, and derivatives. In addition, the FHLBanks have added or adjusted fallback language related to a majority of their advances to members and added or adjusted fallback language applicable to their consolidated bonds. In October 2020, LCH Ltd. and CME Clearing, the FHLBanks' clearinghouses, transitioned the rate for discounting all U.S. dollar interest rate cleared swaps to SOFR. The FHLBanks have also adhered to the ISDA 2020 IBOR Fallbacks Protocol and will work with its counterparties, as necessary, to address its over-the-counter derivative agreements referencing U.S. dollar LIBOR as a part of its LIBOR transition efforts. The FHLBanks continue to monitor the market-wide efforts to address fallback language related to derivatives and investment securities, as well as fallback language for new activities and issuances of financial instruments. Further, each clearinghouse announced its own proposal for the conversion process of LIBOR-linked cleared derivatives to risk-free rates. The conversions are scheduled to occur in several tranches based on product type and are generally expected to be completed before the effective date of LIBOR discontinuation for all covered products with the exception of zero-coupon swaps and any remaining LIBOR swaps with non-representative fixings, which CME Clearing expects to convert on July 3, 2023. In December 2022, the Federal Reserve Board adopted a final rule that implements the Adjustable Interest Rate (LIBOR) Act, enacted in March 2022. The rule, which went into effect on February 27, 2023, establishes benchmark replacement rates based on SOFR for certain contracts, to apply following the first London banking day after June 30, 2023.

With SOFR becoming the dominant market replacement of U.S. dollar LIBOR, market activity in SOFR-indexed financial instruments has continued to increase. During the three months ended March 31, 2023 and 2022, the FHLBanks issued \$328.4 billion and \$61.2 billion in SOFR-linked consolidated bonds. The FHLBanks are also utilizing interest-rate swaps based on the SOFR Overnight Index Swap (OIS) rates or the federal funds OIS rates as alternative interest-rate hedging strategies, rather than LIBOR, when entering into new derivative transactions. The FHLBanks offer SOFR-linked advances to their members and are continuing to develop new SOFR-linked advances to offer to their members. During the three months ended March 31, 2023 and 2022, the FHLBanks issued \$115.6 billion and \$15.2 billion in SOFR-linked advances.

In September 2019, the FHFA issued a supervisory letter to the FHLBanks providing LIBOR transition guidance. The supervisory letter states that by March 31, 2020, the FHLBanks should no longer enter into new financial assets, liabilities, and derivatives that reference LIBOR and mature after December 31, 2021, for all product types except investments. By December 31, 2019, the FHLBanks should stop purchasing investments that reference LIBOR and mature after December 31, 2021. On March 16, 2020, the FHFA extended to June 30, 2020, the FHLBanks' ability to enter into LIBOR-based instruments that mature after December 31, 2021, except for investments and option embedded products. Furthermore, in July 2021, the FHFA issued a supervisory letter to the FHLBanks providing its expectations regarding the use of alternative reference rates in connection with the FHLBanks' LIBOR transition, including outlining considerations that the FHLBanks should address before selecting an alternative reference rate. The supervisory letter requires the FHLBanks to provide advance notice to the FHFA of plans to use an alternative reference rate not already being used by the FHLBanks.

See *Risk Factors - Business Risk - Legislative and Regulatory* on page 31 of the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for additional information on how changes to and the replacement of the LIBOR benchmark interest rate could adversely affect the FHLBanks' businesses, financial condition and results of operations.

At March 31, 2023, the FHLBanks had LIBOR exposure related to advances, investment securities, and derivatives with interest rates indexed to LIBOR. Table 33 presents LIBOR-indexed variable-rate financial instruments and interest-rate swaps with LIBOR exposure at March 31, 2023.

Table 33 - Financial Instruments and Interest-Rate Swaps with LIBOR Exposure (dollars in millions)

	March 31, 2023 LIBOR Tenors That Cease or Will no Longer be Representative Immediately After June 30, 2023					
						presentative
	Due/Terminates through June 30, 2023			/Terminates hereafter		Total
Assets with LIBOR exposure			•			
Advances by redemption term (principal amount)	\$	115	\$	5,722	\$	5,837
Investment securities by contractual maturity (principal amount)(1)						
Non-mortgage-backed securities		21		3,442		3,463
Mortgage-backed securities		56		28,961		29,017
Total investment securities		77		32,403		32,480
LIBOR-indexed interest-rate swaps notional amount (receive leg)						
Cleared		1,454		17,684		19,138
Uncleared		220		8,480		8,700
Total interest-rate swaps		1,674		26,164		27,838
Total principal/notional amount	\$	1,866	\$	64,289	\$	66,155
		-				
Liabilities with LIBOR exposure						
LIBOR-indexed interest-rate swaps notional amount (pay leg)						
Cleared	\$	1,786	\$	1,396	\$	3,182
Uncleared		37		687		724
Total interest-rate swaps notional amount	\$	1,823	\$	2,083	\$	3,906

⁽¹⁾ MBS and Federal Family Education Loan Program ABS are presented by contractual maturity. However, their expected maturities will likely differ from contractual maturities as borrowers may have the right to call or prepay obligations with or without call or prepayment fees.

In addition to LIBOR-indexed interest-rate swaps included in Table 33, the FHLBanks have interest-rate caps or floors with LIBOR exposure at March 31, 2023. Table 34 presents the notional amount of interest-rate caps or floors with LIBOR exposure at March 31, 2023.

Table 34 - Notional Amount of Other Derivatives with LIBOR Exposure

(dol	lars	in	mil	lions	1

			March 31, 2023	
	LIBOR Tenors That Cease or Will no Longer be Representative Immediately After June 30, 2023 Due/Terminates through June 30, Due/Terminates			
			Due/Terminates thereafter	Total
Interest-rate caps or floors	\$ 50) ;	6,290	\$ 6,340

Market Value of Equity and Duration of Equity

Each FHLBank has an internal modeling system for measuring its duration of equity; therefore, individual FHLBank measurements may not be directly comparable. Generally, duration of equity equals the market value-weighted duration of assets minus the market value-weighted duration of liabilities (factoring in the effect of derivatives), divided by the market value of equity. Each FHLBank reports the results of its duration of equity calculations to the FHFA each quarter. Most of the FHLBanks have risk limits on duration of equity and thus they manage to the duration of equity risk measure. The capital adequacy rules of the FHFA require each FHLBank to hold permanent capital in an amount sufficient to cover the sum of its credit, market, and operational risk-based capital requirements, which are defined by applicable regulations. (See <u>Note 9 - Capital</u> to the accompanying combined financial statements for additional information.) Each FHLBank has implemented a market-risk model that calculates the market-risk component of this requirement.

Table 35 presents each FHLBank that includes quantitative market value of equity and duration of equity information in its individual 2023 First Quarter SEC Form 10-Q.

Table 35 - Individual FHLBank's Market Value of Equity and Duration of Equity Disclosures

FHLBank	Market Value of Equity	Duration of Equity
Boston	(1)	(1)
New York	✓	✓
Pittsburgh	(2)	✓
Atlanta	✓	✓
Cincinnati	✓	✓
Indianapolis	✓	✓
Chicago	(3)	✓
Des Moines	✓	(4)
Dallas	✓	(5)
Topeka	(6)	✓
San Francisco	✓	(7)

⁽¹⁾ The FHLBank of Boston monitors and measures market value of equity, duration of equity, and duration gap, as described in its 2023 First Quarter SEC Form 10-Q. In addition, the FHLBank of Boston also monitors adjusted market value of equity, adjusted duration of equity, and adjusted duration gap. See the FHLBank of Boston's 2023 First Quarter SEC Form 10-Q for additional information.

⁽²⁾ The FHLBank of Pittsburgh monitors and measures market value of equity to par value of capital stock, as described in its 2023 First Quarter SEC Form 10-Q. In addition, the FHLBank of Pittsburgh also monitors return on equity spread volatility relative to a return on equity spread volatility limit, established and approved by its board of directors.

⁽³⁾ The FHLBank of Chicago disclosed the dollar loss limits on changes in market value of equity under parallel interest rate shocks in its 2023 First Quarter SEC Form 10-Q.

⁽⁴⁾ Although the FHLBank of Des Moines measures and monitors duration of equity, it disclosed in its 2023 First Quarter SEC Form 10-Q projected 24 month income as a key interest-rate risk measure

⁽⁵⁾ The FHLBank of Dallas monitors and measures duration of equity and duration gap, as described in its 2023 First Quarter SEC Form 10-Q.

⁽⁶⁾ The FHLBank of Topeka measures and monitors market value of equity (MVE); however, the FHLBank of Topeka measures market value risk in terms of its MVE in relation to its regulatory capital stock outstanding instead of to its book value of equity. As described in its 2023 First Quarter SEC Form 10-Q, the FHLBank of Topeka believes this is a reasonable metric because, as a cooperative, the metric reflects the market value of the FHLBank of Topeka relative to the book value of its capital stock.

⁽⁷⁾ The FHLBank of San Francisco does not disclose duration of equity, rather it discloses a comparable metric, "Market Value of Capital Sensitivity" as a key market risk measure.

Table 36 presents the duration of equity reported by each FHLBank to the FHFA in accordance with the FHFA's guidance, which prescribes that down and up interest-rate shocks equal 200 basis points. However, the applicable guidance restricts the down rate from assuming a negative interest rate. Therefore, each FHLBank adjusts the down rate accordingly in periods of very low levels of interest rates.

Table 36 - Duration of Equity

(in years)

		March 31, 2023		December 31, 2022					
FHLBank	Down	Base	Up	Down	Base	Up			
Boston	_	1.0	2.0	0.8	2.2	2.8			
New York	(0.9)	(0.5)	0.2	(0.8)	(0.2)	0.3			
Pittsburgh	0.4	0.4	0.8	0.7	1.0	1.3			
Atlanta	_	0.5	1.6	0.2	0.6	1.4			
Cincinnati	1.3	1.8	1.7	2.0	2.1	1.8			
Indianapolis	(0.6)	(0.2)	0.1	(0.6)	(0.1)	0.2			
Chicago	(2.4)	(1.0)	(0.1)	(1.8)	(0.5)	_			
Des Moines	0.8	1.2	1.4	0.6	1.0	1.0			
Dallas	(2.3)	(1.2)	(0.3)	(3.4)	(1.5)	(0.2)			
Topeka	2.4	1.8	1.8	2.1	1.7	1.7			
San Francisco	0.7	1.3	1.5	1.0	1.3	1.5			

Duration Gap

A related measure of interest-rate risk is duration gap, which is the difference between the estimated durations (market value sensitivity) of assets and liabilities, and reflects the extent to which estimated maturity and repricing cash flows for assets and liabilities are matched. Duration gap determines the sensitivity of assets and liabilities to interest-rate changes. Each FHLBank has an internal modeling system for measuring its duration gap; therefore, individual FHLBank measurements may not be directly comparable. Duration generally indicates the expected change in an instrument's market value resulting from an increase or a decrease in interest rates. Higher duration numbers, whether positive or negative, indicate greater volatility in the market value of equity in response to changing interest rates. Duration gap numbers in Table 37 include the effect of derivative transactions.

Table 37 - Duration Gap

(in months)

FHLBank	March 31, 2023	December 31, 2022
Boston	0.6	1.4
New York	(0.4)	(0.4)
Pittsburgh	_	0.4
Atlanta	0.1	0.2
Cincinnati	0.1	0.1
Indianapolis	(0.5)	(0.4)
Chicago	(0.8)	(0.4)
Des Moines	0.7	0.6
Dallas	(0.8)	(1.2)
Topeka	1.1	1.1
San Francisco	0.9	0.9

Use of Derivatives to Manage Interest-Rate Risk

An FHLBank enters into derivatives to manage interest-rate risk, prepayment risk, and other exposure inherent in otherwise unhedged assets and funding positions. An FHLBank attempts to use derivatives to reduce interest-rate exposure in the most cost-efficient manner. Derivatives are also used to manage the effective maturity, repricing frequency, or option characteristics of financial instruments to achieve risk-management objectives. (See <u>Note 6-Derivatives and Hedging Activities</u> to the accompanying combined financial statements for a discussion of managing interest-rate risk exposure and <u>Financial Discussion and Analysis - Combined Results of Operations</u> for the effect of derivatives and hedging activities on net interest income and non-interest income resulting from the FHLBanks' hedging strategies.)

Table 38 presents the notional amount of the pay and receive leg of interest-rate swaps by interest-rate index at March 31, 2023 and December 31, 2022. The pay and receive legs are equal as both sides of the derivative transaction are being presented. (See *Quantitative and Qualitative Disclosures about Market Risk* for more information on the transition from LIBOR and the use of SOFR as an alternative market benchmark.)

Table 38 - Notional Amount of Interest-Rate Swaps by Interest-Rate Index

(dollars in millions)

	 March 3	31, 20	023		Decembe	r 31, 2022		
	Pay Leg Receive Leg		Pay Leg			Receive Leg		
Interest-Rate Index								
SOFR OIS	\$ 605,241	\$	411,749	\$	494,900	\$	273,883	
Fixed	508,143		675,699		380,059		565,799	
Federal Funds OIS	67,703		69,707		65,659		62,475	
LIBOR	3,906		27,838		8,012		46,473	
Total notional amount of interest-rate swaps	\$ 1,184,993 \$		1,184,993	\$	948,630	\$	948,630	

In addition to the interest-rate swaps included in Table 38, the FHLBanks have other derivatives at March 31, 2023 and December 31, 2022. Table 39 presents the notional amount of other derivatives at March 31, 2023 and December 31, 2022.

Table 39 - Notional Amount of Other Derivatives

(dollars in millions)

	March 31, 2023		December 31, 2022	
Interest-rate caps or floors	\$ 6,8	15	\$ 6,730	
Interest-rate swaptions	1,8	00	1,505	
Mortgage delivery commitments	6	43	299	
Interest-rate futures or forwards	2	09	76	
Other		79	153	
Total notional amount of other derivatives	\$ 9,5	46	\$ 8,763	

CONTROLS AND PROCEDURES

FHLBanks

The management of each FHLBank is required under applicable laws and regulations to establish and maintain effective disclosure controls and procedures as well as effective internal control over financial reporting, as such disclosure controls and procedures and internal control over financial reporting relate to that FHLBank only. Each FHLBank's management assessed the effectiveness of its individual internal control over financial reporting as of December 31, 2022, based on the criteria established in *Internal Control-Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Based on this assessment, management of each FHLBank concluded, as of December 31, 2022, that its individual internal control over financial reporting was effective based on the criteria established in *Internal Control-Integrated Framework*. Additionally, the independent registered public accounting firm of each FHLBank opined that the individual FHLBank maintained, in all material respects, effective internal control over financial reporting as of December 31, 2022. (See *Part II. Item 8 - Financial Statements and Supplementary Data* or *Item 9A - Controls and Procedures* of each FHLBank's 2022 SEC Form 10-K for its *Management's Report on Internal Control over Financial Reporting*.)

The management of each FHLBank concluded that its disclosure controls and procedures were effective at a reasonable assurance level as of the end of the period covered by its 2023 First Quarter SEC Form 10-Q. Additionally, each FHLBank indicated that there were no changes to its internal control over financial reporting during the quarter ended March 31, 2023, that materially affected, or are reasonably likely to materially affect, its internal control over financial reporting. (See *Part I. Item 4 - Controls and Procedures* of each FHLBank's 2023 First Quarter SEC Form 10-Q.)

Office of Finance Controls and Procedures over the Combined Financial Reporting Combining Process

The Office of Finance is not responsible for the preparation, accuracy, or adequacy of the information or financial data provided by the FHLBanks to the Office of Finance for use in preparing the combined financial reports, or for the quality or effectiveness of the disclosure controls and procedures or internal control over financial reporting of the FHLBanks as they relate to that information and financial data. Each FHLBank is responsible for establishing and maintaining disclosure controls and procedures and internal control over financial reporting with respect to the information and financial data provided to the Office of Finance. Although the Office of Finance is not an SEC registrant, FHFA regulations require that the combined financial report form and content generally be consistent with SEC Regulations S-K and S-X, as interpreted by the FHFA. The Office of Finance is not required to establish and maintain, and in light of the nature of its role has not established and maintained, disclosure controls and procedures and internal control over financial reporting in the same manner as those maintained by each FHLBank. The Office of Finance has established controls and procedures concerning the FHLBanks' submission of information and financial data to the Office of Finance, the process of combining the financial statements and other financial information of the individual FHLBanks, and the review of that information.

The Office of Finance does not independently verify the financial information submitted by each FHLBank that comprise the combined financial statements, the condensed combining schedules, and other disclosures included in this Combined Financial Report. Instead, the Office of Finance relies on each FHLBank management's certification and representation regarding the accuracy and completeness, in all material respects, of its data submitted to the Office of Finance for use in preparing this Combined Financial Report.

Audit Committee Charter

The charter of the audit committee of the Office of Finance's board of directors is available on the Office of Finance's website at fhlb-of.com. This website address is provided as a matter of convenience only, and its contents are not made part of or incorporated by reference into this report.

LEGAL PROCEEDINGS

The FHLBanks are subject to various pending legal proceedings arising in the normal course of business. The FHLBanks and the Office of Finance do not believe they are a party to, or subject to, any pending legal proceedings where the ultimate liability of the FHLBanks, if any, arising out of these proceedings is likely to have a material effect on the results of operations, financial condition, or liquidity of the FHLBanks on a combined basis or that are otherwise material to the FHLBanks on a combined basis.

See each FHLBank's 2023 First Quarter SEC Form 10-Q under *Part II. Item 1 - Legal Proceedings* for additional information.

RISK FACTORS

There were no material changes to the risk factors disclosed on pages 28 to 40 of the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022. (See each FHLBank's 2023 First Quarter SEC Form 10-Q for any updates to the risk factors included in the FHLBank's 2022 SEC Form 10-K under *Part I. Item 1A - Risk Factors*.)

MARKET FOR CAPITAL STOCK AND RELATED STOCKHOLDER MATTERS

As a cooperative, each FHLBank conducts its advances business and mortgage loan programs almost exclusively with its members. Members and certain former members own all of the FHLBanks' capital stock. There is no established marketplace for the FHLBanks' stock and it is not publicly traded. FHLBank stock is purchased by members at the stated par value of \$100 per share and may be redeemed/repurchased at its stated par value of \$100 per share, subject to applicable redemption periods and certain conditions and limitations. (See *Business - Capital, Capital Rules, and Dividends* on pages 15 to 19 of the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for more information on the restrictions on capital stock redemptions and repurchases.)

At March 31, 2023, the FHLBanks had 542 million shares of capital stock outstanding, including mandatorily redeemable capital stock. The FHLBanks are not required to register their securities under the Securities Act of 1933, as amended; however, each FHLBank is required to register a class of its stock under the Securities Exchange Act of 1934, as amended. (See *Note 9 - Capital* to the accompanying combined financial statements for additional information on regulatory capital stock and mandatorily redeemable capital stock.)

Table 40 presents combined regulatory capital stock, which includes mandatorily redeemable capital stock, held by type of member and FHLBank membership by type of member.

Table 40 - Regulatory Capital Stock Held and Membership by Type of Member (dollars in millions)

		March 31	, 2023	Decembe	r 31, 2022
		atory Capital ck Amount	Number of Members	Regulatory Capital Stock Amount	Number of Members
Commercial banks	\$	33,044	3,702	\$ 25,411	3,726
Insurance companies		7,602	564	7,408	565
Credit unions		6,262	1,580	6,367	1,572
Savings institutions		6,436	568	4,802	569
Community development financial institutions		18	70	18	70
Total	·	53,362	6,484	44,006	6,502
Mandatorily redeemable capital stock		798		708	
Combined regulatory capital stock	\$	54,160		\$ 44,714	

Figures 31 and 32 present the percentage of regulatory capital stock held, and membership, by type of member at March 31, 2023.

Figure 31 - Percentage of Regulatory Capital Stock Held by Type of Member

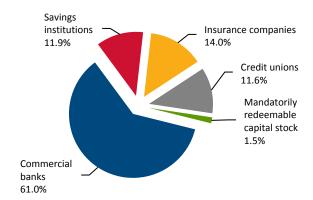
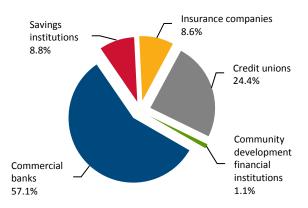


Figure 32 - Percentage of Membership by Type of Member



The information on regulatory capital stock presented in Table 41 is accumulated at the holding-company level. The percentage of combined regulatory capital stock identified in Table 41 for each holding company was computed by dividing all regulatory capital stock owned by subsidiaries of that holding company by combined regulatory capital stock. These percentage concentrations do not represent ownership concentrations in an individual FHLBank.

Table 41 - Top 10 Regulatory Capital Stockholders by Holding Company at March 31, 2023

(dollars in millions)

Holding Company Name(1)	FHLBank Districts(2)	atory Capital tock(3)	Percentage of Combined Regulatory Capital Stock	Mandate Redeemable Stock	Capital
Truist Financial Corporation	Atlanta, Pittsburgh	\$ 2,426	4.5 %	\$	1
U.S. Bancorp	Cincinnati, San Francisco, Des Moines	2,210	4.1 %		1
The Charles Schwab Corporation	Dallas	1,890	3.5 %		_
The PNC Financial Services Group, Inc.	Pittsburgh, Cincinnati	1,311	2.4 %		5
Bank of America Corporation	Atlanta, San Francisco, Boston, Des Moines	1,228	2.3 %		3
New York Community Bancorp, Inc.	New York, Indianapolis	1,156	2.1 %		329
Wells Fargo & Company	Des Moines, San Francisco, Dallas, Topeka	1,155	2.1 %		6
KeyCorp	Cincinnati	958	1.8 %		_
The Toronto-Dominion Bank	Pittsburgh, Atlanta	937	1.7 %		_
First Republic Bank(4)	San Francisco	 759	1.4 %		
		\$ 14,030	25.9 %	\$	345
					-

⁽¹⁾ Holding company information was obtained from the Federal Reserve System's website, the National Information Center (NIC), and SEC filings. The NIC is a central repository of data about banks and other institutions for which the Federal Reserve System has a supervisory, regulatory, or research interest, including both domestic and foreign banking organizations operating in the United States.

⁽²⁾ At March 31, 2023, each holding company had subsidiaries with regulatory capital stock holdings in these FHLBank districts.

⁽³⁾ Includes FHLBank capital stock that is considered to be mandatorily redeemable, which is classified as a liability under GAAP.

⁽⁴⁾ On May 1, 2023, the FDIC was appointed as receiver for First Republic Bank, a member of the FHLBank of San Francisco. The FDIC and JPMorgan Chase Bank, National Association entered into a purchase and assumption agreement for all the deposits and substantially all of the assets of First Republic Bank, including the advances outstanding from the FHLBank of San Francisco. Upon assumption of the advances outstanding by JPMorgan Chase, National Association, the FHLBank of San Francisco will transfer \$759 million of capital stock of the FHLBank of San Francisco, held by First Republic Bank, to JPMorgan Chase, National Association, and reclassify that capital stock to mandatorily redeemable as a liability in the FHLBank of San Francisco's Statements of Condition.

SUPPLEMENTAL INFORMATION

Individual Federal Home Loan Bank Selected Financial Data and Financial Ratios

The following individual Federal Home Loan Bank (FHLBank) selected financial data and financial ratios are unaudited, and provided as a convenience to the reader. Please refer to <u>Explanatory Statement about Federal Home Loan Banks Combined Financial Report</u>, which discusses the independent management and operation of the FHLBanks; identifies the availability of other information about the FHLBanks; and describes where to find the periodic reports and other information filed by each FHLBank with the SEC.

Individual FHLBank Selected Financial Data and Financial Ratios (Unaudited)

(dollars in millions)		Boston	_	New York	_	Pittsburgh		Atlanta		Cincinnati		
Selected Statement of Condition Data(1)												
At March 31, 2023												
Assets	_		_				_					
Investments(2)(3)	\$	26,151	\$	56,679	\$	24,511	\$	55,764	\$	46,323		
Advances		49,622		126,251		88,064		164,658		107,627		
Mortgage loans held for portfolio		2,725		2,094		4,558		116		7,065		
Total assets		80,164		185,937		117,996		223,944		164,330		
Deposits		873		3,782		625		2,362		1,271		
Consolidated obligations(3)												
Discount notes		33,448		59,922		30,613		54,052		69,685		
Bonds		41,670		112,475		79,628		156,588		84,259		
Total consolidated obligations		75,118		172,397		110,241		210,640		153,944		
Mandatorily redeemable capital stock		10		6		29		-		17		
Total capital												
Capital stock(4)		2,405		6,860		4,251		7,752		6,605		
Retained earnings		1,716		2,189		1,600		2,328		1,454		
Accumulated other comprehensive income (loss)		(306)		(182)		(56)		(17)		(52)		
Total capital		3,815		8,867		5,795		10,063		8,007		
Asset composition (as a percentage of the individual FHLBank	s's tot	tal assets)										
Investments(2)(3)		32.6 %		30.5 %		20.8 %		24.9 %	ó	28.2 %		
Advances		61.9 %		67.9 %		74.6 %		73.5 %	á	65.5 %		
Mortgage loans held for portfolio, net		3.4 %		1.1 %		3.9 %		0.1 %	ó	4.3 %		
Retained earnings as a percentage of FHLBank's total assets		2.1 %		1.2 %		1.4 %		1.0 %		0.9 %		
FHLBank's total assets as a percentage of FHLBank System		5.1 %		11.9 %		7.5 %	14.3 %		ó	10.5 %		
At March 31, 2022												
Assets												
Investments(2)(3)	\$	16,849	\$	34,996	\$	17,835	\$	31,405	\$	37,773		
Advances	•	11,817		70,629	•	16,292	•	51,538	•	33,529		
Mortgage loans held for portfolio		2,999		2,233		4,687		139		7,556		
Total assets		32,396		108,598		39,921		84,450		79,336		
Deposits		803		1,181		954		2,158		1,510		
Consolidated obligations(3)		000		1,101		33.		2,130		1,510		
Discount notes		2,878		43,177		13,033		27,228		31,650		
Bonds		26,071		57,376		22,949		49,407		40,016		
Total consolidated obligations		28,949	-	100,553	_	35,982	_	76,635		71,666		
Mandatorily redeemable capital stock		14	_	8	_	22	_	70,033		529		
Total capital		14		8		22		_		323		
·		930		4.490		1 221		2.656		3,000		
Capital stock(4)				4,480		1,321		2,656		•		
Retained earnings		1,571		1,939		1,405		2,242		1,297		
Accumulated other comprehensive income (loss)		(89)	_	(89)	_	30	_	(39)		(24)		
Total capital		2,412	_	6,330	_	2,756	_	4,859		4,273		
Asset composition (as a percentage of the individual FHLBank	rs tot								,			
Investments(2)(3)		52.0 %		32.2 %		44.7 %		37.2 %		47.6 %		
Advances		36.5 %		65.0 %		40.8 %		61.0 %		42.3 %		
Mortgage loans held for portfolio, net		9.3 %		2.1 %		11.7 %		0.2 %	ó	9.5 %		
Retained earnings as a percentage of individual FHLBank's total assets		4.8 %		1.8 %		3.5 %		2.7 %		1.6 %		
FHLBank's total assets as a percentage of FHLBank System		4.3 %		14.2 %		5.2 %		11.1 %	ó	10.4 %		

⁽¹⁾ The sum or recalculation of individual FHLBank amounts may not agree or may not be recalculated from the Combined Statement of Condition amounts due to combining adjustments

⁽²⁾ Investments consist of interest-bearing deposits, deposits with other FHLBanks, securities purchased under agreements to resell, federal funds sold, trading securities, available-for-sale securities, and held-to-maturity securities.

⁽³⁾ See Note 1 - Summary of Significant Accounting Policies - Basis of Presentation on page F-15 in the audited combined financial statements included in the Federal Home Loan Banks Combined Financial Report for the year ended December 31, 2022, for information about the elimination of interbank transactions in the combined financial statements of the FHLBanks.

(dollars in millions)	Indianapolis	Chicago	Des Moines	Dallas	Topeka	San Francisco
Selected Statement of Condition Data(1)						
At March 31, 2023						
Assets						
Investments(2)(3)	\$ 27,193	\$ 45,512	\$ 57,530	\$ 51,166	\$ 19,831	\$ 39,712
Advances	36,950	79,584	119,027	124,834	46,457	101,541
Mortgage loans held for portfolio	7,732	10,174	8,473	4,565	7,925	801
Total assets	72,690	136,054	186,417	181,176	74,838	142,493
Deposits	582	846	1,316	1,506	956	1,022
Consolidated obligations(3)						
Discount notes	23,171	50,970	72,642	62,210	20,973	37,356
Bonds	43,707	74,474	100,883	106,947	48,515	95,034
Total consolidated obligations	66,878	125,444	173,525	169,157	69,488	132,390
Mandatorily redeemable capital stock	372	247	14	7	_	95
Total capital						
Capital stock(4)	2,292	3,545	6,592	6,391	2,662	4,007
Retained earnings	1,352	4,659	2,713	1,966	1,286	4,126
Accumulated other comprehensive income (loss)	(73)	(246)	(183)	83	(82)	(61)
Total capital	3,571	7,958	9,122	8,440	3,866	8,072
Asset composition (as a percentage of the individual FHLBan	k's total assets)					
Investments(2)(3)	37.4 %	33.5 %	30.9 %	28.2 %	26.5 %	27.9 %
Advances	50.8 %	58.5 %	63.8 %	68.9 %	62.1 %	71.3 %
Mortgage loans held for portfolio, net	10.6 %	7.5 %	4.5 %	2.5 %	10.6 %	0.6 %
Retained earnings as a percentage of FHLBank's total assets	1.9 %	3.4 %	1.5 %	1.1 %	1.7 %	2.9 %
FHLBank's total assets as a percentage of FHLBank System	4.6 %	8.7 %	11.9 %	11.6 %	4.8 %	9.1 %
At March 31, 2022						
Assets						
Investments(2)(3)	\$ 28,026	\$ 40,102	\$ 34,621	\$ 31,255	\$ 16,868	\$ 34,629
Advances	26,588	46,907	44,773	26,763	25,488	20,246
Mortgage loans held for portfolio	7,702	9,800	7,702	3,731	8,022	914
Total assets	63,015	97,384	87,737	62,606	50,743	56,129
Deposits	1,237	707	1,808	1,800	937	1,024
Consolidated obligations(3)						
Discount notes	18,173	26,463	36,743	15,062	7,844	19,744
Bonds	39,632	62,222	42,463	41,476	38,960	28,702
Total consolidated obligations	57,805	88,685	79,206	56,538	46,804	48,446
Mandatorily redeemable capital stock	46	300	18	16	1	7
Total capital						
Capital stock(4)	2,122	2,132	3,523	2,291	1,574	2,097
Retained earnings	1,193	4,334	2,401	1,596	1,173	3,875
Accumulated other comprehensive income (loss)	59	177	21	175	32	182
Total capital	3,374	6,643	5,945	4,062	2,779	6,154
Asset composition (as a percentage of the individual FHLBan						
Investments(2)(3)	44.5 %	41.2 %	39.5 %	49.9 %	33.2 %	61.7 %
Advances	42.2 %	48.2 %		42.7 %		36.1 %
Mortgage loans held for portfolio, net	12.2 %	10.1 %		6.0 %		1.6 %
Retained earnings as a percentage of individual FHLBank's total assets	1.9 %	4.5 %		2.5 %		6.9 %
FHLBank's total assets as a percentage of FHLBank System	8.3 %	12.8 %	11.5 %	8.2 %	6.7 %	7.4 %
•						

⁴⁾ FHLBank capital stock is redeemable at the request of a member subject to the statutory redemption periods and other conditions and limitations. (See <u>Note 9 - Capital</u> to the accompanying combined financial statements for additional information on the statutory redemption periods and other conditions and limitations.)

Individual FHLBank Selected Financial Data and Financial Ratios (Unaudited, continued)

(dollars in millions)	1	Boston	New York	Pittsburgh	Atlanta	Cincinnati
Selected Other Data						
March 31, 2023						
Advance concentrations - top five borrowers		50 %	50 %	78 %	65 %	70 %
Regulatory capital stock concentrations - top five stockholders		45 %	45 %	72 %	60 %	64 %
Regulatory capital-to-assets ratio(5)		5.15 %	4.87 %	4.98 %	4.50 %	4.91 %
Cash and stock dividends						
Quarter-to-date March 31, 2023	\$	31	\$ 106	\$ 59	\$ 78	\$ 74
Quarter-to-date March 31, 2022	\$	5	\$ 49	\$ 12	\$ 22	\$ 12
Weighted average dividend rate (annualized)						
Quarter-to-date March 31, 2023		6.67 %	7.00 %	7.56 %	6.37 %	6.00 %
Quarter-to-date March 31, 2022		2.05 %	4.75 %	4.08 %	3.70 %	2.00 %
Return on average equity (annualized)6)						
Quarter-to-date March 31, 2023		6.50 %	9.61 %	9.62 %	5.92 %	8.03 %
Quarter-to-date March 31, 2022		4.50 %	3.61 %	2.76 %	3.19 %	1.48 %
Return on average assets (annualized)						
Quarter-to-date March 31, 2023		0.32 %	0.48 %	0.47 %	0.28 %	0.42 %
Quarter-to-date March 31, 2022		0.35 %	0.21 %	0.19 %	0.18 %	0.09 %
Net interest margin (annualized)(7)						
Quarter-to-date March 31, 2023		0.47 %	0.57 %	0.60 %	0.39 %	0.60 %
Quarter-to-date March 31, 2022		0.74 %	0.45 %	0.46 %	0.35 %	0.43 %
Net interest spread (annualized)						
Quarter-to-date March 31, 2023		0.17 %	0.35 %	0.35 %	0.12 %	0.36 %
Quarter-to-date March 31, 2022		0.70 %	0.42 %	0.43 %	0.33 %	0.40 %

⁽⁵⁾ The regulatory capital-to-assets ratio is calculated based on the FHLBank's regulatory capital as a percentage of total assets held at period-end. (See <u>Note 9 - Capital</u> to the accompanying combined financial statements for a definition and discussion of regulatory capital.)

⁽⁶⁾ Return on average equity is net income expressed as a percentage of average total capital. Mandatorily redeemable capital stock is not included in the calculation of return on average equity.

⁽⁷⁾ Net interest margin is equal to net interest income represented as a percentage of average interest-earning assets.

(dollars in millions)	Ind	Indianapolis Chicago Des Moines Dallas Topek		olis Chicago Des Moines Dallas		Dallas To		Topeka	eka San Francis			
Selected Other Data												
March 31, 2023												
Advance concentrations - top five borrowers		40 %		49 %		42 %		56 %		53 %		63 %
Regulatory capital stock concentrations - top five stockholders		39 %		41 %		31 %		46 %		43 %		43 %
Regulatory capital-to-assets ratio(5)		5.53 %		6.21 %		5.00 %		4.62 %		5.28 %		5.77 %
Cash and stock dividends												
Quarter-to-date March 31, 2023	\$	27	\$	48	\$	96	\$	43	\$	53	\$	63
Quarter-to-date March 31, 2022	\$	13	\$	22	\$	43	\$	3	\$	20	\$	35
Weighted average dividend rate (annualized)												
Quarter-to-date March 31, 2023		4.41 %		6.68 %		6.58 %		4.60 %		8.12 %		7.00 %
Quarter-to-date March 31, 2022		2.31 %		4.43 %		4.86 %		0.67 %		4.88 %		6.00 %
Return on average equity (annualized)(6)												
Quarter-to-date March 31, 2023		10.86 %		7.31 %		8.51 %		9.96 %		8.96 %		10.14 %
Quarter-to-date March 31, 2022		3.26 %		5.61 %		3.71 %		4.18 %		6.98 %		4.91 %
Return on average assets (annualized)												
Quarter-to-date March 31, 2023		0.53 %		0.42 %		0.44 %		0.53 %		0.46 %		0.60 %
Quarter-to-date March 31, 2022		0.20 %		0.37 %		0.25 %		0.27 %		0.39 %		0.59 %
Net interest margin (annualized)(7)												
Quarter-to-date March 31, 2023		0.59 %		0.67 %		0.66 %		0.59 %		0.56 %		0.88 %
Quarter-to-date March 31, 2022		0.45 %		0.62 %		0.46 %		0.59 %		0.66 %		0.78 %
Net interest spread (annualized)												
Quarter-to-date March 31, 2023		0.27 %		0.35 %		0.41 %		0.27 %		0.31 %		0.60 %
Quarter-to-date March 31, 2022		0.43 %		0.60 %		0.42 %		0.57 %		0.64 %		0.76 %

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