# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# **FORM 10-Q**

# ☑ QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended September 30, 2021

OR

# □ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

**Commission File Number 000-51405** 

# FEDERAL HOME LOAN BANK OF DALLAS

(Exact name of registrant as specified in its charter)

Federally chartered corporation

(State or other jurisdiction of incorporation or organization)

8500 Freeport Parkway South, Suite 600 Irving, TX

(Address of principal executive offices)

(214) 441-8500

(Registrant's telephone number, including area code)

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

Title of each class	Trading symbol(s)	Name of each exchange on which registered

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

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (17 C.F.R. \$232.405) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes  $\square$  No  $\square$ 

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

Large accelerated filer		Accelerated filer	
Non-accelerated Filer	$\checkmark$	Smaller reporting company	
		Emerging growth company	

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

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

Indicate the number of shares outstanding of each of the issuer's classes of common stock, as of the latest practicable date: At November 5, 2021, the registrant had outstanding 21,826,392 shares of its Class B Capital Stock, \$100 par value per share.

71-6013989

(I.R.S. Employer Identification Number)

75063-2547

(Zip code)

# FEDERAL HOME LOAN BANK OF DALLAS

## TABLE OF CONTENTS

#### PART I. FINANCIAL INFORMATION **Item 1. Financial Statements** 1 Statements of Condition as of September 30, 2021 and December 31, 2020 1 Statements of Income for the Three and Nine Months Ended September 30, 2021 and 2020 2 Statements of Comprehensive Income for the Three and Nine Months Ended September 30, 2021 and 2020 <u>3</u> Statements of Capital for the Three and Nine Months Ended September 30, 2021 and 2020 4 Statements of Cash Flows for the Nine Months Ended September 30, 2021 and 2020 <u>6</u> Notes to Interim Unaudited Financial Statements <u>8</u> Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations <u>41</u> Forward-Looking Information <u>41</u> Overview 41 Selected Financial Data 46 Legislative and Regulatory Developments 47 49 **Financial Condition Results of Operations** <u>62</u> **Critical Accounting Policies and Estimates** <u>72</u> Liquidity and Capital Resources <u>72</u> **Recently Issued Accounting Guidance** 73 Item 3. Quantitative and Qualitative Disclosures About Market Risk 74 **Item 4. Controls and Procedures** 77 **PART II. OTHER INFORMATION** Item 6. Exhibits <u>78</u> 79 **Signatures** EX-31.1

EX-31.2 EX-32.1 EX-101 INSTANCE DOCUMENT EX-101 SCHEMA DOCUMENT EX-101 CALCULATION LINKBASE DOCUMENT EX-101 DEFINITION LINKBASE DOCUMENT EX-101 LABELS LINKBASE DOCUMENT EX-101 PRESENTATION LINKBASE DOCUMENT EX-104 COVER PAGE INTERACTIVE DATA FILE Page

# PART I. FINANCIAL INFORMATION ITEM 1. FINANCIAL STATEMENTS

#### FEDERAL HOME LOAN BANK OF DALLAS STATEMENTS OF CONDITION (Unaudited; in thousands, except share data)

	Sep	September 30, 2021		ecember 31, 2020
ASSETS				
Cash and due from banks	\$	240,691	\$	3,178,281
Interest-bearing deposits (Notes 8 and 9)		846,269		759,240
Securities purchased under agreements to resell (Notes 8, 9 and 12)		10,750,000		1,000,000
Federal funds sold (Notes 8 and 9)		3,124,000		915,000
Trading securities (Notes 3 and 8)		208,024		5,301,468
Available-for-sale securities <sup>(a)</sup> (Notes 4, 8, 9, 12 and 17) (\$579,473 and \$737,500 pledged at September 30, 2021 and December 31, 2020, respectively, which could be rehypothecated)		16,081,806		16,787,762
Held-to-maturity securities <sup>(b)</sup> (Notes 5, 8 and 9)		676,292		897,226
Advances (Notes 6, 8 and 9)		24,775,990		32,478,944
Mortgage loans held for portfolio, net of allowance for credit losses of \$3,303 and \$3,925 at September 30, 2021 and December 31, 2020, respectively (Notes 7, 8 and 9)		3,337,821		3,422,686
Accrued interest receivable (Note 8)		91,290		106,322
Premises and equipment, net		15,683		14,901
Derivative assets (Notes 12 and 13)		8,885		7,975
Other assets (including \$16,596 and \$15,839 of securities held at fair value at September 30, 2021 and December 31, 2020, respectively)		46,005		42,721
TOTAL ASSETS	\$	60,202,756	\$	64,912,526
LIABILITIES AND CAPITAL				
Deposits (including \$20 of non-interest bearing deposits at September 30, 2021 and December 31, 2020)	\$	1,785,107	\$	1,583,120
Consolidated obligations (Note 10)	φ	1,700,107	Ŷ	1,000,120
Discount notes		5,155,955		22,171,296
Bonds		49,193,449		37,112,721
Total consolidated obligations		54,349,404		59,284,017
Mandatorily redeemable capital stock		6,653		13,864
Accrued interest payable		58,791		42,039
		,		
Affordable Housing Program (Note 11)		57,342		63,153
Derivative liabilities (Notes 12 and 13)		32,608		25,049
Other liabilities (Note 3)		49,760		344,399
Total liabilities		56,339,665		61,355,641
Commitments and contingencies (Notes 9 and 17)				
CAPITAL (Note 14)				
Capital stock				
Capital stock — Class B-1 putable (\$100 par value) issued and outstanding shares: 12,187,733 and 9,044,480 shares at September 30, 2021 and December 31, 2020, respectively		1,218,773		904,448
Capital stock — Class B-2 putable (\$100 par value) issued and outstanding shares: 9,361,207 and 11,969,321 shares at September 30, 2021 and December 31, 2020, respectively		936,121		1,196,932
Total Class B Capital Stock		2,154,894	_	2,101,380
Retained earnings				
Unrestricted		1,257,514		1,174,359
Restricted		257,317	_	233,886
Total retained earnings		1,514,831		1,408,245
Accumulated other comprehensive income (Note 20)		193,366		47,260
Total capital		3,863,091		3,556,885
TOTAL LIABILITIES AND CAPITAL	\$	60,202,756	\$	64,912,526

(a) Amortized cost: \$15,815,385 and \$16,615,401 at September 30, 2021 and December 31, 2020, respectively.

<sup>(b)</sup> Fair values: \$689,351 and \$908,630 at September 30, 2021 and December 31, 2020, respectively.

## FEDERAL HOME LOAN BANK OF DALLAS STATEMENTS OF INCOME (Unaudited, in thousands)

	F	For the Three Months Ended September 30,			F	For the Nine M Septem	Ionths Ended ber 30,	
		2021		2020	2021		 2020	
INTEREST INCOME								
Advances	\$	29,124	\$	49,059	\$	90,790	\$ 310,41	
Prepayment fees on advances, net		921		7,326		4,460	14,20	
Interest-bearing deposits		308		893		858	8,46	
Securities purchased under agreements to resell		58		203		94	7,68	
Federal funds sold		858		545		2,138	8,37	
Trading securities		868		9,909		7,979	55,91	
Available-for-sale securities		32,843		39,680		107,895	179,47	
Held-to-maturity securities		1,256		1,974		4,127	11,40	
Mortgage loans held for portfolio		20,300		21,503		56,719	83,55	
Total interest income		86,536		131,092		275,060	679,49	
INTEREST EXPENSE								
Consolidated obligations								
Bonds		12,922		32,403		54,142	250,20	
Discount notes		6,412		18,216		22,793	187,33	
Deposits		124		122		265	4,32	
Mandatorily redeemable capital stock		5		31		19	7	
Other borrowings		_				(11)		
Total interest expense		19,463	_	50,772		77,208	 441,93	
NET INTEREST INCOME		67,073		80,320		197,852	 237,56	
Provision (reversal) for mortgage loan losses		(184)		863		(622)	 2,41	
NET INTEREST INCOME AFTER PROVISION (REVERSAL) FOR MORTGAGE LOAN LOSSES		67,257		79,457		198,474	235,14	
OTHER INCOME (LOSS)								
Net gains (losses) on trading securities		(871)		(7,152)		(7,777)	13,97	
Net gains on derivatives and hedging activities		438		312		620	2,63	
Net gains (losses) on other assets carried at fair value		(56)		583		1,153	30	
Realized gains on sales of available-for-sale securities		—		773		_	77	
Letter of credit fees		3,545		3,621		10,849	10,94	
Other, net		1,544		1,155		3,835	 3,42	
Total other income (loss)		4,600		(708)		8,680	32,05	
OTHER EXPENSE								
Compensation and benefits		12,948		13,440		40,197	38,60	
Other operating expenses		8,473		8,544		25,782	27,35	
Finance Agency		1,554		1,250		4,662	3,75	
Office of Finance		1,475		1,097		3,992	3,48	
Subsidies, grants and donations		1,316		1,086		1,586	8,29	
Derivative clearing fees		244		314		758	99	
Total other expense		26,010	_	25,731		76,977	 82,47	
INCOME BEFORE ASSESSMENTS		45,847		53,018		130,177	184,72	
Affordable Housing Program assessment		4,586		5,305		13,020	18,48	
NET INCOME	\$	41,261	\$	47,713	\$	117,157	\$ 166,24	

# FEDERAL HOME LOAN BANK OF DALLAS STATEMENTS OF COMPREHENSIVE INCOME (Unaudited, in thousands)

	For the Three Months Ended September 30,			For the Nine M				
		2021		2020		2021		2020
NET INCOME	\$	41,261	\$	47,713	\$	117,157	\$	166,247
<b>OTHER COMPREHENSIVE INCOME (LOSS)</b>								
Net unrealized gains (losses) on available-for-sale securities, net of unrealized gains and losses relating to hedged interest rate risk included in net income		(38,154)		134,871		94,060		(34,600)
Reclassification adjustment for realized gains on sales of available-for-sale securities included in net income		_		(773)		_		(773)
Unrealized gains (losses) on cash flow hedges		4,004		1,559		33,914		(105,070)
Reclassification adjustment for losses on cash flow hedges included in net income		5,658		5,095		16,677		9,273
Accretion of non-credit portion of other-than-temporary impairment losses to the carrying value of held-to- maturity securities		471		599		1,490		1,669
Postretirement benefit plan								
Amortization of prior service cost included in net periodic benefit cost/credit		5		5		15		15
Amortization of net actuarial gain included in net periodic benefit cost/credit		(16)		(20)		(50)		(60)
Total other comprehensive income (loss)		(28,032)		141,336		146,106		(129,546)
TOTAL COMPREHENSIVE INCOME	\$	13,229	\$	189,049	\$	263,263	\$	36,701

# FEDERAL HOME LOAN BANK OF DALLAS STATEMENTS OF CAPITAL FOR THE THREE AND NINE MONTHS ENDED SEPTEMBER 30, 2021 AND 2020 (Unaudited, in thousands)

	Class B-1	al Stock   - Putable hip/Excess)	Class B-2	al Stock 2 - Putable iivity)	Retained Earnings		Accumulated Other Comprehensive	Total			
	Shares	Par Value	Shares	Par Value	Unrest	tricted	Restricted	Total	Income (Loss)	Capital	
BALANCE, JULY 1, 2021	11,588	\$ 1,158,833	9,339	\$ 933,906	\$ 1,	227,838	\$ 249,065	\$ 1,476,903	\$ 221,398	\$ 3,791,040	
Net transfers of shares between Class B-1 and Class B-2 Stock	3,337	333,706	(3,337)	(333,706)		_	_	_	_	_	
Proceeds from sale of capital stock	70	7,001	3,359	335,921		—	—	—	—	342,922	
Repurchase/redemption of capital stock	(2,840)	(284,047)	_	_		—	_	_	_	(284,047)	
Comprehensive income (loss)											
Net income	_	_	_	_		33,009	8,252	41,261	—	41,261	
Other comprehensive income (loss)	_	—	—	—		—	_	_	(28,032)	(28,032)	
Dividends on capital stock (a)											
Cash	_	—	_	—		(53)	_	(53)	_	(53)	
Stock	33	3,280				(3,280)	_	(3,280)			
BALANCE, SEPTEMBER 30, 2021	12,188	\$ 1,218,773	9,361	\$ 936,121	\$1,	257,514	\$ 257,317	\$ 1,514,831	\$ 193,366	\$ 3,863,091	
BALANCE, JULY 1, 2020	9,693	\$ 969,269	15,049	\$ 1,504,866	\$1,	121,365	\$ 217,851	\$ 1,339,216	\$ (171,833)	\$ 3,641,518	
Net transfers of shares between Class B-1 and Class B-2 Stock	4,598	459,777	(4,598)	(459,777)		—	_	—	_	_	
Proceeds from sale of capital stock	23	2,306	2,414	241,454		—	_	_	—	243,760	
Repurchase/redemption of capital stock	(4,820)	(481,926)	—	—		—	_	_	—	(481,926)	
Shares reclassified to mandatorily redeemable capital stock	(609)	(60,980)	—	—		—	—	—	—	(60,980)	
Comprehensive income											
Net income	—	—	—	—		38,171	9,542	47,713	—	47,713	
Other comprehensive income	—	—	—	—		_	—	—	141,336	141,336	
Dividends on capital stock (b)											
Cash	—	—	_	—		(63)	—	(63)	—	(63)	
Mandatorily redeemable capital stock	_	_	_	_		(197)	_	(197)	—	(197)	
Stock	66	6,619				(6,619)		(6,619)			
BALANCE, SEPTEMBER 30, 2020	8,951	\$ 895,065	12,865	\$ 1,286,543	\$ 1,	152,657	\$ 227,393	\$ 1,380,050	\$ (30,497)	\$ 3,531,161	

Table of Contents

	Class B-1	embershin/Excess) (Activity) Retained Earnings			Retained Earnings			Retained Earnings			Accumulated Other Comprehensive	Total
	Shares	Par Value	Shares	Par Value	Unrestricted	Restricted	Total	Income (Loss)	Capital			
BALANCE, JANUARY 1, 2021	9,044	\$ 904,448	11,969	\$ 1,196,932	\$ 1,174,359	\$ 233,886	\$ 1,408,245	\$ 47,260	\$ 3,556,885			
Net transfers of shares between Class B-1 and Class B-2 Stock	12,688	1,268,787	(12,688)	(1,268,787)	—	_	—	_	_			
Proceeds from sale of capital stock	197	19,715	10,080	1,007,976	—	—	_	—	1,027,691			
Repurchase/redemption of capital stock	(9,845)	(984,548)	—	_	—	—	—	_	(984,548)			
Shares reclassified to mandatorily redeemable capital stock	_	(40)	_	_	_	_	_	_	(40)			
Comprehensive income												
Net income	—	—	_	_	93,726	23,431	117,157	_	117,157			
Other comprehensive income	—	—	_	_	—	—	_	146,106	146,106			
Dividends on capital stock <sup>(a)</sup>												
Cash	—	—	_	_	(160)	—	(160)	_	(160)			
Stock	104	10,411			(10,411)		(10,411)					
BALANCE, SEPTEMBER 30, 2021	12,188	\$ 1,218,773	9,361	\$ 936,121	\$ 1,257,514	\$ 257,317	\$ 1,514,831	\$ 193,366	\$ 3,863,091			
BALANCE, JANUARY 1, 2020	9,794	\$ 979,434	14,868	\$ 1,486,808	\$ 1,038,533	\$ 194,144	\$ 1,232,677	\$ 99,049	\$ 3,797,968			
Partial recovery of prior capital distribution to Financing Corporation (Note 14)		_	_	_	17,639	_	17,639	_	17,639			
Net transfers of shares between Class B-1 and Class B-2 Stock	12,920	1,291,979	(12,920)	(1,291,979)	_	_	_	_	_			
Proceeds from sale of capital stock	158	15,807	10,917	1,091,714	—	—	—	_	1,107,521			
Repurchase/redemption of capital stock	(13,651)	(1,365,117)	—	_	—	—	—	—	(1,365,117)			
Shares reclassified to mandatorily redeemable capital stock	(609)	(60,980)	_	_	_	_	_	_	(60,980)			
Adjustment to initially apply new credit loss accounting guidance (Note 9)	_	_	_	_	(2,191)	_	(2,191)	_	(2,191)			
Comprehensive income (loss)												
Net income	_	—	—	_	132,998	33,249	166,247	—	166,247			
Other comprehensive income (loss)	—	—	—	—	—	—	_	(129,546)	(129,546)			
Dividends on capital stock (b)												
Cash	_		_		(183)	_	(183)	_	(183)			
Mandatorily redeemable capital stock	_	_	_	_	(197)	_	(197)	_	(197)			
Stock	339	33,942			(33,942)		(33,942)					
BALANCE, SEPTEMBER 30, 2020	8,951	\$ 895,065	12,865	\$ 1,286,543	\$ 1,152,657	\$ 227,393	\$ 1,380,050	\$ (30,497)	\$ 3,531,161			

<sup>(a)</sup> Dividends were paid at annualized rates of 0.15 percent and 1.15 percent on Class B-1 Stock and Class B-2 Stock, respectively, in the first quarter of 2021, at annualized rates of 0.12 percent and 1.12 percent on Class B-1 Stock and Class B-2 Stock, respectively, in the second quarter of 2021 and at annualized rates of 0.10 percent and 1.10 percent on Class B-1 Stock and Class B-2 Stock, respectively, in the third quarter of 2021.

<sup>(b)</sup> Dividends were paid at annualized rates of 1.79 percent and 2.79 percent on Class B-1 Stock and Class B-2 Stock, respectively, in the first quarter of 2020, at annualized rates of 1.40 percent and 2.40 percent on Class B-1 Stock and Class B-2 Stock, respectively, in the second quarter of 2020 and at annualized rates of 0.35 percent and 1.35 percent on Class B-1 Stock and Class B-2 Stock, respectively, in the third quarter of 2020.

# FEDERAL HOME LOAN BANK OF DALLAS STATEMENTS OF CASH FLOWS (Unaudited, in thousands)

	For the Nine Months Ended September 30,		
	 2021	2020	
OPERATING ACTIVITIES			
Net income	\$ 117,157 \$	166,247	
Adjustments to reconcile net income to net cash provided by (used in) operating activities			
Depreciation and amortization			
Net premiums and discounts on advances, consolidated obligations, investments and mortgage loans	43,045	(14,526)	
Concessions on consolidated obligations	1,887	8,179	
Premises, equipment and computer software costs	3,959	2,806	
Non-cash interest on mandatorily redeemable capital stock	27	79	
Provision (reversal) for mortgage loan losses	(622)	2,415	
Gains on sales of available-for-sale securities	—	(773)	
Net gains on other assets carried at fair value	(1,153)	(302	
Net losses (gains) on trading securities	7,777	(13,973)	
Net change in derivative and hedging activities	506,865	(968,101)	
Decrease in accrued interest receivable	15,044	38,532	
Decrease (increase) in other assets	(2,800)	7,247	
Increase (decrease) in Affordable Housing Program (AHP) liability	(5,811)	4,530	
Increase (decrease) in accrued interest payable	16,752	(62,391)	
Increase in other liabilities	5,247	2,625	
Total adjustments	590,217	(993,653)	
Net cash provided by (used in) operating activities	 707,374	(827,406	
INVESTING ACTIVITIES			
Net decrease in interest-bearing deposits, including swap collateral pledged	11,155	541,054	
Net decrease (increase ) in securities purchased under agreements to resell	(9,750,000)	1,810,000	
Net decrease (increase) in federal funds sold	(2,209,000)	2,923,000	
Purchases of trading securities	(8,070,992)	(15,366,417	
Proceeds from maturities of trading securities	11,361,650	12,557,075	
Proceeds from sales of trading securities	1,493,529	3,449,477	
Proceeds from maturities of available-for-sale securities	219,232	249,597	
Proceeds from sales of available-for-sale securities	—	489,273	
Proceeds from maturities of held-to-maturity securities	223,100	212,571	
Principal collected on advances	463,265,046	246,423,070	
Advances made	(455,819,196)	(243,058,109	
Principal collected on mortgage loans held for portfolio	1,013,038	1,084,460	
Purchases of mortgage loans held for portfolio	(950,513)	(745,790	
Purchases of premises, equipment and computer software	 (4,281)	(4,555	
Net cash provided by investing activities	782,768	10,564,706	

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Table of Contents	For the Nine M	
	Septemb 2021	2020
FINANCING ACTIVITIES		
Net increase in deposit liabilities, including swap collateral held	199,387	101,557
Net proceeds from (payments on) derivative contracts with financing elements	49,571	(241,400)
Net proceeds from issuance of consolidated obligations		
Discount notes	23,935,360	107,739,535
Bonds	42,632,286	28,611,816
Debt issuance costs	(1,034)	(6,554)
Payments for maturing and retiring consolidated obligations		
Discount notes	(40,944,728)	(115,273,744)
Bonds	(30,334,285)	(30,348,250)
Proceeds from issuance of capital stock	1,027,691	1,107,521
Proceeds from issuance of mandatorily redeemable capital stock	22	—
Payments for redemption of mandatorily redeemable capital stock	(7,294)	(54,586)
Payments for repurchase/redemption of capital stock	(984,548)	(1,365,117)
Partial recovery of prior capital distribution to Financing Corporation (Note 14)	_	17,639
Cash dividends paid	(160)	(183)
Net cash used in financing activities	(4,427,732)	(9,711,766)
Net increase (decrease) in cash and cash equivalents	(2,937,590)	25,534
Cash and cash equivalents at beginning of the period	3,178,281	20,551
Cash and cash equivalents at end of the period	\$ 240,691	\$ 46,085
Supplemental Disclosures:		
Interest paid	\$ 93,648	\$ 559,076
AHP payments, net	\$ 18,831	\$ 13,950
Stock dividends issued	\$ 10,411	\$ 33,942
Dividends paid through issuance of mandatorily redeemable capital stock	<u> </u>	\$ 197
Net capital stock reclassified to mandatorily redeemable capital stock	\$ 40	\$ 60,980
Right-of-use assets acquired by lease	<u> </u>	\$ 730

#### FEDERAL HOME LOAN BANK OF DALLAS

#### NOTES TO INTERIM UNAUDITED FINANCIAL STATEMENTS

## Note 1—Basis of Presentation

The accompanying interim financial statements of the Federal Home Loan Bank of Dallas (the "Bank") are unaudited and have been prepared in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP") for interim financial information and with the instructions provided by Article 10, Rule 10-01 of Regulation S-X promulgated by the Securities and Exchange Commission ("SEC"). Accordingly, they do not include all of the information and disclosures required by generally accepted accounting principles for complete financial statements. The financial statements contain all adjustments that are, in the opinion of management, necessary for a fair statement of the Bank's financial position, results of operations and cash flows for the interim periods presented. All such adjustments were of a normal recurring nature. The results of operations for the periods presented are not necessarily indicative of the results to be expected for the full fiscal year or any other interim period.

The Bank's significant accounting policies and certain other disclosures are set forth in the notes to the audited financial statements for the year ended December 31, 2020. The interim financial statements presented herein should be read in conjunction with the Bank's audited financial statements and notes thereto, which are included in the Bank's Annual Report on Form 10-K for the year ended December 31, 2020 filed with the SEC on March 24, 2021 (the "2020 10-K"). The notes to the interim financial statements update and/or highlight significant changes to the notes included in the 2020 10-K.

The Bank is one of 11 district Federal Home Loan Banks, each individually a "FHLBank" and collectively the "FHLBanks," and, together with the Office of Finance, a joint office of the FHLBanks, the "FHLBank System." The Office of Finance manages the sale and servicing of the FHLBanks' consolidated obligations. The Federal Housing Finance Agency ("Finance Agency"), an independent agency in the executive branch of the U.S. government, supervises and regulates the housing government-sponsored enterprises ("GSEs"), including the FHLBanks and the Office of Finance.

Use of Estimates and Assumptions. The preparation of financial statements in conformity with U.S. GAAP requires management to make assumptions and estimates. These assumptions and estimates may affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities, and the reported amounts of income and expenses. Significant estimates include the valuations of the Bank's investment securities (including, but not limited to, its investments in mortgage-backed securities ("MBS")), as well as its derivative instruments and any associated hedged items. Actual results could differ from these estimates.

#### Note 2—Recently Issued Accounting Guidance

**Reference Rate Reform**. On March 12, 2020, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2020-04, *"Facilitation of the Effects of Reference Rate Reform on Financial Reporting"* ("ASU 2020-04"), which provides optional guidance for a limited period of time to ease the potential burden in accounting for (or recognizing the effects of) reference rate reform on financial reporting. ASU 2020-04 provides optional expedients and exceptions for applying U.S. GAAP to transactions affected by reference rate reform if certain criteria are met. These transactions include: (i) contract modifications, (ii) hedging relationships, and (iii) sales or transfers of debt securities classified as held-to-maturity.

ASU 2020-04 is effective from March 12, 2020 through December 31, 2022. An entity may elect to adopt the amendments for contract modifications as of any date from the beginning of an interim period that includes or is subsequent to March 12, 2020, or prospectively from a date within an interim period that includes or is subsequent to March 12, 2020, up to the date that the financial statements are available to be issued. An entity may elect to apply the amendments in ASU 2020-04 to eligible hedging relationships existing as of the beginning of the interim period that includes March 12, 2020 and to new eligible hedging relationships entered into after the beginning of the interim period that includes March 12, 2020 through December 31, 2022. The one-time election to sell, transfer, or both sell and transfer debt securities classified as held-to-maturity may be made at any time after March 12, 2020 but no later than December 31, 2022.

On January 7, 2021, the FASB issued ASU 2021-01, "*Reference Rate Reform*" ("ASU 2021-01"), which clarifies that an entity may elect to apply the optional expedients and exceptions in ASU 2020-04 for contract modifications and hedge accounting to derivative instruments that use an interest rate for margining, discounting or contract price alignment that is modified as a result of reference rate reform. An entity may elect to apply the amendments in ASU 2021-01 on a full retrospective basis as of any date from the beginning of an interim period that includes or is subsequent to March 12, 2020 or on a prospective basis to new modifications from any date within an interim period that includes or is subsequent to January 7, 2021, up to the date the financial statements are available to be issued. The amendments in ASU 2021-01 do not apply to contract modifications made after December 31, 2022, new hedging relationships entered into after December 31, 2022, or existing hedging relationships evaluated for effectiveness in periods after December 31, 2022, except for hedging relationships

existing as of December 31, 2022 that apply certain optional expedients in which the accounting effects are recorded through the end of the hedging relationship (including periods after December 31, 2022).

In October 2020, the third-party central clearinghouses with which the Bank transacts transitioned to the use of the Secured Overnight Financing Rate ("SOFR") for margining, discounting and contract price alignment. The Bank elected to retroactively apply the optional expedients and exceptions in ASU 2021-01 to its derivative contracts that were affected by these changes.

The Bank expects that it will elect to apply some of the expedients and exceptions provided in ASU 2020-04 relating to contract modifications, hedging relationships, and sales or transfers of held-to-maturity securities and it could apply the expedients and exceptions in ASU 2021-01 to additional derivative contracts in the future. However, the Bank has not yet determined the extent to which it will utilize these expedients and exceptions, nor the timing of when the expedients and exceptions will be elected and therefore the impact of the adoption of ASU 2020-04 and ASU 2021-01 on the Bank's financial condition and results of operations has not yet been determined.

**Troubled Debt Restructuring Relief.** On March 27, 2020, the Coronavirus Aid, Relief, and Economic Security Act (the "CARES Act"), was signed into law by the President of the United States. The CARES Act includes provisions that allow optional, temporary relief from accounting for certain modifications of loans that were not more than 30 days past due as of December 31, 2019 as troubled debt restructurings ("TDRs"). Specifically, under the provisions of the CARES Act, a qualifying financial institution may elect to suspend: (1) the requirements under U.S. GAAP for certain loan modifications that would otherwise be categorized as TDRs and (2) any determination that such loan modifications would be considered TDRs, including the related impairment for accounting purposes. The TDR relief provisions of the CARES Act apply to any modification that is related to an economic hardship as a result of the COVID-19 pandemic, including a forbearance arrangement, an interest rate modification, a repayment plan, or any other similar arrangement that defers or delays the payment of principal or interest, that occurs during the period from March 1, 2020 through the earlier of December 31, 2020 or the date that is 60 days after the termination of the national emergency concerning the COVID-19 pandemic. On December 27, 2020, the Consolidated Appropriations Act, 2021 (the "CAA") was signed into law by the President of the United States. The CAA includes provisions that extend the temporary relief provided under the CARES Act to modifications that occur through the earlier of January 1, 2022 or the date that is 60 days after the termination of the national emergency concerning the CARES Act to modifications that occur through the earlier of January 1, 2022 or the date that is 60 days after the termination of the national emergency concerning the cARES Act to modifications that occur through the earlier of January 1, 2022 or the date that is 60 days after the termination of the national emergency concerning the cARES Act to modific

The Bank has elected to apply the TDR relief provided by the CARES Act (as extended by the CAA). Accordingly, all modifications meeting the provisions of the CARES Act will be excluded from TDR classification, accounting and disclosure. Loan modifications that do not meet the provisions of the CARES Act will continue to be assessed for TDR classification under the Bank's existing accounting practices. To date, the election to apply the TDR relief provisions of the CARES Act has not had a material impact on the Bank's financial condition, results of operations or disclosures.

#### Note 3—Trading Securities

Trading securities as of September 30, 2021 and December 31, 2020 were as follows (in thousands):

	September 30, 2021			cember 31, 2020
U.S. Treasury Bills	\$		\$	3,316,241
U.S. Treasury Notes		208,024		1,985,227
Total	\$	208,024	\$	5,301,468

Included in the table above are U.S. Treasury Bills that were purchased but which had not yet settled as of December 31, 2020. The aggregate amount due of \$299,921,000 is included in other liabilities on the statement of condition at that date.

## Note 4—Available-for-Sale Securities

Major Security Types. Available-for-sale securities as of September 30, 2021 were as follows (in thousands):

	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
Debentures				
U.S. government-guaranteed obligations	\$ 420,664	\$ 3,934	\$ 429	\$ 424,169
GSE obligations	4,722,075	81,884	4,080	4,799,879
Other	44,928	78		45,006
	5,187,667	85,896	4,509	5,269,054
GSE commercial MBS	10,627,718	189,139	4,105	10,812,752
Total	\$ 15,815,385	\$ 275,035	\$ 8,614	\$ 16,081,806

Available-for-sale securities as of December 31, 2020 were as follows (in thousands):

	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
Debentures				
U.S. government-guaranteed obligations	\$ 437,351	\$ 4,100	\$ —	\$ 441,451
GSE obligations	4,950,604	84,538	3,209	5,031,933
Other	45,706	214		45,920
	5,433,661	88,852	3,209	5,519,304
GSE commercial MBS	11,181,740	103,934	17,216	11,268,458
Total	\$ 16,615,401	\$ 192,786	\$ 20,425	\$ 16,787,762

In the tables above, the amortized cost of the Bank's available-for-sale securities includes premiums, discounts and hedging adjustments. Amortized cost excludes accrued interest of \$59,086,000 and \$62,056,000 at September 30, 2021 and December 31, 2020, respectively.

Other debentures are comprised of securities issued by the Private Export Funding Corporation. These debentures are fully secured by U.S. government-guaranteed obligations and the payment of interest on the debentures is guaranteed by an agency of the U.S. government.

The following table summarizes (in thousands) the available-for-sale securities with unrealized losses as of September 30, 2021. The unrealized losses are aggregated by major security type and length of time that individual securities have been in a continuous loss position.

	Less than	12 M	lonths		12 Month	is oi	More		Τα		
E	stimated Fair Value	Gross Unrealized Losses			Estimated Fair Value		Gross Unrealized Losses	Estimated Fair Value		τ	Gross Unrealized Losses
				_							
\$	115,435	\$	429	\$		\$	_	\$	115,435	\$	429
	_		—		129,980		4,080		129,980		4,080
	69,783		3,370		33,760		735		103,543		4,105
\$	185,218	\$	3,799	\$	163,740	\$	4,815	\$	348,958	\$	8,614
		Estimated Fair Value \$ 115,435 	Estimated Fair     U       Value     0       \$ 115,435     \$       69,783     0	Fair Value     Unrealized Losses       \$ 115,435     \$ 429	Estimated Fair ValueGross Unrealized Losses\$ 115,435\$ 429\$ 115,435\$ 42969,7833,370	Estimated Fair ValueGross Unrealized LossesEstimated Fair Value\$ 115,435\$ 429\$129,98069,7833,37033,760	Estimated Fair ValueGross Unrealized LossesEstimated Fair Value\$ 115,435\$ 429\$\$129,98069,7833,37033,760	Estimated Fair ValueGross Unrealized LossesEstimated Fair ValueGross Unrealized Losses\$ 115,435\$ 429\$\$129,9804,08069,7833,37033,760735	Estimated Fair ValueGross Unrealized LossesEstimated Fair ValueGross Unrealized Losses\$ 115,435\$ 429\$\$\$129,9804,08069,7833,37033,760735	Estimated Fair ValueGross Unrealized LossesEstimated Fair ValueGross Unrealized LossesEstimated Fair Value\$ 115,435\$ 429\$\$\$ 115,435129,9804,080129,98069,7833,37033,760735103,543	Estimated Fair ValueGross Unrealized LossesEstimated Fair ValueGross Unrealized LossesEstimated Fair Value\$ 115,435\$ 429\$\$\$ 115,435\$129,9804,080129,98069,7833,37033,760735103,543

The following table summarizes (in thousands) the available-for-sale securities with unrealized losses as of December 31, 2020. The unrealized losses are aggregated by major security type and length of time that individual securities have been in a continuous loss position.

		Less than	12 M	lonths		12 Month	is o	or More		Total			
	E	Estimated Fair Value		Gross Unrealized Losses		Estimated Fair Value		Gross Unrealized Losses		Estimated Fair Value	U	Gross nrealized Losses	
GSE debentures	\$	120,876	\$	1,492	\$	51,151	\$	1,717	\$	172,027	\$	3,209	
GSE commercial MBS		262,908		2,240		2,502,312	_	14,976		2,765,220		17,216	
Total	\$	383,784	\$	3,732	\$	2,553,463	\$	16,693	\$	2,937,247	\$	20,425	

**Redemption Terms.** The amortized cost and estimated fair value of available-for-sale securities by contractual maturity at September 30, 2021 and December 31, 2020 are presented below (in thousands).

	Septemb	er 30, 2021	Decembe	er 31, 2020			
Maturity	Amortized Cost	Estimated Fair Value	Amortized Cost	Estimated Fair Value			
Debentures							
Due in one year or less	\$ 1,399,734	\$ 1,400,676	\$ 312,237	\$ 313,167			
Due after one year through five years	3,230,314	3,290,655	3,488,066	3,530,155			
Due after five years through ten years	557,619	577,723	1,617,134	1,658,599			
Due after ten years	—		16,224	17,383			
	5,187,667	5,269,054	5,433,661	5,519,304			
GSE commercial MBS	10,627,718	10,812,752	11,181,740	11,268,458			
Total	\$15,815,385	\$ 16,081,806	\$16,615,401	\$ 16,787,762			

**Interest Rate Payment Terms.** At September 30, 2021 and December 31, 2020, all of the Bank's available-for-sale securities were fixed rate securities which were swapped to a variable rate.

**Sales of Securities.** During the three and nine months ended September 30, 2020, the Bank sold available-for-sale securities with an amortized cost (determined by the specific identification method) of \$488,500,000. Proceeds from the sales totaled \$489,273,000, resulting in realized gains of \$773,000. There were no sales of available-for-sale securities during the nine months ended September 30, 2021.

## Note 5—Held-to-Maturity Securities

Major Security Types. Held-to-maturity securities as of September 30, 2021 were as follows (in thousands):

	A	amortized Cost	Non-credit OTTI Recorded in Accumulated Other Comprehensive Income (Loss)		Carrying Value		Gross Unrecognized Holding Gains		Gross Unrecognized Holding Losses		F	Estimated Fair Value
Debentures												
U.S. government-guaranteed obligations	\$	2,747	\$	_	\$	2,747	\$	3	\$	_	\$	2,750
State housing agency obligations		109,863				109,863		145		382		109,626
		112,610		—		112,610		148		382		112,376
Mortgage-backed securities												
GSE residential MBS		529,471		_		529,471		5,250		7		534,714
Non-agency residential MBS		39,123		4,912		34,211		8,628		578		42,261
		568,594		4,912		563,682		13,878		585		576,975
Total	\$	681,204	\$	4,912	\$	676,292	\$	14,026	\$	967	\$	689,351

Held-to-maturity securities as of December 31, 2020 were as follows (in thousands):

	A	Amortized Cost	Non-credit OTTI Recorded in Accumulated Other Comprehensive Income (Loss)		Carrying Value		Gross Unrecognized Holding Gains		Gross Unrecognized Holding Losses		F	Estimated Fair Value
Debentures												
U.S. government-guaranteed obligations	\$	4,119	\$	_	\$	4,119	\$	5	\$		\$	4,124
State housing agency obligations		109,698				109,698		228	_	438		109,488
		113,817				113,817		233		438		113,612
Mortgage-backed securities												
GSE residential MBS		740,108				740,108		4,213		148		744,173
Non-agency residential MBS		49,703		6,402		43,301		8,476		932		50,845
		789,811		6,402		783,409		12,689		1,080		795,018
Total	\$	903,628	\$	6,402	\$	897,226	\$	12,922	\$	1,518	\$	908,630

In the tables above, amortized cost includes premiums, discounts and the credit portion of other-than-temporary impairments ("OTTI") recorded prior to January 1, 2020. Amortized cost excludes accrued interest of \$182,000 and \$235,000 at September 30, 2021 and December 31, 2020, respectively.

**Redemption Terms.** The amortized cost, carrying value and estimated fair value of held-to-maturity securities by contractual maturity at September 30, 2021 and December 31, 2020 are presented below (in thousands). The expected maturities of some debentures could differ from the contractual maturities presented because issuers may have the right to call such debentures prior to their final stated maturities.

	September 30, 2021						December 31, 2020					
Maturity	A	Amortized Cost		Carrying Value		Estimated Fair Value	A	Amortized Cost		Carrying Value		Estimated Fair Value
Debentures												
Due in one year or less	\$	500	\$	500	\$	500	\$		\$		\$	
Due after one year through five years		2,247		2,247		2,250		4,119		4,119		4,124
Due after five years through ten years		35,000		35,000		34,618		35,000		35,000		34,562
Due after ten years		74,863		74,863		75,008		74,698		74,698		74,926
		112,610		112,610		112,376		113,817		113,817		113,612
Mortgage-backed securities		568,594		563,682		576,975		789,811		783,409		795,018
Total	\$	681,204	\$	676,292	\$	689,351	\$	903,628	\$	897,226	\$	908,630
			_		_		_		_			

The amortized cost of the Bank's mortgage-backed securities classified as held-to-maturity includes net purchase discounts of \$1,082,000 and \$1,338,000 at September 30, 2021 and December 31, 2020, respectively.

**Interest Rate Payment Terms.** The following table provides interest rate payment terms for investment securities classified as held-to-maturity at September 30, 2021 and December 31, 2020 (in thousands):

	Septe	ember 30, 2021	Dece	mber 31, 2020
Amortized cost of variable-rate held-to-maturity securities other than MBS	\$	112,610	\$	113,817
Amortized cost of held-to-maturity MBS				
Fixed-rate pass-through securities		5		19
Collateralized mortgage obligations				
Fixed-rate				11
Variable-rate		568,589		789,781
		568,594		789,811
Total	\$	681,204	\$	903,628

All of the Bank's variable-rate collateralized mortgage obligations classified as held-to-maturity securities have coupon rates that are subject to interest rate caps, none of which were reached during 2020 or the nine months ended September 30, 2021.

## Note 6—Advances

**Redemption Terms.** At September 30, 2021 and December 31, 2020, the Bank had advances outstanding at interest rates ranging from 0.11 percent to 8.27 percent and 0.06 percent to 8.27 percent, respectively, as summarized below (dollars in thousands).

	Septembe	er 30, 2021	December 31, 2020			
Contractual Maturity	Amount	Weighted Average Interest Rate	Amount	Weighted Average Interest Rate		
Overdrawn demand deposit accounts	\$	<u>          %</u>	\$ 6	0.20 %		
Due in one year or less	7,255,010	0.42	11,341,900	0.47		
Due after one year through two years	1,276,741	1.63	1,123,710	1.98		
Due after two years through three years	1,278,691	1.87	1,145,383	1.77		
Due after three years through four years	1,479,058	0.91	1,310,258	1.67		
Due after four years through five years	1,366,526	0.55	1,626,621	0.86		
Due after five years	11,813,074	0.90	15,367,071	0.77		
Total par value	24,469,100	0.83 %	31,914,949	0.79 %		
Deferred net prepayment fees	(6,269)	)	(7,168)			
Commitment fees	(39)	)	(91)			
Hedging adjustments	313,198		571,254			
Total	\$ 24,775,990	-	\$ 32,478,944			

Advances presented in the table above exclude accrued interest of \$16,880,000 and \$21,131,000 at September 30, 2021 and December 31, 2020, respectively.

The Bank offers advances to members that may be prepaid on specified dates without the member incurring prepayment or termination fees (prepayable and callable advances). The prepayment of other advances requires the payment of a fee to the Bank (prepayment fee) if necessary to make the Bank financially indifferent to the prepayment of the advance. At September 30, 2021 and December 31, 2020, the Bank had aggregate prepayable and callable advances totaling \$5,177,107,000 and \$8,688,158,000, respectively.

The following table summarizes advances outstanding at September 30, 2021 and December 31, 2020, by the earlier of contractual maturity or next call date, or the first date on which prepayable advances can be repaid without a prepayment fee (in thousands):

Contractual Maturity or Next Call Date	September 30, 2021	December 31, 2020
Overdrawn demand deposit accounts	\$	\$ 6
Due in one year or less	12,241,311	19,845,878
Due after one year through two years	1,247,450	1,037,233
Due after two years through three years	1,137,037	1,113,822
Due after three years through four years	1,124,940	966,200
Due after four years through five years	385,778	837,869
Due after five years	8,332,584	8,113,941
Total par value	\$ 24,469,100	\$ 31,914,949

The Bank also offers putable advances. With a putable advance, the Bank purchases a put option from the member that allows the Bank to terminate the fixed-rate advance on specified dates and offer, subject to certain conditions, replacement funding at prevailing market rates. At both September 30, 2021 and December 31, 2020, the Bank had putable advances outstanding totaling \$7,495,800,000.

The following table summarizes advances outstanding at September 30, 2021 and December 31, 2020, by the earlier of contractual maturity or next possible put date (in thousands):

Contractual Maturity or Next Put Date	September 30, 2021	December 31, 2020
Overdrawn demand deposit accounts	\$	\$ 6
Due in one year or less	14,640,810	18,172,700
Due after one year through two years	1,366,741	1,678,710
Due after two years through three years	1,228,491	1,229,183
Due after three years through four years	1,424,058	1,266,258
Due after four years through five years	1,366,526	1,571,621
Due after five years	4,442,474	7,996,471
Total par value	\$ 24,469,100	\$ 31,914,949

**Interest Rate Payment Terms.** The following table provides interest rate payment terms for advances outstanding at September 30, 2021 and December 31, 2020 (in thousands):

	Sept	tember 30, 2021	De	cember 31, 2020
Fixed-rate				
Due in one year or less	\$	7,160,540	\$	11,131,901
Due after one year		11,366,468		11,961,692
Total fixed-rate		18,527,008		23,093,593
Variable-rate				
Due in one year or less		94,470		210,005
Due after one year		5,847,622		8,611,351
Total variable-rate		5,942,092		8,821,356
Total par value	\$	24,469,100	\$	31,914,949

At September 30, 2021 and December 31, 2020, 56 percent and 57 percent, respectively, of the Bank's fixed-rate advances were swapped to a variable rate.

**Prepayment Fees.** When a member/borrower prepays an advance, the Bank could suffer lower future income if the principal portion of the prepaid advance is reinvested in lower-yielding assets. To protect against this risk, the Bank generally charges a prepayment fee that makes it financially indifferent to a borrower's decision to prepay an advance. The Bank records prepayment fees received from members/borrowers on prepaid advances net of any associated hedging adjustments on those

advances. These fees are reflected as interest income in the statements of income either immediately (as prepayment fees on advances) or over time (as interest income on advances) as further described below. In cases in which the Bank funds a new advance concurrent with or within a short period of time before or after the prepayment of an existing advance and the advance meets the accounting criteria to qualify as a modification of the prepaid advance, the net prepayment fee on the prepaid advance is deferred, recorded in the basis of the modified advance, and amortized into interest income on advances over the life of the modified advance using the level-yield method. During the three months ended September 30, 2021, gross advance prepayment fees received from members/borrowers were \$2,180,000, none of which were deferred. During the nine months ended September 30, 2021, gross advance prepayment fees received from members/borrowers were \$61,657,000 and \$67,686,000, respectively, none of which were deferred.

#### Note 7-Mortgage Loans Held for Portfolio

Mortgage loans held for portfolio represent held-for-investment loans acquired through the Mortgage Partnership Finance<sup>®</sup> ("MPF"<sup>®</sup>) program. The following table presents information as of September 30, 2021 and December 31, 2020 for mortgage loans held for portfolio (in thousands):

	September 30, 2021	December 31, 2020
Fixed-rate medium-term* single-family mortgages	\$ 123,008	\$ 98,957
Fixed-rate long-term single-family mortgages	3,146,511	3,252,276
Premiums	65,818	66,008
Discounts	(1,135)	(1,267)
Deferred net derivative gains associated with mortgage delivery commitments	6,922	10,637
Total mortgage loans held for portfolio	3,341,124	3,426,611
Less: allowance for credit losses on mortgage loans	(3,303)	(3,925)
Total mortgage loans held for portfolio, net of allowance for credit losses	\$ 3,337,821	\$ 3,422,686

\*Medium-term is defined as an original term of 15 years or less.

Mortgage loans presented in the table above exclude accrued interest receivable of \$14,758,000 and \$16,765,000 at September 30, 2021 and December 31, 2020, respectively.

The unpaid principal balance of mortgage loans held for portfolio at September 30, 2021 and December 31, 2020 was comprised of conventional loans totaling \$3,260,574,000 and \$3,340,535,000, respectively, and government-guaranteed/insured loans totaling \$8,945,000 and \$10,698,000, respectively.

#### Note 8—Accrued Interest Receivable

The components of accrued interest receivable as of September 30, 2021 and December 31, 2020 were as follows (in thousands):

	Septem	ber 30, 2021	December 31, 2020
Advances	\$	16,880	\$ 21,131
Investment securities			
Trading		310	6,078
Available-for-sale		59,086	62,056
Held-to-maturity		182	235
Mortgage loans held for portfolio		14,758	16,765
Interest-bearing deposits		53	51
Securities purchased under agreements to resell		15	3
Federal funds sold		6	3
Total	\$	91,290	\$ 106,322

#### Note 9—Allowance for Credit Losses

On January 1, 2020, the Bank adopted new accounting guidance pertaining to the measurement of credit losses on financial instruments. This guidance replaced the previous incurred loss methodology with an expected credit loss methodology. In conjunction with the adoption of this guidance, the Bank recorded (on January 1, 2020) a cumulative effect adjustment to retained earnings of \$2,191,000 and a corresponding increase in the allowance for credit losses on mortgage loans held for portfolio.

As of the balance sheet date, an allowance for credit losses is separately established, if necessary, for each of the Bank's financial instruments carried at amortized cost, its available-for-sale securities and its off-balance sheet credit exposures. Expected credit losses on these financial instruments are recorded through an allowance for credit losses. The allowance for credit losses is the amount necessary to reduce the amortized cost of financial instruments carried at amortized cost to the net amount expected to be collected and the amortized cost of available-for-sale securities to the higher of the security's fair value or the present value of the cash flows expected to be collected from the security. To the extent necessary, an allowance for credit losses for off-balance sheet credit exposures is recorded as a liability.

**Short-Term Investments.** The Bank invests in overnight interest-bearing deposits, overnight Federal Funds sold and overnight securities purchased under agreements to resell. These investments provide short-term liquidity and are carried at amortized cost. All investments in Federal Funds sold, interest-bearing deposits and securities purchased under agreements to resell that were outstanding at September 30, 2021 were repaid according to their contractual terms. Accordingly, no allowance for credit losses was recorded on these assets at September 30, 2021.

**Long-Term Investments.** The Bank evaluates its available-for-sale securities for impairment by comparing the security's fair value to its amortized cost. Impairment exists when the fair value of the investment is less than its amortized cost (i.e., when the security is in an unrealized loss position). The Bank evaluates each impaired security to determine whether the impairment is due to credit losses. Held-to-maturity securities are evaluated for impairment on a pooled basis, unless an individual assessment is deemed necessary because the securities do not contain similar risk characteristics.

At September 30, 2021, the gross unrealized losses on the Bank's available-for-sale securities were \$8,614,000, all of which related to securities that are either guaranteed by the U.S. government or issued and guaranteed by GSEs. At September 30, 2021, the gross unrealized losses on the Bank's held-to-maturity securities (computed as the difference between the amortized cost and the fair value of the securities) were \$1,366,000, of which \$977,000 was attributable to its holdings of non-agency (i.e., private-label) residential MBS ("RMBS"), \$382,000 was attributable to a security issued by a state housing agency and \$7,000 was attributable to securities that are issued and guaranteed by GSEs. At that same date, there were no unrealized losses on any of the Bank's holdings of U.S. government-guaranteed debentures classified as held-to-maturity securities.

Government-Guaranteed and GSE Investments. As of September 30, 2021, the U.S. government and the issuers of the Bank's holdings of GSE debentures, GSE commercial MBS ("CMBS") and GSE RMBS were rated triple-A by Moody's Investors Service ("Moody's") and AA+ by S&P Global Ratings ("S&P"). Through September 30, 2021, the Bank has not experienced any defaults on its government-guaranteed debentures or GSE RMBS and it has experienced only one default on its GSE CMBS, which default occurred in 2020. In the event of a default, the guarantor is required to repurchase the security at its par value and thus the Bank's exposure is limited to the amount of any unamortized premiums and/or positive fair value hedge accounting adjustments included in the amortized cost basis of the investment. Based upon the Bank's assessment of the creditworthiness of the issuers of the GSE debentures that were in an unrealized loss position at September 30, 2021 and the credit ratings assigned by Moody's and S&P, the Bank expects that these debentures would not be settled at an amount less than the Bank's amortized cost bases in the investments. In addition, based upon the Bank's assessment of the strength of the GSEs' guarantees of the Bank's holdings of GSE CMBS and GSE RMBS and the credit ratings assigned by Moody's and S&P, the Bank expects that the amounts to be collected on its holdings of GSE MBS will not be less than the Bank's amortized cost bases in these investments (or, in the rare circumstance of a default, the amount to be collected would not be expected to be significantly less than the Bank's amortized cost basis in the investment). The Bank does not intend to sell the investments and it is not more likely than not that the Bank will be required to sell the investments before recovery of their amortized cost bases. Because the current market value deficits associated with the Bank's available-for-sale securities are not attributable to credit quality, and because the amount expected to be collected on its held-to-maturity securities is not less than the amortized cost of these investments, the Bank has determined that the credit losses on its GSE investments, if any, would be insignificant and, therefore, the Bank did not provide an allowance for credit losses on these investments at September 30, 2021.

*State Housing Agency Debentures.* As of September 30, 2021, the Bank's holdings of state housing agency bonds are rated triple-A by both Moody's and S&P. The Bank has not experienced any defaults on its state housing agency debentures, nor does it expect to experience any defaults on these securities. Based upon the Bank's assessment of the creditworthiness of the state housing agency and the credit ratings assigned by Moody's and S&P, the Bank expects that the amounts to be collected on its holdings of state housing agency debentures will not be less than the amortized cost basis of these investments. Because the

Bank does not intend to sell the investments and it is not more likely than not that the Bank will be required to sell the investments before recovery of their amortized cost bases, the Bank does not consider an allowance for credit losses on its state housing debentures to be necessary at September 30, 2021.

*Non-Agency RMBS.* As of September 30, 2021, 5 of the Bank's non-agency RMBS with an aggregate amortized cost of \$8,185,000 were rated investment grade (i.e., triple-B or higher by Moody's and/or S&P), 16 non-agency RMBS with an aggregate amortized cost of \$30,896,000 were rated below investment grade and 1 non-agency RMBS with an amortized cost of \$42,000 was unrated. In periods prior to 2017, 15 of the non-agency RMBS that were rated below investment grade at September 30, 2021 had been determined to be other-than-temporarily impaired. At September 30, 2021 and December 31, 2020, the amortized cost of the Bank's non-agency RMBS included credit losses of \$6,067,000 and \$6,293,000, respectively, on these previously impaired securities.

Because the ultimate receipt of contractual payments on the Bank's non-agency RMBS will depend upon the credit and prepayment performance of the underlying loans and the credit enhancements for the senior securities owned by the Bank, the Bank monitors these investments in an effort to determine whether the credit enhancement associated with each security is sufficient to protect against potential losses of principal and interest on the underlying mortgage loans. The credit enhancement for each of the Bank's non-agency RMBS is provided by a senior/subordinate structure, and none of the securities owned by the Bank are insured by third-party bond insurers. More specifically, each of the Bank's non-agency RMBS represents a single security class within a securitization that has multiple classes of securities. Each security class has a distinct claim on the cash flows from the underlying mortgage loans, with the subordinate securities having a junior claim relative to the more senior securities. The Bank's non-agency RMBS have a senior claim on the cash flows from the underlying mortgage loans.

At September 30, 2021, the Bank considered the potential impact that recent changes in economic and housing market conditions could have on the collectibility of these securities relative to the assumptions underlying its evaluation as of December 31, 2020 to determine whether it expected to incur any additional credit losses on these securities. Based on that evaluation, the payment status of the securities and the considerations regarding the potential impact that recent changes in economic and housing market conditions could have on the securities' cash flows, the Bank determined it is likely that it will fully recover the remaining amortized cost bases of all of its non-agency RMBS. Because the Bank does not intend to sell the investments and it is not more likely than not that the Bank will be required to sell the investments before recovery of their remaining amortized cost bases, no allowance for credit losses on the Bank's non-agency RMBS was deemed to be necessary at September 30, 2021.

**Standby Bond Purchase Agreements.** The Bank has entered into standby bond purchase agreements with a state housing finance agency within its district whereby, for a fee, the Bank agrees to serve as a standby liquidity provider. If required, the Bank will purchase and hold the housing finance agency's bonds until the designated marketing agent can find a suitable investor or the housing finance agency repurchases the bonds according to a schedule established by the agreement. To date, the Bank has never been required to purchase a bond under its standby bond purchase agreements. In addition, the agreements contain provisions that allow the Bank to terminate the agreement if the housing finance agency's credit rating, or the rating of the bonds underlying the agreements, decline to a level below investment grade. Based on these provisions, the high credit quality of the housing finance agency and the unlikelihood that the Bank will be required to repurchase the bonds, an allowance for credit losses on standby bond purchase agreements was not considered necessary at September 30, 2021.

**Financing Receivables.** A portfolio segment is defined as the level at which an entity develops and documents a systematic method for determining its allowance for credit losses on financing receivables which, for the Bank, includes off-balance sheet credit exposures to members. The Bank has developed and documented a systematic methodology for determining an allowance for credit losses for the following portfolio segments: (1) advances and other extensions of credit to members/ borrowers, collectively referred to as "extensions of credit to members"; (2) government-guaranteed/insured mortgage loans held for portfolio.

Classes of financing receivables are generally a disaggregation of a portfolio segment and are determined on the basis of their initial measurement attribute, the risk characteristics of the financing receivable and an entity's method for monitoring and assessing credit risk. Because the credit risk arising from the Bank's financing receivables is assessed and measured at the portfolio segment level, the Bank does not have separate classes of financing receivables within each of its portfolio segments.

Advances and Other Extensions of Credit to Members. In accordance with federal statutes, including the Federal Home Loan Bank Act of 1932, as amended (the "FHLB Act"), the Bank lends to financial institutions within its five-state district that are involved in housing finance. The FHLB Act requires the Bank to obtain and maintain sufficient collateral for advances and other extensions of credit to protect against losses. The Bank makes advances and otherwise extends credit only against eligible collateral, as defined by regulation. To ensure the value of collateral pledged to the Bank is sufficient to secure its advances and other extensions of credit, the Bank applies various haircuts, or discounts, to the collateral to determine the value against which borrowers may borrow. As additional security, the Bank has a statutory lien on each borrower's capital stock in the Bank. The

Bank has procedures in place for validating the reasonableness of its collateral valuations. In addition, collateral verifications and on-site reviews are performed based on the risk profile of the borrower.

On at least a quarterly basis, the Bank evaluates all outstanding extensions of credit to members/borrowers for potential credit losses. These evaluations include a review of: (1) the amount, type and performance of collateral available to secure the outstanding obligations; (2) metrics that may be indicative of changes in the financial condition and general creditworthiness of the member/borrower; and (3) the payment status of the obligations. Any outstanding obligations of credit that exhibit a potential credit weakness that could jeopardize the full collection of the outstanding obligations would be classified as substandard, doubtful or loss. The Bank did not have any advances or other extensions of credit to members/borrowers that were classified as substandard, doubtful or loss at September 30, 2021 or December 31, 2020.

The Bank considers the amount, type and performance of collateral to be the primary indicator of credit quality with respect to its extensions of credit to members/borrowers. At September 30, 2021 and December 31, 2020, the Bank had rights to collateral on a borrower-by-borrower basis with an estimated value in excess of each borrower's outstanding extensions of credit.

The Bank continues to evaluate and, as necessary, modify its credit extension and collateral policies based on market conditions. At September 30, 2021 and December 31, 2020, the Bank did not have any advances that were past due or on nonaccrual status. There have been no troubled debt restructurings related to advances.

The Bank has never experienced a credit loss on an advance or any other extension of credit to a member/borrower and, based on its credit extension and collateral policies, management currently does not anticipate any credit losses on its extensions of credit to members/borrowers. Accordingly, the Bank has not provided any allowance for credit losses on advances, nor has it recorded any liabilities to reflect an allowance for credit losses related to its off-balance sheet credit exposures to members.

*Mortgage Loans* — *Government-guaranteed or government-insured.* The Bank's government-guaranteed or government-insured fixed-rate mortgage loans are guaranteed or insured by the Federal Housing Administration or the Department of Veterans Affairs and were acquired through the MPF program (as more fully described in the Bank's 2020 10-K) in periods prior to 2004. Any losses from these loans are expected to be recovered from those entities. Any losses from these loans that are not recovered from those entities are absorbed by the servicers. Therefore, the Bank has not established an allowance for credit losses on government-guaranteed or government-insured mortgage loans. Government-guaranteed or government-insured loans are not placed on nonaccrual status.

*Mortgage Loans* — *Conventional Mortgage Loans*. The Bank's conventional mortgage loans have also been acquired through the MPF program. The allowance for credit losses on conventional mortgage loans is determined by an analysis that includes consideration of various data such as past performance, current performance, projected performance, loan portfolio characteristics, collateral-related characteristics, prevailing economic conditions and reasonable and supportable forecasts of expected economic conditions. The allowance for credit losses on conventional mortgage loans also factors in the credit enhancement under the MPF program. The Bank does not record an allowance for credit losses that are expected to be recovered from the credit enhancements.

The Bank places a conventional mortgage loan on nonaccrual status when the collection of the contractual principal or interest is 90 days or more past due. When a mortgage loan is placed on nonaccrual status, accrued but uncollected interest is reversed against interest income. The Bank records cash payments received on nonaccrual loans as a reduction of principal. A loan on nonaccrual status is restored to accrual status when none of its contractual principal and interest is due and unpaid, and the Bank expects repayment of the remaining contractual interest and principal. At September 30, 2021 and December 31, 2020, interest payments received on nonaccrual loans and recorded as a reduction of principal totaled \$3,599,000 and \$1,555,000, respectively.

Collateral-dependent mortgage loans that are 90 days or more past due are evaluated for credit losses an individual basis based on the fair value of the underlying mortgaged property less estimated selling costs. Loans are considered collateral-dependent if repayment is expected to be provided solely by the sale of the underlying property; that is, there is no other available and reliable source of repayment.

The Bank evaluates whether to record a charge-off on a conventional mortgage loan when the loan becomes 180 days or more past due or upon the occurrence of a confirming event, whichever occurs first. Confirming events include, but are not limited to, the occurrence of foreclosure or notification of a claim against any of the credit enhancements. A charge-off is recorded if the amount expected to be collected on the loan is less than its amortized cost.

As discussed in Note 2, the CARES Act provides temporary relief from the accounting and reporting requirements for certain loan modifications related to COVID-19 that would otherwise be categorized as a TDR. Eligible mortgage loans that are current under the modified terms of the loan agreements are returned to accrual status as long as the Bank expects repayment of the remaining contractual principal and interest. As of September 30, 2021, the Bank had entered into qualifying loan modifications on loans with an aggregate unpaid principal balance of approximately \$14,222,000. These loan modifications

allowed the borrowers to defer past due principal and interest payments until the earlier of the date on which the loan is prepaid or the end of the loan term. In aggregate, the amounts deferred were insignificant.

The servicers of the Bank's mortgage loans may grant a forbearance period to borrowers who request forbearance as a result of difficulties relating to COVID-19 regardless of the status of the loan at the time of the request. During the forbearance period, the Bank accounts for these loans in the same manner as it accounts for any other past due loans whether the forbearance arrangement is formal or informal. The accrual status of mortgage loans in forbearance is determined by the past due status of the loan as the legal terms of the loan agreement remain unchanged during this period.

The Bank considers the key credit quality indicator for conventional mortgage loans to be the payment status of each loan. The table below summarizes the amortized cost (excluding accrued interest receivable) by payment status for mortgage loans at September 30, 2021 and December 31, 2020 (dollars in thousands).

		September 30, 2021									
	Loan	Conventional Loans Originated Prior to 2017Conventional Loans Originated in 2017-2021Total Conventional LoansGovernment- Guaranteed/ Insured Loans (1)		Loans Originated		Loans Originated			Total		
Mortgage loans:											
30-59 days delinquent	\$	519	\$	20,521	\$	21,040	\$	172	\$	21,212	
60-89 days delinquent		433		4,624		5,057		110		5,167	
90 days or more delinquent	_	1,033		49,562		50,595		212		50,807	
Total past due		1,985		74,707		76,692		494		77,186	
Total current loans		26,610		3,228,845		3,255,455		8,483		3,263,938	
Total mortgage loans	\$	28,595	\$	3,303,552	\$	3,332,147	\$	8,977	\$	3,341,124	

		December 31, 2020									
	Loans O	Conventional Loans Originated Prior to 2004		Conventional Loans Originated in 2016-2020		Total Conventional Loans		Government- Guaranteed/ Insured Loans <sup>(1)</sup>		Total	
Mortgage loans:											
30-59 days delinquent	\$	113	\$	26,500	\$	26,613	\$	459	\$	27,072	
60-89 days delinquent		21		10,693		10,714		49		10,763	
90 days or more delinquent		274		97,085		97,359		239		97,598	
Total past due		408		134,278		134,686		747		135,433	
Total current loans		7,746		3,273,438		3,281,184		9,994		3,291,178	
Total mortgage loans	\$	8,154	\$	3,407,716	\$	3,415,870	\$	10,741	\$	3,426,611	

<sup>(1)</sup> All of the Bank's government-guaranteed/insured loans were originated in years prior to 2004.

The table below summarizes other delinquency statistics for mortgage loans at September 30, 2021 and December 31, 2020 (dollars in thousands).

	September 30, 2021						December 31, 2020						
	Co	Total nventional Loans	Gua	ernment- aranteed/ red Loans		Total	Co	Total nventional Loans	Gu	vernment- aranteed/ ıred Loans		Total	
In process of foreclosure <sup>(1)</sup>	\$	722	\$	60	\$	782	\$	1,381	\$	64	\$	1,445	
Serious delinquency rate (2)		1.5 %		2.4 %		1.5 %		2.9 %		2.2 %		2.8 %	
Past due 90 days or more and still accruing interest <sup>(3)</sup>	\$		\$	212	\$	212	\$		\$	239	\$	239	
Nonaccrual loans (4)	\$	65,526	\$		\$	65,526	\$	117,958	\$		\$	117,958	
Troubled debt restructurings	\$	127	\$		\$	127	\$		\$		\$	_	

<sup>(1)</sup> Includes loans where the decision of foreclosure or similar alternative such as pursuit of deed-in-lieu has been made.

<sup>(2)</sup> Loans that are 90 days or more past due or in the process of foreclosure expressed as a percentage of the loan portfolio.

<sup>(3)</sup> Only government-guaranteed/insured mortgage loans continue to accrue interest after they become 90 days or more past due.`

<sup>(4)</sup> The Bank did not have any specific allowance for credit losses on nonaccrual loans at September 30, 2021.

As of September 30, 2021, approximately \$25,175,000 (unpaid principal balance) of past due conventional loans were in forbearance as a result of COVID-19. Approximately \$2,966,000 were 30 to 59 days past due, \$2,338,000 were 60 to 89 days past due, and \$19,871,000 were 90 days or more past due and in nonaccrual status. As of December 31, 2020, approximately \$90,354,000 (unpaid principal balance) of past due conventional loans were in forbearance as a result of COVID-19. Approximately \$6,615,000 were 30 to 59 days past due, \$6,724,000 were 60 to 89 days past due, and \$77,015,000 were 90 days or more past due and in nonaccrual status. At December 31, 2020, the Bank's other assets included \$300,000 of real estate owned. The Bank did not have any real estate owned at September 30, 2021.

The Bank individually reviews each seriously delinquent mortgage loan and each TDR for credit losses. At September 30, 2021 and December 31, 2020, the estimated value of the collateral securing each of these loans, plus the estimated amount that can be recovered through credit enhancements and mortgage insurance, if any, exceeded the amortized cost basis of the loans. Therefore, no allowance for credit losses was established for any of the individually reviewed mortgage loans. The remaining conventional mortgage loans were evaluated for credit losses on a pool basis. Based upon the current and past performance of these loans, current economic conditions, reasonable and supportable forecasts of expected economic conditions and expected recoveries from credit enhancements, the Bank's best estimate of the expected credit losses in its conventional mortgage loan portfolio at September 30, 2021 was \$3,303,000.

The following table presents the activity in the allowance for credit losses on conventional mortgage loans held for portfolio during the three and nine months ended September 30, 2021 and 2020 (in thousands):

	Three Months Ended September 30,				Nine Months Ended September 30,			
		2021		2020		2021		2020
Balance, beginning of period	\$	3,487	\$	4,892	\$	3,925	\$	1,149
Adjustment to initially apply new credit loss accounting guidance								2,191
Provision (reversal) for credit losses		(184)		863		(622)		2,415
Balance, end of period	\$	3,303	\$	5,755	\$	3,303	\$	5,755

#### Note 10—Consolidated Obligations

Consolidated obligations are the joint and several obligations of the FHLBanks and consist of consolidated obligation bonds and discount notes. Consolidated obligations are backed only by the financial resources of the 11 FHLBanks. Consolidated obligations are not obligations of, nor are they guaranteed by, the U.S. government. The FHLBanks issue consolidated obligations through the Office of Finance as their agent. In connection with each debt issuance, one or more of the FHLBanks specifies the amount of debt it wants issued on its behalf; the Bank receives the proceeds of only the debt issued on its behalf and records on its statements of condition only that portion of the consolidated obligations for which it has received the proceeds. Consolidated obligation bonds are issued primarily to raise intermediate- and long-term funds for the FHLBanks and are not subject to any statutory or regulatory limits on maturity. Consolidated obligation discount notes are issued to raise short-term funds and have maturities of one year or less. These notes are issued at a price that is less than their face amount and are redeemed at par value when they mature. For additional information regarding the FHLBanks' joint and several liability on consolidated obligations, see Note 17.

The par amounts of the 11 FHLBanks' outstanding consolidated obligations, including consolidated obligations held as investments by other FHLBanks, were approximately \$641 billion and \$747 billion at September 30, 2021 and December 31, 2020, respectively. The Bank was the primary obligor on \$54.4 billion and \$59.2 billion (at par value), respectively, of these consolidated obligations.

**Interest Rate Payment Terms.** The following table summarizes the Bank's consolidated obligation bonds outstanding by interest rate payment terms at September 30, 2021 and December 31, 2020 (in thousands, at par value).

	Sep	tember 30, 2021	December 31, 2020		
Fixed-rate	\$	31,985,145	\$	11,492,355	
Variable-rate					
SOFR-indexed		13,236,625		24,419,625	
LIBOR-indexed				1,000,000	
Step-up		4,049,000		75,000	
Total par value	\$	49,270,770	\$	36,986,980	

At September 30, 2021 and December 31, 2020, 64 percent and 40 percent, respectively, of the Bank's fixed-rate consolidated obligation bonds (including step-up bonds) were swapped to a variable rate.

**Redemption Terms.** The following is a summary of the Bank's consolidated obligation bonds outstanding at September 30, 2021 and December 31, 2020, by contractual maturity (dollars in thousands):

	Septembe	er 30, 2021	Decembe	er 31, 2020
Contractual Maturity	Amount	Weighted Average Interest Rate	Amount	Weighted Average Interest Rate
Due in one year or less	\$ 21,880,135	0.27 %	\$ 21,392,110	0.37 %
Due after one year through two years	5,338,575	0.76	12,236,725	0.46
Due after two years through three years	4,372,865	0.68	1,419,695	2.25
Due after three years through four years	2,934,915	0.79	799,975	1.99
Due after four years through five years	8,464,525	0.78	513,475	1.44
Due after five years	6,279,755	1.22	625,000	1.74
Total par value	49,270,770	0.60 %	36,986,980	0.55 %
Premiums	13,999		620	
Discounts	(464)		(366)	
Debt issuance costs	(2,030)		(2,882)	
Hedging adjustments	(88,826)		128,369	
Total	\$ 49,193,449		\$ 37,112,721	

At September 30, 2021 and December 31, 2020, the Bank's consolidated obligation bonds outstanding included the following (in thousands, at par value):

	Sept	ember 30, 2021	Dec	ember 31, 2020
Non-callable bonds	\$	27,868,975	\$	34,861,980
Callable bonds		21,401,795		2,125,000
Total par value	\$	49,270,770	\$	36,986,980

The following table summarizes the Bank's consolidated obligation bonds outstanding at September 30, 2021 and December 31, 2020, by the earlier of contractual maturity or next possible call date (in thousands, at par value):

Contractual Maturity or Next Call Date	September 30, 2021			cember 31, 2020
Due in one year or less	\$	41,899,930	\$	23,302,110
Due after one year through two years		6,470,575		11,751,725
Due after two years through three years		606,570		1,374,695
Due after three years through four years		222,415		459,975
Due after four years through five years		57,525		98,475
Due after five years		13,755		_
Total par value	\$	49,270,770	\$	36,986,980

**Discount Notes.** At September 30, 2021 and December 31, 2020, the Bank's consolidated obligation discount notes, all of which are due within one year, were as follows (dollars in thousands):

	Book Value	 Par Value	Weighted Average Implied Interest Rate
September 30, 2021	\$ 5,155,955	\$ 5,156,225	0.03 %
December 31, 2020	\$ 22,171,296	\$ 22,175,690	0.09 %

#### Note 11—Affordable Housing Program ("AHP")

The following table summarizes the changes in the Bank's AHP liability during the nine months ended September 30, 2021 and 2020 (in thousands):

	Nine	Nine Months Ended September 3					
		2021	2020				
Balance, beginning of period	\$	63,153	\$	57,247			
AHP assessment		13,020		18,480			
Grants funded, net of recaptured amounts		(18,831)		(13,950)			
Balance, end of period	\$	57,342	\$	61,777			

#### Note 12—Assets and Liabilities Subject to Offsetting

The Bank enters into derivatives and securities purchased under agreements to resell that are subject to enforceable master netting agreements or similar arrangements. For purposes of reporting derivative assets and derivative liabilities, the Bank offsets the fair value amounts recognized for derivative instruments (including the right to reclaim cash collateral and the obligation to return cash collateral) where a legally enforceable right of setoff exists. The Bank did not have any liabilities that were eligible to offset its securities purchased under agreements to resell (i.e., securities sold under agreements to repurchase) as of September 30, 2021 or December 31, 2020.

The Bank's derivative transactions are executed either bilaterally or, if required, cleared through a third-party central clearinghouse. The Bank has entered into master agreements with each of its bilateral derivative counterparties that provide for the netting of all transactions with each of these counterparties. Under its master agreements with its non-member bilateral derivative counterparties, collateral is delivered (or returned) daily when certain thresholds (ranging from \$50,000 to \$500,000) are met. The Bank offsets the fair value amounts recognized for bilaterally traded derivatives executed with the same counterparty, including any cash collateral remitted to or received from the counterparty. When entering into derivative transactions with its members, the Bank requires the member to post eligible collateral in an amount equal to the sum of the net market value of the member's derivative transactions with the Bank (if the value is positive to the Bank) plus a percentage of the notional amount of any interest rate swaps, with market values determined on at least a monthly basis. Eligible collateral for derivative transactions with members consists of collateral that is eligible to secure advances and other obligations under the member's Advances and Security Agreement with the Bank. The Bank is not required to pledge collateral to its members to secure derivative positions.

For cleared derivatives, all transactions with each clearing member of each clearinghouse are netted pursuant to legally enforceable setoff rights. Cleared derivatives are subject to initial and variation margin requirements established by the clearinghouse and its clearing members. Unlike bilateral derivatives, variation margin payments on cleared derivatives are

legally characterized as settlements on the contracts. Initial and variation margin is typically delivered/paid (or returned/ received) daily and is not subject to any maximum unsecured thresholds. The Bank offsets the fair value amounts recognized for cleared derivatives transacted with each clearing member of each clearinghouse (which fair value amounts include variation margin paid or received) and any cash collateral pledged or received.

The following table presents derivative instruments and securities purchased under agreements to resell with the legal right of offset, including the related collateral received from or pledged to counterparties as of September 30, 2021 and December 31, 2020 (in thousands). For daily settled derivative contracts, the variation margin payments/receipts are included in the gross amounts of derivative assets and liabilities.

	of	oss Amounts Recognized Financial nstruments	(	ross Amounts Offset in the Statement of Condition	P th	Net Amounts Presented in the Statement of Condition		Collateral Not Offset in the Statement of Condition <sup>(1)</sup>	Ne	et Unsecured Amount
September 30, 2021										
Assets										
Derivatives										
Bilateral derivatives	\$	34,017	\$	(25,137)	\$	8,880	\$	(4,716) <sup>(2)</sup>	\$	4,164
Cleared derivatives		4,400		(4,395)		5				5
Total derivatives		38,417		(29,532)		8,885		(4,716)		4,169
Securities purchased under agreements to resell		10,750,000				10,750,000		(10,750,000)		_
Total assets	\$	10,788,417	\$	(29,532)	\$	10,758,885	\$	(10,754,716)	\$	4,169
Liabilities										
Derivatives										
Bilateral derivatives	\$	406,501	\$	(385,348)	\$	21,153	\$		\$	21,153
Cleared derivatives		15,853		(4,398)		11,455		(11,455) (3)		_
Total liabilities	\$	422,354	\$	(389,746)	\$	32,608	\$	(11,455)	\$	21,153
December 31, 2020										
Assets										
Derivatives										
Bilateral derivatives	\$	31,103	\$	(23,128)	\$	7,975	\$	(7,550) <sup>(2)</sup>	\$	425
Cleared derivatives		6,866		(6,866)		_		_		
Total derivatives		37,969		(29,994)		7,975		(7,550)		425
Securities purchased under agreements to resell		1,000,000		_		1,000,000		(1,000,000)		_
Total assets	\$	1,037,969	\$	(29,994)	\$	1,007,975	\$	(1,007,550)	\$	425
Liabilities										
Derivatives										
Bilateral derivatives	\$	490,387	\$	(478,935)	\$	11,452	\$	—	\$	11,452
Cleared derivatives		20,472		(6,875)		13,597		(13,597) (3)		_
Total liabilities	\$	510,859	\$	(485,810)	\$	25,049	\$	(13,597)	\$	11,452

<sup>&</sup>lt;sup>(1)</sup> Any overcollateralization or any excess variation margin associated with daily settled contracts at an individual clearinghouse/clearing member or bilateral counterparty level is not included in the determination of the net unsecured amount.

<sup>(2)</sup> Consists of collateral pledged by member counterparties.

<sup>(3)</sup> Consists of securities pledged by the Bank. In addition to the amount needed to secure the counterparties' exposure to the Bank, the Bank had pledged securities with aggregate fair values of \$568,018,000 and \$723,903,000 at September 30, 2021 and December 31, 2020, respectively, to further secure its cleared derivatives, which is a result of the initial margin requirements imposed upon the Bank.

#### Note 13—Derivatives and Hedging Activities

**Hedging Activities.** As a financial intermediary, the Bank is exposed to interest rate risk. This risk arises from a variety of financial instruments that the Bank enters into on a regular basis in the normal course of its business. The Bank enters into interest rate swap, swaption and cap agreements (collectively, interest rate exchange agreements) to manage its exposure to changes in interest rates. The Bank may use these instruments to adjust the effective maturity, repricing frequency, or option characteristics of financial instruments to achieve risk management objectives. In addition, the Bank may use these instruments to hedge the variable cash flows associated with forecasted transactions. The Bank has not entered into any credit default swaps or foreign exchange-related derivatives.

The Bank uses interest rate exchange agreements in three ways: (1) by designating the agreement as a fair value hedge of a specific financial instrument or firm commitment; (2) by designating the agreement as a cash flow hedge of a forecasted transaction; or (3) by designating the agreement as a hedge of some other defined risk (referred to as an "economic hedge"). For example, the Bank uses interest rate exchange agreements in its overall interest rate risk management activities to adjust the interest rate sensitivity of consolidated obligations to approximate more closely the interest rate sensitivity of its assets (both advances and investments), and/or to adjust the interest rate sensitivity of advances or investments to approximate more closely the interest rate sensitivity of its liabilities. In addition to using interest rate exchange agreements to manage mismatches between the coupon features of its assets and liabilities, the Bank also uses interest rate exchange agreements to, among other things, manage embedded options in assets and liabilities, to preserve the market value of existing assets and liabilities, to hedge the duration risk of prepayable instruments, to hedge the variable cash flows associated with forecasted transactions, to offset interest rate exchange agreements entered into with members (the Bank serves as an intermediary in these transactions), and to reduce funding costs.

The Bank, consistent with Finance Agency regulations, enters into interest rate exchange agreements only to reduce potential market risk exposures inherent in otherwise unhedged assets and liabilities or anticipated transactions, or to act as an intermediary between its members and the Bank's non-member derivative counterparties. The Bank is not a derivatives dealer and it does not trade derivatives for short-term profit.

At inception, the Bank formally documents the relationships between derivatives designated as hedging instruments and their hedged items, its risk management objectives and strategies for undertaking the hedge transactions, and its method for assessing the effectiveness of the hedging relationships. For fair value hedges, this process includes linking the derivatives to: (1) specific assets and liabilities on the statements of condition or (2) firm commitments. For cash flow hedges, this process includes linking the derivatives to forecasted transactions. The Bank also formally assesses (both at the inception of the hedging relationship and on a monthly basis thereafter) whether the derivatives that are used in hedging transactions have been highly effective in offsetting changes in the fair value of hedged items or the cash flows associated with forecasted transactions and whether those derivatives may be expected to remain highly effective in future periods. The Bank uses regression analyses to assess the effectiveness of its hedges.

Investment Securities and Mortgage Loans Held for Portfolio — The Bank has invested in agency and non-agency MBS and residential mortgage loans. The interest rate and prepayment risk associated with these investments is managed through consolidated obligations and/or derivatives. The Bank may manage prepayment and duration risk presented by some of these investments with either callable and/or non-callable consolidated obligations and/or interest rate exchange agreements, including interest rate swaps, swaptions and caps.

A substantial portion of the Bank's held-to-maturity securities are variable-rate MBS that include caps that would limit the variable-rate coupons if short-term interest rates rise dramatically. To hedge a portion of the potential cap risk embedded in these securities, the Bank entered into interest rate cap agreements, the last of which matured during the three months ended September 30, 2021. These derivatives were treated as economic hedges.

All of the Bank's available-for-sale securities are fixed-rate agency and other highly rated debentures and agency CMBS. To hedge the interest rate risk associated with these fixed-rate investment securities, the Bank has entered into fixed-for-floating interest rate exchange agreements, which are designated as fair value hedges.

The Bank's trading securities include fixed-rate U.S. Treasury Notes. To convert its fixed-rate U.S. Treasury Notes to a short-term floating rate, the Bank has, at times, entered into fixed-for-floating interest rate exchange agreements that were primarily indexed to the overnight index swap ("OIS") rate. These derivatives were treated as economic hedges.

The interest rate swaps and swaptions that are used by the Bank to hedge the risks associated with its mortgage loan portfolio are treated as economic hedges.

Advances — The Bank issues both fixed-rate and variable-rate advances. When deemed appropriate, the Bank uses interest rate exchange agreements to adjust the interest rate sensitivity of its fixed-rate advances to approximate more closely the

interest rate sensitivity of its liabilities. With issuances of putable advances, the Bank purchases from the member a put option that enables the Bank to terminate a fixed-rate advance on specified future dates. This embedded option is clearly and closely related to the host advance contract. The Bank typically hedges a putable advance by entering into a cancelable interest rate exchange agreement where the Bank pays a fixed-rate coupon and receives a variable-rate coupon, and sells an option to cancel the swap to the swap counterparty. This type of hedge is treated as a fair value hedge. The swap counterparty can cancel the interest rate exchange agreement on the call date and the Bank can cancel the putable advance and offer, subject to certain conditions, replacement funding at prevailing market rates.

From time to time, a small portion of the Bank's variable-rate advances may be subject to interest rate caps that would limit the variable-rate coupons if short-term interest rates rise above a predetermined level. To hedge the cap risk embedded in these advances, the Bank will generally enter into interest rate cap agreements. This type of hedge is treated as a fair value hedge.

The Bank may hedge a firm commitment for a forward-starting advance through the use of an interest rate swap. In this case, the swap will function as the hedging instrument for both the firm commitment and the subsequent advance. The carrying value of the firm commitment will be included in the basis of the advance at the time the commitment is terminated and the advance is issued. The basis adjustment will then be amortized into interest income over the life of the advance.

*Consolidated Obligations* — While consolidated obligations are the joint and several obligations of the FHLBanks, each FHLBank is the primary obligor for the consolidated obligations it has issued or assumed from another FHLBank. The Bank generally enters into derivative contracts to hedge the interest rate risk associated with its specific debt issuances.

To manage the interest rate risk of certain of its consolidated obligations, the Bank will match the cash outflow on a consolidated obligation with the cash inflow of an interest rate exchange agreement. With issuances of fixed-rate consolidated obligation bonds, the Bank typically enters into a matching interest rate exchange agreement in which the counterparty pays fixed cash flows to the Bank that are designed to mirror in timing and amount the cash outflows the Bank pays on the consolidated obligation. In this transaction, the Bank pays a variable cash flow that closely matches the interest payments it receives on short-term or variable-rate assets. These transactions are treated as fair value hedges. On occasion, the Bank may enter into fixed-for-floating interest rate exchange agreements to hedge the interest rate risk associated with certain of its consolidated obligation discount notes. The derivatives associated with the Bank's fair value discount note hedging are indexed to the OIS rate and are treated as economic hedges.

The Bank has not issued consolidated obligations denominated in currencies other than U.S. dollars.

*Forecasted Issuances of Consolidated Obligations* — The Bank uses derivatives to hedge the variability of cash flows over a specified period of time as a result of the forecasted issuances and maturities of short-term, fixed-rate instruments, such as three-month consolidated obligation discount notes. Although each short-term consolidated obligation discount note has a fixed rate of interest, a portfolio of rolling consolidated obligation discount notes effectively has a variable interest rate. The variable cash flows associated with these liabilities are converted to fixed-rate cash flows by entering into receive-variable, pay-fixed interest rate swaps. The maturity dates of the cash flow streams are closely matched to the interest rate reset dates of the derivatives. These derivatives are treated as cash flow hedges.

*Intermediation* — The Bank offers interest rate swaps, caps and floors to its members to assist them in meeting their hedging needs. In these transactions, the Bank acts as an intermediary for its members by entering into an interest rate exchange agreement with a member and then entering into an offsetting interest rate exchange agreement with one of the Bank's approved derivative counterparties. All interest rate exchange agreements related to the Bank's intermediary activities with its members are accounted for as economic hedges.

*Other* — From time to time, the Bank may enter into derivatives to hedge risks to its earnings that are not directly linked to specific assets, liabilities or forecasted transactions. These derivatives are treated as economic hedges.

Accounting for Derivatives and Hedging Activities. All derivatives are recognized on the statements of condition at their fair values, including accrued interest receivable and payable. For purposes of reporting derivative assets and derivative liabilities, the Bank offsets the fair value amounts recognized for derivative instruments (including the right to reclaim cash collateral and the obligation to return cash collateral) where a legally enforceable right of setoff exists.

Changes in the fair value of a derivative that is effective as — and that is designated and qualifies as — a fair value hedge, along with changes in the fair value of the hedged asset or liability that are attributable to the hedged risk (including changes that reflect gains or losses on firm commitments), are recorded in current period earnings. The application of hedge accounting generally requires the Bank to evaluate the effectiveness of the fair value hedging relationships on an ongoing basis and to calculate the changes in fair value of the derivatives and related hedged items independently. This is commonly known as the "long-haul" method of hedge accounting. Transactions that meet more stringent criteria qualify for the "shortcut" method of hedge accounting in which an assumption can be made that the change in fair value of a hedged item exactly offsets the change in value of the related derivative. The Bank considers hedges of committed advances to be eligible for the shortcut method of accounting as long as the settlement of the committed advance occurs within the shortest period possible for that type of

instrument based on market settlement conventions, the fair value of the swap is zero at the inception of the hedging relationship, and the transaction meets all of the other criteria for shortcut accounting specified in U.S. GAAP. The Bank has defined the market settlement convention to be five business days or less for advances.

Fair value hedge ineffectiveness (which represents the amount by which the change in the fair value of the derivative differs from the change in the fair value of the hedged item attributable to the hedged risk) and the net interest income/expense associated with that derivative are recorded in the same line item as the earnings effect of the hedged item (that is, interest income on advances, interest income on available-for-sale securities or interest expense on consolidated obligation bonds, as appropriate).

Changes in the fair value of a derivative that is designated and qualifies as a cash flow hedge are recorded in accumulated other comprehensive income ("AOCI") until earnings are affected by the variability of the cash flows of the hedged transaction, at which time these amounts are reclassified from AOCI to the income statement line where the earnings effect of the hedged item is reported (e.g., interest expense on consolidated obligation discount notes).

An economic hedge is defined as a derivative hedging specific or non-specific assets or liabilities that does not qualify or was not designated for hedge accounting, but is an acceptable hedging strategy under the Bank's Enterprise Market Risk Management Policy. These hedging strategies also comply with Finance Agency regulatory requirements prohibiting speculative derivative transactions. An economic hedge by definition introduces the potential for earnings variability as changes in the fair value of a derivative designated as an economic hedge are recorded in current period earnings with no offsetting fair value adjustment to an asset or liability. Both the net interest income/expense and the fair value changes associated with derivatives in economic hedging relationships are recorded in other income (loss) as "net gains (losses) on derivatives and hedging activities."

The Bank records the changes in fair value of all derivatives (and, in the case of fair value hedges, the hedged items) beginning on the trade date.

Cash flows associated with all derivatives are reported as cash flows from operating activities in the statements of cash flows, unless the derivative contains an other-than-insignificant financing element, in which case its cash flows are reported as cash flows from financing activities.

The Bank may issue debt, make advances, or purchase financial instruments in which a derivative instrument is "embedded" and the financial instrument that embodies the embedded derivative instrument is not remeasured at fair value with changes in fair value reported in earnings as they occur. Upon execution of these transactions, the Bank assesses whether the economic characteristics of the embedded derivative are clearly and closely related to the economic characteristics of the remaining component of the financial instrument (i.e., the host contract) and whether a separate, non-embedded instrument with the same terms as the embedded instrument would meet the definition of a derivative instrument. When it is determined that (1) the embedded derivative possesses economic characteristics that are not clearly and closely related to the economic characteristics of the host contract and (2) a separate, stand-alone instrument with the same terms would qualify as a derivative instrument, the embedded derivative is separated from the host contract, carried at fair value, and designated as either (1) a hedging instrument in a fair value hedge or (2) a stand-alone derivative instrument pursuant to an economic hedge. However, if the entire contract were to be measured at fair value, with changes in fair value reported in current earnings, or if the Bank could not reliably identify and measure the embedded derivative for purposes of separating that derivative from its host contract, the entire contract would be carried on the statement of condition at fair value and no portion of the contract would be separately accounted for as a derivative.

The Bank discontinues hedge accounting prospectively when: (1) management determines that the derivative is no longer highly effective in offsetting changes in the fair value or cash flows of a hedged item; (2) the derivative and/or the hedged item expires or is sold, terminated, or exercised; (3) it is no longer probable that a forecasted transaction will occur within the originally specified time frame; (4) a hedged firm commitment no longer meets the definition of a firm commitment; or (5) management determines that designating the derivative as a hedging instrument is no longer appropriate.

In all cases in which hedge accounting is discontinued and the derivative remains outstanding, the Bank will carry the derivative at its fair value on the statement of condition, recognizing any additional changes in the fair value of the derivative in current period earnings as a component of "net gains (losses) on derivatives and hedging activities."

When fair value hedge accounting for a specific derivative is discontinued due to the Bank's determination that such derivative no longer qualifies for hedge accounting treatment or because the derivative is terminated, the Bank will cease to adjust the hedged asset or liability for changes in fair value and amortize the cumulative basis adjustment on the formerly hedged item into earnings over its remaining term using the level-yield method. The amortization is recorded in the same line item as the earnings effect of the formerly hedged item.

When hedge accounting is discontinued because the hedged item no longer meets the definition of a firm commitment, the Bank continues to carry the derivative on the statement of condition at its fair value, removing from the statement of condition

any asset or liability that was recorded to recognize the firm commitment and recording it as a gain or loss in current period earnings.

When cash flow hedge accounting for a specific derivative is discontinued due to the Bank's determination that such derivative no longer qualifies for hedge accounting treatment or because the derivative is terminated, the Bank will reclassify the cumulative fair value gains or losses recorded in AOCI as of the discontinuance date from AOCI into earnings when earnings are affected by the original forecasted transaction. If the Bank expects at any time that continued reporting of a net loss in AOCI would lead to recognizing a net loss on the combination of the hedging instrument and hedged transaction in one or more future periods, the amount that is not expected to be recovered is immediately reclassified to earnings. These items are recorded in the same income statement line where the earnings effect of the hedged item is reported.

In cases where the cash flow hedge is discontinued because the forecasted transaction is no longer probable (i.e., the forecasted transaction will not occur in the originally expected period or within an additional two-month period of time thereafter), any fair value gains or losses recorded in AOCI as of the determination date are immediately reclassified to earnings as a component of "net gains (losses) on derivatives and hedging activities."

**Impact of Derivatives and Hedging Activities.** The following table summarizes the notional balances and estimated fair values of the Bank's outstanding derivatives (inclusive of variation margin on daily settled contracts) and the amounts offset against those values in the statement of condition at September 30, 2021 and December 31, 2020 (in thousands).

	Se	eptember 30, 202	21	D	December 31, 2020						
	Notional	Estimated	Fair Value	Notional	Estimated	Fair Value					
	Amount of Derivatives	Derivative Assets	Derivative Liabilities	Amount of Derivatives	Derivative Assets	Derivative Liabilities					
Derivatives designated as hedging instruments											
Interest rate swaps											
Advances <sup>(1)</sup>	\$ 10,349,487	\$ 4	\$ 265,156	\$ 13,040,960	\$ 80	\$ 460,394					
Available-for-sale securities <sup>(1)</sup>	14,970,962	2,834	24,245	15,190,599	4,536	36,737					
Consolidated obligation bonds (1)	23,014,290	22,356	125,798	4,642,925	17,405	1,534					
Consolidated obligation discount notes (2)	1,066,000		844	1,066,000		1,057					
Total derivatives designated as hedging instruments	49,400,739	25,194	416,043	33,940,484	22,021	499,722					
Derivatives not designated as hedging instruments											
Interest rate swaps											
Advances	255,000	_	3,359	380,000	1	7,580					
Available-for-sale securities	3,094	—	3	3,126	_	3					
Mortgage loans held for portfolio	265,000	118	448	318,350	174	240					
Trading securities	—	_	_	1,150,000	5	17					
Intermediary transactions	91,846	4,716	1,549	126,362	7,410	2,799					
Other	1,425,000	748	549	1,425,000	841	497					
Interest rate swaptions related to mortgage loans held for portfolio	600,000	7,639	_	1,280,000	7,376	_					
Mortgage delivery commitments	68,522	_	401	21,569	140	_					
Interest rate caps											
Held-to-maturity securities	—	_	_	250,000	_	_					
Intermediary transactions	80,000	2	2	80,000	1	1					
Total derivatives not designated as hedging instruments	2,788,462	13,223	6,311	5,034,407	15,948	11,137					
Total derivatives before collateral and netting adjustments	\$ 52,189,201	38,417	422,354	\$ 38,974,891	37,969	510,859					
Cash collateral and related accrued interest		(4,627)	(364,838)		(9,798)	(465,606					
Cash remitted in excess of variation margin requirements		3	_		8	_					
Netting adjustments		(24,908)	(24,908)		(20,204)	(20,204					
Total collateral and netting adjustments <sup>(3)</sup>		(29,532)	(389,746)		(29,994)	(485,810					
Net derivative balances reported in statements of condition		\$ 8,885	\$ 32,608		\$ 7,975	\$ 25,049					

<sup>(1)</sup> Derivatives designated as fair value hedges.

<sup>(2)</sup> Derivatives designated as cash flow hedges.

(3) Amounts represent the effect of legally enforceable master netting agreements or other legally enforceable arrangements between the Bank and its derivative counterparties that allow the Bank to offset positive and negative positions as well as any cash collateral held or placed with those same counterparties. The following table presents the components of net gains (losses) on qualifying fair value and cash flow hedging relationships for the three and nine months ended September 30, 2021 and 2020 (in thousands). Gains and losses on derivatives in fair value hedging relationships include the change in fair value of the derivatives and the net interest income/expense associated with those derivatives.

	Advances		Available- for-Sale Securities	Consolidated Obligation Bonds	Consolidated Obligation Discount Notes			Other omprehensive ncome (Loss)
Three Months Ended September 30, 2021	_							
Total amount of the financial statement line item	\$	29,124	\$ 32,843	\$ (12,922)	\$	(6,412)	\$	(28,032)
Gains (losses) on fair value hedging relationships included in the financial statement line item								
Interest rate contracts								
Derivatives	\$	32,580	\$ 36,061	\$ 11,275	\$	_	\$	_
Hedged items		(57,831)	 (111,750)	 49,618				
Net gains (losses) on fair value hedging relationships	\$	(25,251)	\$ (75,689)	\$ 60,893	\$		\$	
Gains (losses) on cash flow hedging relationships included in the financial statement line item								
Interest rate contracts								
Reclassified from AOCI into interest expense	\$		\$ _	\$ —	\$	(5,658)	\$	5,658
Recognized in OCI			 	 _				4,004
Net gains (losses) on cash flow hedging relationships	\$		\$ 	\$ 	\$	(5,658)	\$	9,662
Three Months Ended September 30, 2020								
Total amount of the financial statement line item	\$	49,059	\$ 39,680	\$ (32,403)	\$	(18,216)	\$	141,336
Gains (losses) on fair value hedging relationships included in the financial statement line item								
Interest rate contracts								
Derivatives	\$	55,646	\$ 11,881	\$ 214	\$	_	\$	_
Hedged items		(81,769)	 (82,916)	 34,400				—
Net gains (losses) on fair value hedging relationships	\$	(26,123)	\$ (71,035)	\$ 34,614	\$		\$	
Gains (losses) on cash flow hedging relationships included in the financial statement line item								
Interest rate contracts								
Reclassified from AOCI into interest expense	\$	_	\$ _	\$ _	\$	(5,095)	\$	5,095
Recognized in OCI			 	 			1	1,559
Net gains (losses) on cash flow hedging relationships	\$		\$ 	\$ 	\$	(5,095)	\$	6,654

Nine Months Ended September 30, 2021		Advances	Available- for-Sale Securities			Consolidated Obligation Bonds	Consolidated Obligation Discount Notes			Other Comprehensive Income (Loss)	
			_								
Total amount of the financial statement line item	\$	90,790	\$	107,895	\$	(54,142)	\$	(22,793)	\$	146,106	
Gains (losses) on fair value hedging relationships included in the financial statement line item											
Interest rate contracts											
Derivatives	\$	180,385	\$	350,817	\$	(71,555)	\$	—	\$	—	
Hedged items		(255,865)		(557,837)		217,196					
Net gains (losses) on fair value hedging relationships	\$	(75,480)	\$	(207,020)	\$	145,641	\$	_	\$	_	
	_		-		_		_		_		
Gains (losses) on cash flow hedging relationships included in the financial statement line item											
Interest rate contracts											
Reclassified from AOCI into interest expense	\$	_	\$		\$	_	\$	(16,677)	\$	16,677	
Recognized in OCI		_		_		_		_		33,914	
Net gains (losses) on cash flow hedging relationships	\$		\$	_	\$	_	\$	(16,677)	\$	50,591	
	-		-		-		-	(10,077)	Ψ	0 0,0 9 1	
Nine Months Ended September 30, 2020											
Total amount of the financial statement line item	\$	310,415	\$	179,475	\$	(250,207)	\$	(187,332)	\$	(129,546)	
Gains (losses) on fair value hedging relationships included in the financial statement line item											
Interest rate contracts											
Derivatives	\$	(613,320)	\$	(1,250,492)	\$	172,237	\$	—	\$	_	
Hedged items		588,258		1,101,481		(88,660)				_	
Net gains (losses) on fair value hedging relationships	\$	(25,062)	\$	(149,011)	\$	83,577	\$	_	\$	_	
	_		-	<u>`</u>							
Gains (losses) on cash flow hedging relationships included in the financial statement line item											
Interest rate contracts											
Reclassified from AOCI into interest expense	\$	_	\$	_	\$	_	\$	(9,273)	\$	9,273	
Recognized in OCI		_		_		_				(105,070)	
Net losses on cash flow hedging relationships	\$		\$		\$		\$	(9,273)	¢	(95,797)	
The rosses on easi now neuging relationships	φ		¢		φ		¢	(9,275)	¢	(95,191)	

For the three and nine months ended September 30, 2021 and 2020, there were no amounts reclassified from AOCI into earnings as a result of the discontinuance of cash flow hedges because the original forecasted transactions occurred by the end of the originally specified time periods or within two-month periods thereafter. At September 30, 2021, \$22,326,000 of deferred net losses on derivative instruments in AOCI are expected to be reclassified to earnings during the next 12 months. At that same date, the maximum length of time over which the Bank is hedging its exposure to the variability in future cash flows for forecasted transactions is 8.3 years.

The following table presents the cumulative basis adjustments on hedged items either designated or previously designated as fair value hedges and the related amortized cost of those items as of September 30, 2021 (in thousands).

Line Item in Statement of Condition of Hedged Item			Basis Adjustments for Active Hedging telationships Included in Amortized Cost	]	Basis Adjustments for Discontinued Hedging Relationships Included in Amortized Cost	Total Fair Value Hedging Basis Adjustments <sup>(2)</sup>
September 30, 2021						
Advances	\$	10,689,382	\$ 307,963	\$	5,235	\$ 313,198
Available-for-sale securities		15,815,385	738,931		(903)	738,028
Consolidated obligation bonds		(23,287,054)	89,611		(785)	88,826
December 31, 2020						
Advances	\$	13,621,492	\$ 567,408	\$	3,846	\$ 571,254
Available-for-sale securities		16,615,401	1,296,845		(980)	1,295,865
Consolidated obligation bonds		(5,244,262)	(127,192)		(1,178)	(128,370)

<sup>(1)</sup> Reflects the amortized cost of hedged items in active or discontinued fair value hedging relationships, which includes fair value hedging basis adjustments.

<sup>(2)</sup> Reflects the cumulative life-to-date unamortized hedging gains (losses) on the hedged items.

The following table presents the components of net gains (losses) on derivatives and hedging activities that are reported in other income (loss) for the three and nine months ended September 30, 2021 and 2020 (in thousands).

	Т	Gain (Loss) l Other Income Three Months En	e (L	Gain (Loss) F Other Income Nine Months End	s) for the			
	2021 2020					2021		2020
Derivatives not designated as hedging instruments								
Interest rate swaps	\$	(1,766)	\$	7,371	\$	(4,368)	\$	9,504
Net interest income (expense) on interest rate swaps		2,061		(4,866)		3,573		(17,551)
Interest rate swaptions		347		(3,978)		3,498		2,578
Mortgage delivery commitments		(204)		1,772		(2,083)		8,066
Total net gains related to derivatives not designated as hedging instruments		438		299		620		2,597
Price alignment amount on variation margin for daily settled derivative contracts <sup>(1)</sup>		_		13		_		35
Net gains on derivatives and hedging activities reported in other income (loss)	\$	438	\$	312	\$	620	\$	2,632

(1) Reflects the price alignment amounts on variation margin for daily settled derivative contracts that are not designated as hedging instruments. The price alignment amounts on variation margin for daily settled derivative contracts that are designated as hedging instruments are recorded in the same line item as the earnings effect of the hedged item.

**Credit Risk Related to Derivatives.** The Bank is subject to credit risk due to the risk of nonperformance by counterparties to its derivative agreements. The Bank manages derivative counterparty credit risk through the use of master netting agreements or other similar collateral exchange arrangements, credit analysis, and adherence to the requirements set forth in the Bank's Enterprise Market Risk Management Policy, Enterprise Credit Risk Management Policy, and Finance Agency regulations. Approximately 43 percent of the Bank's derivative contracts (based on notional value) have been cleared through third-party central clearinghouses (as of September 30, 2021, the notional balance of cleared transactions outstanding totaled \$22.7 billion). With cleared transactions, the Bank is exposed to credit risk in the event that the clearinghouse or the clearing member fails to meet its obligations to the Bank. The remainder of the Bank's derivative contracts have been transacted bilaterally with large financial institutions under master netting agreements or, to a much lesser extent, with member institutions (as of September 30, 2021, the notional bilateral counterparties and member counterparties totaled \$29.3 billion and \$0.2 billion, respectively). Some of these institutions (or their affiliates) buy, sell, and distribute consolidated obligations.

The notional amount of the Bank's interest rate exchange agreements does not reflect its credit risk exposure, which is much less than the notional amount. The Bank's net credit risk exposure is based on the current estimated cost, on a present value basis, of replacing at current market rates all interest rate exchange agreements with individual counterparties, if those counterparties were to default, after taking into account the value of any cash and/or securities collateral held or remitted by the Bank. For counterparties with which the Bank is in a net gain position, the Bank has credit exposure when the collateral it is holding (if any) has a value less than the amount of the gain. For counterparties with which the Bank is in a net gain of the gain. For counterparties with which the Bank is in a net loss position, the Bank has credit exposure when it has delivered collateral with a value greater than the amount of the loss position. The net exposure on derivative agreements is presented in Note 12. Based on the netting provisions and collateral requirements associated with its derivative agreements and the creditworthiness of its derivative counterparties, Bank management does not currently anticipate any credit losses on its derivative agreements.

#### Note 14—Capital

At all times during the nine months ended September 30, 2021, the Bank was in compliance with all applicable statutory and regulatory capital requirements. The following table summarizes the Bank's compliance with those capital requirements as of September 30, 2021 and December 31, 2020 (dollars in thousands):

	 Septemb	oer 30,	2021	 December	31, 2020		
	Required		Actual	Required	Actual		
Regulatory capital requirements:							
Risk-based capital	\$ 721,043	\$	3,676,378	\$ 1,006,191	\$ 3,523,489		
Total capital	\$ 2,408,110	\$	3,676,378	\$ 2,596,501	\$ 3,523,489		
Total capital-to-assets ratio	4.00 %	Ď	6.11 %	4.00 %	5.43 %		
Leverage capital	\$ 3,010,138	\$	5,514,567	\$ 3,245,626	\$ 5,285,234		
Leverage capital-to-assets ratio	5.00 %	Ď	9.16 %	5.00 %	8.14 %		

Beginning in February 2020, the Bank must also maintain a minimum capital stock-to-assets ratio of 2.0 percent, as measured on a daily average basis at each month end. The Bank was in compliance with this requirement at each of the applicable month ends in 2021 and 2020.

Members are required to maintain an investment in Class B Capital Stock equal to the sum of a membership investment requirement and an activity-based investment requirement. The membership investment requirement is currently 0.04 percent of each member's total assets as of December 31, 2020, subject to a minimum of \$1,000 and a maximum of \$7,000,000. Through September 30, 2021, the activity-based investment requirement was 4.1 percent of outstanding advances, except as described below.

On September 21, 2015, the Bank announced a Board-authorized reduction in the activity-based stock investment requirement from 4.1 percent to 2.0 percent for certain advances that were funded during the period from October 21, 2015 through December 31, 2015. To be eligible for the reduced activity-based investment requirement, advances funded during this period had to have a maturity of one year or greater, among other things. The standard activity-based stock investment requirement of 4.1 percent continued to apply to all other advances that were funded during the period from October 21, 2015 through December 31, 2015.

On February 28, 2020, the Bank announced another Board-authorized reduction in the activity-based stock investment requirement from 4.1 percent to 2.0 percent for up to \$5.0 billion of advances that: (1) were funded during the period from April 1, 2020 through December 31, 2020 and (2) had a maturity of one year or greater. On July 1, 2020, the Bank announced a Board-authorized modification to this special advances offering. As modified, the Bank's activity-based capital stock investment requirement was reduced from 4.1 percent to 2.0 percent for advances that: (1) were funded during the period from August 1, 2020 through December 31, 2020 and (2) had a maturity of 28 days or greater. On December 7, 2020, the Bank announced that its Board of Directors had authorized the Bank to extend the expiration date of the special advances offering from December 31, 2020 to June 30, 2021. On March 17, 2021, the Bank announced another Board-authorized modification and extension to this special advances offering. As modified and extended, the Bank's activity-based capital stock investment requirement has been reduced from 4.1 percent to 2.0 percent for advances that: (1) are funded during the period from April 19, 2021 through December 31, 2021 and (2) have a maturity of 32 days or greater. For advances that were funded on or prior to April 18, 2021, the reduced activity-based capital stock investment requirement continued to apply to advances that had a maturity of 28 days or greater. Under the special advances offering described in this paragraph, the maximum balance of advances to which the reduced activity-based stock investment requirement can be applied is \$5.0 billion. Except as described in this paragraph, the standard activity-based stock investment requirement of 4.1 percent continues to apply to all other advances that are funded during the period from April 1, 2020 through December 31, 2021.

On April 19, 2021, the Bank implemented an amendment to its Capital Plan. The amended Capital Plan provides for the imposition of an activity-based investment requirement ranging from 0.10 percent to 2.0 percent of members' outstanding letters of credit (the "LC Percentage"), as specified from time to time by the Bank's Board of Directors. The Board of Directors has established an LC Percentage of 0.10 percent which applies only to letters of credit that are issued or renewed on and after April 19, 2021. The LC Percentage is applied to the issued amount of the letter of credit rather than, if applicable, the amount of the letter of credit that is used from time to time during the term of the letter of credit. Further, renewals for this purpose include amendments that extend the expiration date of the letter of credit.

The Bank generally repurchases surplus stock quarterly. For the repurchases that occurred during the nine months ended September 30, 2021, surplus stock was defined as the amount of stock held by a member shareholder in excess of 125 percent of the shareholder's minimum investment requirement. For those repurchases, which occurred on March 29, 2021, June 25, 2021 and September 27, 2021, a member shareholder's surplus stock was not repurchased if: (1) the amount of that shareholder's surplus stock was \$2,000,000 or less, (2) the shareholder elected to opt-out of the repurchase, or (3) the shareholder was on restricted collateral status (subject to certain exceptions). On March 29, 2021, June 25, 2021 and September 27, 2021, the Bank repurchased surplus stock totaling \$56,889,000, \$35,836,000 and \$12,602,000, respectively, none of which was classified as mandatorily redeemable capital stock at that date. From time to time, the Bank may modify the definition of surplus stock or the timing and/or frequency of surplus stock repurchases.

On March 29, 2021, June 25, 2021 and September 27, 2021, the Bank also repurchased all excess stock held by nonmember shareholders as of that date. This excess stock, all of which was classified as mandatorily redeemable capital stock at that date, totaled \$7,008,000, \$1,000 and \$1,000, respectively.

The Financing Corporation ("FICO") was formed pursuant to the Competitive Equality Banking Act of 1987 to provide financing for the resolution of failed savings and loan associations. The capitalization of FICO was provided by capital distributions from the FHLBanks in exchange for non-voting capital stock of FICO. The Bank's capital distributions were made in 1987, 1988 and 1989. Upon passage of the Financial Institutions Reform, Recovery and Enforcement Act of 1989, the Bank's capital stock investment in FICO was determined to be non-redeemable and, in 1989, the Bank charged off its investment in FICO directly against retained earnings. After satisfying its obligations in September 2019, FICO commenced a process to dissolve in accordance with relevant statutory requirements and the terms of a plan of dissolution approved by the Director of the Finance Agency. During the second quarter of 2020, in connection with the dissolution of FICO, the Bank received a distribution of \$17,639,000, representing the Bank's proportionate share of FICO's surplus and remaining cash on hand. The receipt of this distribution was treated as a partial return of the Bank's prior investment in FICO and credited to unrestricted retained earnings.

#### Note 15—Employee Retirement Plans

The Bank sponsors a retirement benefits program that includes health care and limited life insurance benefits for eligible retirees. Components of net periodic benefit cost (credit) related to this program for the three and nine months ended September 30, 2021 and 2020 were as follows (in thousands):

	Tł	ree Mor Septem			nths Ended nber 30,		
	2	2021	2	020	 2021		2020
Service cost	\$	10	\$	9	\$ 30	\$	27
Interest cost		5		5	15		15
Amortization of prior service cost		5		5	15		15
Amortization of net actuarial gain		(16)		(20)	(50)		(60)
Net periodic benefit cost (credit)	\$	4	\$	(1)	\$ 10	\$	(3)

The Bank reports the service cost component of its net periodic postretirement benefit cost (credit) in compensation and benefits expense and the other components of net periodic postretirement benefit cost (credit) in "other, net" in the other income (loss) section of the statement of income.

#### Note 16—Estimated Fair Values

Fair value is defined under U.S. GAAP 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. A fair value measurement assumes that the transaction to sell the asset or transfer the liability occurs in the principal market for the asset or liability or, in the absence of a principal market, the most advantageous market for the asset or liability. U.S. GAAP establishes a fair value hierarchy and requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. U.S. GAAP also requires an entity to disclose the level within the fair value hierarchy in which each measurement is classified. The fair value hierarchy prioritizes the inputs used to measure fair value into three broad levels:

Level 1 Inputs — Quoted prices (unadjusted) in active markets for identical assets or liabilities that the reporting entity can access at the measurement date.

Level 2 Inputs — Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly. If the asset or liability has a specified (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 or in which little information is released publicly; (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 (e.g., implied spreads).

Level 3 Inputs — Unobservable inputs for the asset or liability that are supported by little or no market activity. None of the Bank's assets or liabilities that are recorded at fair value on a recurring basis were measured using significant Level 3 inputs.

For financial instruments carried at fair value, the Bank reviews the 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. For the nine months ended September 30, 2021 and 2020, the Bank did not reclassify any fair value measurements.

The following estimated fair value amounts have been determined by the Bank using available market information and management's best judgment of appropriate valuation methods. These estimates are based on pertinent information available to the Bank as of September 30, 2021 and December 31, 2020. Although management uses its best judgment in estimating the fair value of these financial instruments, there are inherent limitations in any estimation technique or valuation methodology. For example, because an active secondary market does not exist for many of the Bank's financial instruments (e.g., advances, non-agency RMBS and mortgage loans held for portfolio), in certain cases their fair values are not subject to precise quantification or verification. Therefore, the estimated fair values presented below in the Fair Value Summary Tables may not be indicative of the amounts that would have been realized in market transactions at the reporting dates. Further, the fair values do not represent an estimate of the overall market value of the Bank as a going concern, which would take into account future business opportunities.

The valuation techniques used to measure the fair values of the Bank's financial instruments that are measured at fair value on the statement of condition are described below.

*Trading and available-for-sale securities.* To value its U.S. Treasury Notes and U.S. Treasury Bills classified as trading securities and all of its available-for-sale securities, the Bank obtains prices from three designated third-party pricing vendors when available.

The pricing vendors use various proprietary models to price these securities. The inputs to those models are derived from various sources including, but not limited to, benchmark yields, reported trades, dealer estimates, issuer spreads, benchmark securities, bids, offers and other market-related data. Because many securities do not trade on a daily basis, the pricing vendors use available information as applicable such as benchmark curves, benchmarking of like securities, sector groupings and matrix pricing to determine the prices for individual securities. Each pricing vendor has an established challenge process in place for all security valuations, which facilitates resolution of potentially erroneous prices identified by the Bank.

A "median" price is first established for each security using a formula that is based upon the number of prices received. If three prices are received, the middle price is the median price; if two prices are received, the average of the two prices is the median price; and if one price is received, it is the median price (and also the final price) subject to some type of validation similar to the evaluation of outliers described below. All prices that are within a specified tolerance threshold of the median price are included in the "cluster" of prices that are averaged to compute a "default" price. All prices that are outside the threshold ("outliers") are subject to further analysis (including, but not limited to, comparison to prices provided by an additional third-party valuation service, prices for similar securities, and/or non-binding dealer estimates) to determine if an outlier is a better estimate of fair value. If an outlier (or some other price identified in the analysis) is determined to be a better estimate of fair value, then the outlier (or the other price, as appropriate) is used as the final price rather than the default price. If, on the other hand, the analysis confirms that an outlier (or outliers) is (are) in fact not representative of fair value and the

default price is the best estimate, then the default price is used as the final price. In all cases, the final price is used to determine the fair value of the security.

If all prices received for a security are outside the tolerance threshold level of the median price, then there is no default price, and the final price is determined by an evaluation of all outlier prices as described above.

As of September 30, 2021 and December 31, 2020, three vendor prices were received for substantially all of the Bank's trading and available-for-sale securities and the final prices for substantially all of those securities were computed by averaging the three prices. Based on the Bank's understanding of the pricing methods employed by the third-party pricing vendors and the relative lack of dispersion among the vendor prices (or, in those instances in which there were outliers, the Bank's additional analyses), the Bank believes its final prices result in reasonable estimates of the fair values and that the fair value measurements are classified appropriately in the fair value hierarchy.

*Derivative assets/liabilities.* The fair values of the Bank's interest rate swap and swaption agreements are estimated using a pricing model with inputs that are observable in the market (e.g., the relevant interest rate curves (that is, the relevant LIBOR swap curve, the SOFR curve or the OIS curve and, for purposes of discounting, either the OIS curve for bilateral contracts or the SOFR curve for cleared contracts) and, for agreements containing options, swaption volatility). The fair values of the Bank's interest rate caps are also estimated using a pricing model with inputs that are observable in the market (that is, cap volatility, the relevant LIBOR swap curve and, for purposes of discounting, the OIS curve).

As the collateral (or variation margin in the case of daily settled contracts) and netting provisions of the Bank's arrangements with its derivative counterparties significantly reduce the risk from nonperformance (see Note 12), the Bank does not consider its own nonperformance risk or the nonperformance risk associated with each of its counterparties to be a significant factor in the valuation of its derivative assets and liabilities. The Bank compares the fair values obtained from its pricing model to clearinghouse valuations (in the case of cleared derivatives) and non-binding dealer estimates (in the case of bilateral derivatives) and may also compare its fair values to those of similar instruments to ensure that the fair values are reasonable.

The fair values of the Bank's derivative assets and liabilities include accrued interest receivable/payable and cash collateral remitted to/received from counterparties; the estimated fair values of the accrued interest receivable/payable and cash collateral approximate their carrying values due to their short-term nature. The fair values of the Bank's bilateral derivatives are netted by counterparty pursuant to the provisions of the credit support annexes to the Bank's master netting agreements with its non-member bilateral derivative counterparties. The Bank's cleared derivative transactions with each clearing member of each clearinghouse are netted pursuant to the Bank's arrangements with those parties. In each case, if the netted amounts are positive, they are classified as an asset and, if negative, as a liability.

The Bank estimates the fair values of mortgage delivery commitments based upon the prices for to-be-announced ("TBA") securities, which represent quoted market prices for forward-settling agency MBS. The prices are adjusted for differences in coupon, cost to carry, vintage, remittance type and product type between the Bank's mortgage loan commitments and the referenced TBA MBS.

Other assets held at fair value. To value its mutual fund investments included in other assets, the Bank obtains quoted prices for the mutual funds.

The following table presents the carrying values and estimated fair values of the Bank's financial instruments at September 30, 2021 (in thousands), as well as the level within the fair value hierarchy in which the measurements are classified. Financial assets and liabilities are classified in their entirety based on the lowest level input that is significant to the fair value estimate.

#### FAIR VALUE SUMMARY TABLE

		Estimated Fair Value							
Financial Instruments	Carrying Value	Total	Level 1	Level 2	Level 3	Netting Adjustment <sup>(4)</sup>			
Assets:									
Cash and due from banks	\$ 240,691	\$ 240,691	\$ 240,691	\$ —	\$ —	\$			
Interest-bearing deposits	846,269	846,269	—	846,269	—	—			
Securities purchased under agreements to resell	10,750,000	10,750,000	_	10,750,000	—	—			
Federal funds sold	3,124,000	3,124,000	_	3,124,000	—	—			
Trading securities <sup>(1)</sup>	208,024	208,024	_	208,024	_	_			
Available-for-sale securities <sup>(1)</sup>	16,081,806	16,081,806	_	16,081,806	_	—			
Held-to-maturity securities	676,292	689,351	_	647,090	<sup>2)</sup> 42,261 <sup>(3)</sup>	3)			
Advances	24,775,990	24,843,157	_	24,843,157	_	—			
Mortgage loans held for portfolio, net	3,337,821	3,373,308	_	3,373,308	_	_			
Accrued interest receivable	91,290	91,290	_	91,290	_	_			
Derivative assets <sup>(1)</sup>	8,885	8,885	_	38,417	_	(29,532)			
Other assets held at fair value (1)	16,596	16,596	16,596	—	_	—			
Liabilities:									
Deposits	1,785,107	1,785,107	_	1,785,107	_	_			
Consolidated obligations									
Discount notes	5,155,955	5,155,744		5,155,744	_	_			
Bonds	49,193,449	49,235,111	_	49,235,111	_	_			
Mandatorily redeemable capital stock	6,653	6,653	6,653	_	_	_			
Accrued interest payable	58,791	58,791	_	58,791	—	_			
Derivative liabilities <sup>(1)</sup>	32,608	32,608		422,354		(389,746)			

<sup>(1)</sup> Financial instruments measured at fair value on a recurring basis as of September 30, 2021.

<sup>(2)</sup> Consists of the Bank's holdings of U.S. government-guaranteed debentures, state housing agency debentures and GSE RMBS.

<sup>(3)</sup> Consists of the Bank's holdings of non-agency RMBS.

(4) Amounts represent the effect of legally enforceable master netting agreements or other legally enforceable arrangements between the Bank and its derivative counterparties that allow the Bank to offset positive and negative positions (inclusive of variation margin for daily settled contracts) as well as any cash collateral held or placed with those same counterparties. The following table presents the carrying values and estimated fair values of the Bank's financial instruments at December 31, 2020 (in thousands), as well as the level within the fair value hierarchy in which the measurements are classified. Financial assets and liabilities are classified in their entirety based on the lowest level input that is significant to the fair value estimate.

FAIR	VALUE	SUMMARY	TABLE
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		Estimated Fair Value						
Financial Instruments	Carrying Value	Total	Level 1	Level 2	Level 3	Netting Adjustment <sup>(4)</sup>		
Assets:								
Cash and due from banks	\$ 3,178,281	\$ 3,178,281	\$ 3,178,281	\$	\$ —	\$ —		
Interest-bearing deposits	759,240	759,240	—	759,240	_	—		
Securities purchased under agreements to resell	1,000,000	1,000,000	_	1,000,000	_	_		
Federal funds sold	915,000	915,000	_	915,000	_	—		
Trading securities <sup>(1)</sup>	5,301,468	5,301,468	_	5,301,468	_	_		
Available-for-sale securities <sup>(1)</sup>	16,787,762	16,787,762	_	16,787,762	_	—		
Held-to-maturity securities	897,226	908,630	_	857,785	<sup>(2)</sup> 50,845 <sup>(3)</sup>	_		
Advances	32,478,944	32,536,792	_	32,536,792	_	_		
Mortgage loans held for portfolio, net	3,422,686	3,503,137	_	3,503,137	_	—		
Accrued interest receivable	106,322	106,322	—	106,322	_	—		
Derivative assets <sup>(1)</sup>	7,975	7,975	_	37,969	_	(29,994)		
Other assets held at fair value (1)	15,839	15,839	15,839	—	—	_		
Liabilities:								
Deposits	1,583,120	1,583,131	_	1,583,131		_		
Consolidated obligations								
Discount notes	22,171,296	22,170,858	_	22,170,858	_	_		
Bonds	37,112,721	37,197,548	_	37,197,548	_	_		
Mandatorily redeemable capital stock	13,864	13,864	13,864	_		_		
Accrued interest payable	42,039	42,039	—	42,039	—	_		
Derivative liabilities <sup>(1)</sup>	25,049	25,049	_	510,859	_	(485,810)		

<sup>(1)</sup> Financial instruments measured at fair value on a recurring basis as of December 31, 2020.

<sup>(2)</sup> Consists of the Bank's holdings of U.S. government-guaranteed debentures, state housing agency debentures and GSE RMBS.

<sup>(3)</sup> Consists of the Bank's holdings of non-agency RMBS.

(4) Amounts represent the effect of legally enforceable master netting agreements or other legally enforceable arrangements between the Bank and its derivative counterparties that allow the Bank to offset positive and negative positions (inclusive of variation margin for daily settled contracts) as well as any cash collateral held or placed with those same counterparties.

#### Note 17—Commitments and Contingencies

Joint and several liability. The Bank is jointly and severally liable with the other 10 FHLBanks for the payment of principal and interest on all of the consolidated obligations issued by the FHLBanks. At September 30, 2021, the par amount of the other 10 FHLBanks' outstanding consolidated obligations was approximately \$587 billion. The Finance Agency, in its discretion, may require any FHLBank to make principal or interest payments due on any consolidated obligation, regardless of whether there has been a default by a FHLBank having primary liability. To the extent that a FHLBank makes any consolidated obligation payment on behalf of another FHLBank, the paying FHLBank is entitled to reimbursement from the FHLBank with primary liability. However, if the Finance Agency determines that the primary obligor is unable to satisfy its obligations, then the Finance Agency may allocate the outstanding liability among the remaining FHLBanks on a pro rata basis in proportion to each FHLBank's participation in all consolidated obligations outstanding, or on any other basis that the Finance Agency may determine. No FHLBank has ever failed to make any payment on a consolidated obligation for which it was the primary obligor; as a result, the regulatory provisions for directing other FHLBanks to make payments on behalf of another FHLBank or

allocating the liability among other FHLBanks have never been invoked. If the Bank expected that it would be required to pay any amounts on behalf of its co-obligors under its joint and several liability, the Bank would charge to income the amount of the expected payment. Based upon the creditworthiness of the other FHLBanks, the Bank currently believes that the likelihood that it would have to pay any amounts beyond those for which it is primarily liable is remote.

**Other commitments and contingencies.** At September 30, 2021 and December 31, 2020, the Bank had commitments to make additional advances totaling approximately \$6,570,000 and \$7,161,000, respectively. In addition, outstanding standby letters of credit totaled \$21,060,892,000 and \$22,402,688,000 at September 30, 2021 and December 31, 2020, respectively. Based on management's credit analyses and collateral requirements, the Bank does not deem it necessary to have any provision for credit losses on these letters of credit (see Note 9).

The Bank has entered into standby bond purchase agreements with a state housing finance agency within its district whereby, for a fee, the Bank agrees to serve as a standby liquidity provider. If required, the Bank will purchase and hold the housing finance agency's bonds until the designated marketing agent can find a suitable investor or the housing finance agency repurchases the bonds according to a schedule established by the agreement. Each standby bond purchase agreement includes the provisions under which the Bank would be required to purchase the bonds. At September 30, 2021 and December 31, 2020, the Bank had outstanding standby bond purchase agreements totaling \$939,902,000 and \$709,300,000, respectively. At September 30, 2021, standby bond purchase agreements totaling \$170,322,000, \$221,223,000, \$48,306,000, \$246,558,000, and \$253,493,000 expire in 2022, 2023, 2024, 2025 and 2026, respectively. The Bank was not required to purchase any bonds under these agreements during the nine months ended September 30, 2021 or the year ended December 31, 2020.

At September 30, 2021 and December 31, 2020, the Bank had commitments to purchase conventional mortgage loans totaling \$68,522,000 and \$21,569,000, respectively, from certain of its members that participate in the MPF program.

At September 30, 2021, the Bank had commitments to issue \$1,165,000,000 (par value) of consolidated obligation bonds, of which \$165,000,000 were hedged with interest rate swaps. The Bank did not have any commitments to issue consolidated obligation bonds at December 31, 2020. In addition, at September 30, 2021 and December 31, 2020, the Bank had commitments to issue \$55,000,000 and \$521,760,000 (par value), respectively, of consolidated obligation discount notes, none of which were hedged.

The Bank has transacted interest rate exchange agreements with large financial institutions and third-party clearinghouses that are subject to collateral exchange arrangements. As of September 30, 2021 and December 31, 2020, the Bank had pledged cash collateral of \$367,884,000 and \$466,068,000, respectively, to those parties that had credit risk exposure to the Bank related to interest rate exchange agreements. The pledged cash collateral (i.e., interest-bearing deposit asset) is netted against derivative assets and liabilities in the statements of condition. In addition, as of September 30, 2021 and December 31, 2020, the Bank had pledged securities with carrying values (and fair values) of \$579,473,000 and \$737,500,000, respectively, to parties that had credit risk exposure to the Bank related to interest rate exchange agreements. The pledged securities may be rehypothecated and are not netted against derivative assets and liabilities in the statements of condition in the statements of condition.

In the ordinary course of its business, the Bank is subject to the risk that litigation may arise. Currently, the Bank is not a party to any material pending legal proceedings.

#### Note 18— Transactions with Shareholders

An affiliate of one of the Bank's derivative counterparties (Wells Fargo) acquired a member institution on October 1, 2006. Since the acquisition was completed, the Bank has continued to enter into interest rate exchange agreements with Wells Fargo in the normal course of business and under the same terms and conditions as before. In addition, the Bank maintains interest-bearing deposits with an affiliate of Wells Fargo.

#### Note 19 — Transactions with Other FHLBanks

Occasionally, the Bank loans (or borrows) short-term federal funds to (or from) other FHLBanks. The Bank did not loan any short-term federal funds to other FHLBanks during the nine months ended September 30, 2021 or 2020.

During the nine months ended September 30, 2021 and 2020, interest expense on borrowings from other FHLBanks totaled \$58 and \$481, respectively. The following table summarizes the Bank's borrowings from other FHLBanks during the nine months ended September 30, 2021 and 2020 (in thousands).

	Nine	Nine Months Ended September 30,				
		2021	2020			
Balance at January 1,	\$	— \$				
Borrowings from FHLBank of Indianapolis		30,000	30,000			
Repayments to FHLBank of Indianapolis		(30,000)	(30,000)			
Balance at September 30,	\$	\$				

#### Note 20 — Accumulated Other Comprehensive Income (Loss)

The following table presents the changes in the components of AOCI for the three and nine months ended September 30, 2021 and 2020 (in thousands).

	Gains Avai	Net Unrealized Gains (Losses) on Available-for- Sale     Net Unrealized Gains (Losses) on Cash Flow Hedges     Non-Credit Portion of Other-than-Temporary Impairment Losses on Held-to-Maturity Securities		Postretirement Benefits		Total AOCI		
Three Months Ended September 30, 2021								
Balance at July 1, 2021	\$	304,575	\$	(78,673)	\$ (5,383)	\$ 879	)	\$ 221,398
Reclassifications from AOCI to net income								
Losses on cash flow hedges included in interest expense		_		5,658	_	-	-	5,658
Amortization of prior service costs and net actuarial gains recognized in other income (loss)		_		_	_	(1	.)	(11)
Other amounts of other comprehensive income (loss)								
Net unrealized losses on available-for-sale securities		(38,154)		_	_	_	-	(38,154)
Unrealized gains on cash flow hedges		—		4,004	—	_	-	4,004
Accretion of non-credit portion of other-than- temporary impairment losses to the carrying value of held-to-maturity securities					471		-	471
Total other comprehensive income (loss)		(38,154)		9,662	 471	(1	.)	(28,032)
Balance at September 30, 2021	\$	266,421	\$	(69,011)	\$ (4,912)	\$ 86	3	\$ 193,366
Three Months Ended September 30, 2020 Balance at July 1, 2020	\$	(24,638)	\$	(140,645)	\$ (7,570)	\$ 1,020	)	\$ (171,833)
Reclassifications from AOCI to net income								
Realized gains on sales of available-for-sale securities included in net income		(773)		_	_	-	-	(773)
Losses on cash flow hedges included in interest expense		_		5,095	_	_	-	5,095
Amortization of prior service costs and net actuarial gains recognized in other income (loss)		_		_	_	(1:	5)	(15)
Other amounts of other comprehensive income (loss)								
Net unrealized gains on available-for-sale securities		134,871		_	_	_	-	134,871
Unrealized gains on cash flow hedges				1,559	—	_	-	1,559
Accretion of non-credit portion of other-than- temporary impairment losses to the carrying value of held-to-maturity securities		_		_	599		-	599
Total other comprehensive income (loss)		134,098		6,654	 599	(1:	5)	141,336
Balance at September 30, 2020	\$	109,460	\$	(133,991)	\$ (6,971)	\$ 1,00	;	\$ (30,497)

<sup>(1)</sup>Net unrealized gains (losses) on available-for-sale securities are net of unrealized gains and losses relating to hedged interest rate risk included in net income.

	Gains Avai	Inrealized (Losses) on lable-for- Sale urities <sup>(1)</sup>	Ga	Net Inrealized ins (Losses) Cash Flow Hedges	0	on-Credit Portion of ther-than-Temporary mpairment Losses on Held-to-Maturity Securities	Postretirement Benefits		Total AOCI
Nine Months Ended September 30, 2021									
Balance at January 1, 2021	\$	172,361	\$	(119,602)	\$	(6,402)	\$ 903	\$	47,260
Reclassifications from AOCI to net income									
Losses on cash flow hedges included in interest expense		_		16,677		_	_		16,677
Amortization of prior service costs and net actuarial gains recognized in other income (loss)		_		_		_	(35)		(35)
Other amounts of other comprehensive income (loss)									
Net unrealized gains on available-for-sale securities		94,060		_		_	_		94,060
Unrealized gains on cash flow hedges		—		33,914		_	—		33,914
Accretion of non-credit portion of other-than- temporary impairment losses to the carrying value of held-to-maturity securities		_		_		1,490	_		1,490
Total other comprehensive income (loss)		94,060		50,591		1,490	(35)		146,106
Balance at September 30, 2021	\$	266,421	\$	(69,011)	\$	(4,912)	\$ 868	\$	193,366
Nine Months Ended September 30, 2020									
Balance at January 1, 2020	\$	144,833	\$	(38,194)	\$	(8,640)	\$ 1,050	\$	99,049
Reclassifications from AOCI to net income									
Realized gains on sales of available-for-sale securities included in net income		(773)		_			_		(773)
Losses on cash flow hedges included in interest expense		_		9,273		_	—		9,273
Amortization of prior service costs and net actuarial gains recognized in other income (loss)		_		_		_	(45)		(45)
Other amounts of other comprehensive income (loss)									
Net unrealized losses on available-for-sale securities		(34,600)		_		_	_		(34,600)
Unrealized losses on cash flow hedges		_		(105,070)		_	_		(105,070)
Accretion of non-credit portion of other-than- temporary impairment losses to the carrying value of held-to-maturity securities		_		_		1,669	_		1,669
Total other comprehensive income (loss)		(35,373)		(95,797)		1,669	(45)		(129,546)
Balance at September 30, 2020	\$	109,460	\$	(133,991)	\$	(6,971)	\$ 1,005	\$	(30,497)

(1) Net unrealized gains (losses) on available-for-sale securities are net of unrealized gains and losses relating to hedged interest rate risk included in net income.

# ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion and analysis of financial condition and results of operations should be read in conjunction with the financial statements and notes thereto included in "Item 1. Financial Statements."

#### **Forward-Looking Information**

This quarterly report contains forward-looking statements that reflect current beliefs and expectations of the Federal Home Loan Bank of Dallas (the "Bank") about its future results, performance, liquidity, financial condition, prospects and opportunities. These statements are identified by the use of forward-looking terminology, such as "anticipates," "plans," "believes," "could," "estimates," "may," "should," "would," "will," "might," "expects," "intends" or their negatives or other similar terms. The Bank cautions that forward-looking statements involve risks or uncertainties that could cause the Bank's actual results to 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. As a result, undue reliance should not be placed on these statements.

These risks and uncertainties include, without limitation, evolving economic and market conditions, political events, and the impact of competitive business forces. The risks and uncertainties related to evolving economic and market conditions include, but are not limited to, changes in interest rates, changes in the Bank's access to the capital markets, changes in the cost of the Bank's debt, changes in the ratings on the Bank's debt, adverse consequences resulting from a significant regional, national or global economic downturn (including, but not limited to, reduced demand for the Bank's products and services), credit and prepayment risks, changes in the financial health of the Bank's members or non-member borrowers and the ongoing effects from the COVID-19 pandemic. Among other things, political events could possibly lead to changes in the Bank's regulatory environment or its status as a government-sponsored enterprise ("GSE"), or to changes in the regulatory environment for the Bank's members or non-member borrowers. Risks and uncertainties related to competitive business forces include, but are not limited to, the potential loss of a significant amount of member borrowings through acquisitions or other means or changes in the relative competitiveness of the Bank's products and services for member institutions. For a more detailed discussion of the risk factors applicable to the Bank, see "Item 1A — Risk Factors" in the Bank's Annual Report on Form 10-K for the year ended December 31, 2020, which was filed with the Securities and Exchange Commission ("SEC") on March 24, 2021 (the "2020 10-K"). The Bank undertakes no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events, changed circumstances, or any other reason.

## **Overview**

#### **Business**

The Bank is one of 11 district Federal Home Loan Banks (each individually a "FHLBank" and collectively the "FHLBanks" and, together with the Federal Home Loan Banks Office of Finance ("Office of Finance"), a joint office of the FHLBanks, the "FHLBank System") that were created by the Federal Home Loan Bank Act of 1932. The FHLBanks serve the public by enhancing the availability of credit for residential mortgages, community lending and targeted community development. As independent, member-owned cooperatives, the FHLBanks seek to maintain a balance between their public purpose and their ability to provide adequate returns on the capital supplied by their members. The Federal Housing Finance Agency ("Finance Agency"), an independent agency in the executive branch of the U.S. government, is responsible for supervising and regulating the FHLBanks and the Office of Finance. The Finance Agency's stated mission is to ensure that the housing GSEs, including the FHLBanks, operate in a safe and sound manner so that they serve as a reliable source of liquidity and funding for housing finance and community investment. Consistent with this mission, the Finance Agency establishes policies and regulations covering the operations of the FHLBanks.

The Bank serves eligible financial institutions in Arkansas, Louisiana, Mississippi, New Mexico and Texas (collectively, the Ninth District of the FHLBank System). The Bank's primary business is lending relatively low cost funds (known as advances) to its member institutions, which include commercial banks, savings institutions, insurance companies, credit unions, and Community Development Financial Institutions that are certified under the Community Development Banking and Financial Institutions Act of 1994. While not members of the Bank, housing associates, including state and local housing authorities, that meet certain statutory criteria may also borrow from the Bank. The Bank also maintains a portfolio of investments, substantially all of which are highly rated, for liquidity purposes and to provide additional earnings. Additionally, the Bank holds interests in a portfolio of predominately conventional mortgage loans that were acquired through the Mortgage Partnership Finance<sup>®</sup> ("MPF"<sup>®</sup>) Program administered by the FHLBank of Chicago. Shareholders' return on their investment includes dividends (which are typically paid quarterly in the form of capital stock) and the value derived from access to the Bank's products and services. Historically, the Bank has balanced the financial rewards to shareholders by seeking to pay a dividend that meets or exceeds the return on alternative short-term money market investments available to shareholders, while lending funds at the lowest rates expected to be compatible with that objective and its objective to build retained earnings over time.

The Bank's capital stock is not publicly traded and can be held only by members of the Bank, by non-member institutions that acquire stock by virtue of acquiring member institutions, by a federal or state agency or insurer acting as a receiver of a closed institution, or by former members of the Bank that retain capital stock to support advances or other obligations that remain outstanding or until any applicable stock redemption or withdrawal notice period expires. All members must hold stock in the Bank. The Bank's capital stock has a par value of \$100 per share and is purchased, redeemed, repurchased and transferred only at its par value. By regulation, the parties to a transaction involving the Bank's stock can include only the Bank and its member institutions (or non-member institutions or former members, as described above). While a member could transfer stock to another member of the Bank, that transfer could occur only upon approval of the Bank and then only at par value. Members may redeem excess stock, or withdraw from membership and redeem all outstanding capital stock, with five years' written notice to the Bank.

The FHLBanks' debt instruments (known as consolidated obligations) are their primary source of funds and are the joint and several obligations of all 11 FHLBanks. Consolidated obligations are issued through the Office of Finance (acting as agent for the FHLBanks) and generally are publicly traded in the over-the-counter market. The Bank records on its statements of condition only those consolidated obligations for which it receives the proceeds. Consolidated obligations are not obligations of the U.S. government and the U.S. government does not guarantee them. Consolidated obligations are currently rated Aaa/P-1 by Moody's Investors Service ("Moody's") and AA+/A-1+ by S&P Global Ratings ("S&P"). These ratings indicate that each of these nationally recognized statistical rating organizations ("NRSROs") has concluded that the FHLBanks have a very strong capacity to meet their commitments to pay principal and interest on consolidated obligations. The ratings also reflect the FHLBank System's status as a GSE. Historically, the FHLBanks' GSE status and very high credit ratings on consolidated obligations have provided the FHLBanks with excellent capital markets access. Deposits, other borrowings and the proceeds from capital stock issued to members are also sources of funds for the Bank.

In addition to ratings on the FHLBanks' consolidated obligations, each FHLBank is rated individually by both S&P and Moody's. These individual FHLBank ratings apply to the individual obligations of the respective FHLBanks, such as interest rate derivatives, deposits and letters of credit. As of September 30, 2021, Moody's had assigned a deposit rating of Aaa/P-1 to each of the FHLBanks and S&P had rated each of the FHLBanks AA+/A-1+.

Shareholders, bondholders and prospective shareholders and bondholders should understand that these credit ratings are not a recommendation to buy, hold or sell securities and they may be subject to revision or withdrawal at any time by the NRSRO. The ratings from each of the NRSROs should be evaluated independently.

The Bank conducts its business and fulfills its public purpose primarily by acting as a financial intermediary between its members and the capital markets. The intermediation of the timing, structure and amount of its members' credit needs with the investment requirements of the Bank's creditors is made possible by the extensive use of interest rate exchange agreements, including interest rate swaps, swaptions and caps.

The Bank's profitability objective is to generate sufficient earnings to allow the Bank to continue to increase its retained earnings and pay dividends on capital stock at rates that meet the Bank's dividend targets. All other things being equal, the Bank's earnings are typically expected to rise and fall with the general level of market interest rates, particularly short-term money market rates, and the Bank's total capital and asset size. Other factors that could have an effect on the Bank's future earnings include the level, volatility of and relationships between short-term money market rates such as federal funds, the Secured Overnight Financing Rate ("SOFR") and one-month and three-month LIBOR; the availability and cost of the Bank's short- and long-term debt relative to benchmark rates such as federal funds, SOFR, one- and three-month LIBOR, and long-term fixed mortgage rates; the availability of interest rate exchange agreements at competitive prices; whether the Bank's larger borrowers continue to be members of the Bank and the level at which they maintain their borrowing activity; the extent to which the Bank's members continue to sell mortgage loans to the Bank; and the impact of economic and financial market conditions on both the near-term and longer-term demand for the Bank's credit products.

Currently, the Bank's target for quarterly dividends on Class B-1 Stock is an annualized rate that approximates the average onemonth LIBOR rate for the immediately preceding quarter. The target range for quarterly dividends on Class B-2 Stock is currently an annualized rate that approximates the average one-month LIBOR rate for the preceding quarter plus 0.5 - 1.0 percent. While the Bank has had a long-standing practice of paying quarterly dividends, future dividend payments cannot be assured.

The Bank operates in only one reportable segment. All of the Bank's revenues are derived from U.S. operations.

The following table summarizes the Bank's membership, by type of institution, as of September 30, 2021 and December 31, 2020.

	September 30, 2021	December 31, 2020
Commercial banks	552	557
Credit unions	126	127
Savings institutions	54	55
Insurance companies	56	52
Community Development Financial Institutions	7	7
Total members	795	798
Housing associates	8	8
Non-member borrowers	2	3
Total	805	809
Community Financial Institutions ("CFIs") <sup>(1)</sup>	521	537

## MEMBERSHIP SUMMARY

(1) The figures shown reflect the number of institutions that were Community Financial Institutions as of September 30, 2021 and December 31, 2020 based upon the definitions of Community Financial Institutions that applied as of those dates.

For 2021, Community Financial Institutions ("CFIs") are defined to include all institutions insured by the Federal Deposit Insurance Corporation ("FDIC") with average total assets as of December 31, 2020, 2019 and 2018 of less than \$1.239 billion. For 2020, CFIs were defined as FDIC-insured institutions with average total assets as of December 31, 2019, 2018 and 2017 of less than \$1.224 billion.

## Financial Market Conditions

During the first nine months of 2021, economic growth in the United States continued to recover from the negative impact of the novel coronavirus known as COVID-19, which was declared a global pandemic by the World Health Organization on March 11, 2020. During 2020, COVID-19 caused significant economic and financial turmoil both in the U.S. and around the world. Although vaccinations are progressing, the pace of vaccination has slowed and the emergence of variants has complicated efforts to halt the spread of the virus. Many businesses in the Bank's district and across the U.S. were forced to shut down operations during 2020 in an attempt to slow the spread of the virus. Many of these previously closed businesses have now reopened while others have increased capacity, in many cases with some restrictions. Further, many businesses are experiencing supply chain issues and worker shortages. The extent to which the COVID-19 pandemic affects the Bank's business will depend on many factors that remain uncertain and difficult to predict including, but not limited to, the duration, spread and severity of the pandemic; fiscal or monetary stimulus; the actions taken to contain the pandemic; and how quickly and to what extent normal economic and operating conditions can resume.

The gross domestic product increased at an annual rate of 2.0 percent during the third quarter of 2021, after increasing at an annual rate of 6.7 percent during the second quarter of 2021, increasing at an annual rate of 6.3 percent during the first quarter of 2021 and decreasing at an annual rate of 3.4 percent during 2020. The increases in the gross domestic product during the first nine months of 2021 reflected continued efforts to reopen businesses and resume activities that had been postponed or restricted due to COVID-19. The nationwide unemployment rate decreased from 6.7 percent at December 31, 2020 to 6.0 percent at March 31, 2021, 5.9 percent at June 30, 2021, and 4.8 percent at September 30, 2021, reflecting the improvement in economic activity since the beginning of the pandemic.

In an unscheduled meeting on March 15, 2020, the Federal Open Market Committee ("FOMC") lowered its target for the federal funds rate by 100 basis points to a range between 0 percent and 0.25 percent, noting that the COVID-19 outbreak had harmed communities and disrupted economic activity in many countries, including the United States, and had significantly affected global financial conditions. Earlier in that same month in another unscheduled meeting, the FOMC had lowered its target for the federal funds rate by 50 basis points, to a range between 1.00 percent and 1.25 percent. The FOMC maintained the target for the federal funds rate at a range between 0 percent and 0.25 percent throughout the remainder of 2020 and the first nine months of 2021. At its most recent scheduled meeting on November 2/3, 2021, the FOMC maintained the target for the federal funds rate at that range and stated that it expects to maintain this target range until labor market conditions have reached levels consistent with the FOMC's assessments of maximum employment and inflation has risen to 2 percent and is on track to moderately exceed 2 percent for some time. With inflation having run persistently below its longer-run goal of 2 percent, the FOMC stated that it will aim to achieve inflation moderately above 2 percent for some time so that inflation averages 2 percent

over time and longer-term inflation expectations remain well anchored at 2 percent. In its statement, the FOMC noted that inflation is currently elevated, largely reflecting factors that it expects will be transitory. According to the FOMC, supply and demand imbalances related to the pandemic and the reopening of the economy have contributed to sizable price increases in some sectors.

In 2020, in response to the instability caused by the COVID-19 pandemic, the FOMC stated that, to support the smooth functioning of markets for Treasury securities and agency MBS that are central to the flow of credit to households and businesses, it would increase its holdings of Treasury securities by at least \$500 billion and its holdings of agency MBS by at least \$200 billion and would reinvest all principal payments from the Federal Reserve's holdings of agency debt and agency MBS in agency MBS. At its scheduled meeting on November 2/3, 2021, the FOMC stated that, in light of the substantial further progress the economy has made toward the FOMC's goals since December 2020, it will begin reducing the monthly pace of its net asset purchases by \$10 billion for Treasury securities and \$5 billion for agency MBS. Beginning in November 2021, the FOMC stated it will increase its holdings of Treasury securities by at least \$70 billion per month (down from \$80 billion per month in recent months) and of agency MBS by at least \$35 billion per month (down from \$40 billion per month in recent months). Beginning in December 2021, the FOMC will increase its holdings of Treasury securities by at least \$60 billion per month in recent months) at least \$30 billion per month. The FOMC stated that similar reductions in the pace of net asset purchases will likely be appropriate each month, but it is prepared to adjust the pace of purchases if warranted by changes in the economic outlook.

Due to the dramatic increase in volatility across the global capital markets that occurred at the onset of the COVID-19 pandemic, the Federal Reserve also undertook a number of other emergency actions. Notably, the Federal Reserve increased substantially its provision of liquidity to the repo and U.S. Treasury markets via open market operations while also providing liquidity to related markets, such as the commercial paper market, via an array of new programs, many of which expired on March 31, 2021. On July 28, 2021, the FOMC announced the establishment of two standing repurchase agreement facilities (a domestic facility and a repo facility for foreign and international monetary authorities), which are intended to support the effective implementation of monetary policy and smooth market functioning.

In the weeks before and after the FOMC's early March 2020 reduction in the federal funds target rate, interest rates declined significantly. The decline in interest rates abated somewhat during the second half of 2020, but interest rates remained low. During the first nine months of 2021, short-term interest rates continued to decline; however, longer term interest rates increased. The following table presents information on various market interest rates at September 30, 2021 and December 31, 2020 and various average market interest rates for the three and nine-month periods ended September 30, 2021 and 2020.

	Endin	g Rate	Averag	e Rate	Avera	ge Rate
	September 30, 2021	December 31, 2020	Third Quarter 2021	Third Quarter 2020	Nine Months Ended September 30, 2021	Nine Months Ended September 30, 2020
Federal Funds Target <sup>(1)</sup>	0.25%	0.25%	0.25%	0.25%	0.25%	0.63%
Average Effective Federal Funds Rate <sup>(2)</sup>	0.06%	0.09%	0.09%	0.09%	0.08%	0.47%
SOFR <sup>(1)</sup>	0.05%	0.07%	0.05%	0.09%	0.04%	0.45%
1-month LIBOR <sup>(1)</sup>	0.08%	0.14%	0.09%	0.16%	0.10%	0.64%
3-month LIBOR <sup>(1)</sup>	0.13%	0.24%	0.13%	0.25%	0.16%	0.79%
2-year LIBOR <sup>(1)</sup>	0.38%	0.20%	0.31%	0.22%	0.27%	0.57%
5-year LIBOR <sup>(1)</sup>	1.05%	0.43%	0.89%	0.32%	0.84%	0.65%
10-year LIBOR <sup>(1)</sup>	1.51%	0.93%	1.33%	0.64%	1.42%	0.89%
3-month U.S. Treasury <sup>(1)</sup>	0.04%	0.09%	0.05%	0.11%	0.04%	0.45%
2-year U.S. Treasury <sup>(1)</sup>	0.28%	0.13%	0.23%	0.14%	0.18%	0.47%
5-year U.S. Treasury <sup>(1)</sup>	0.98%	0.36%	0.80%	0.27%	0.75%	0.59%
10-year U.S. Treasury <sup>(1)</sup>	1.52%	0.93%	1.32%	0.65%	1.42%	0.90%

<sup>(1)</sup> Source: Bloomberg (reflects upper end of target range)

<sup>(2)</sup> Source: Federal Reserve Statistical Release

## Year-to-Date 2021 Summary

- The Bank ended the third quarter of 2021 with total assets of \$60.2 billion compared with \$64.9 billion at the end of 2020. The \$4.7 billion decrease in total assets for the nine months ended September 30, 2021 was attributable primarily to decreases in the Bank's advances (\$7.7 billion), long-term investments (\$0.9 billion) and mortgage loans held for portfolio (\$0.1 billion), partially offset by an increase in the Bank's short-term liquidity portfolio (\$4.1 billion).
- Total advances decreased from \$32.5 billion at December 31, 2020 to \$24.8 billion at September 30, 2021. For the three and nine months ended September 30, 2021, the Bank's average advances were \$32.3 billion and \$30.6 billion, respectively. The Bank's average advances for the three and nine months ended September 30, 2021 were significantly higher than the advances balance at September 30, 2021 due largely to intra-month borrowings by certain credit union members, which may or may not continue.
- Mortgage loans held for portfolio decreased from \$3.4 billion at December 31, 2020 to \$3.3 billion at September 30, 2021.
- The Bank's net income for the three and nine months ended September 30, 2021 was \$41.3 million and \$117.2 million, respectively, as compared to \$47.7 million and \$166.2 million during the corresponding periods in 2020. For discussion and analysis of the changes in net income, see the section entitled "Results of Operations" beginning on page 62 of this report.
- At all times during the first nine months of 2021, the Bank was in compliance with all of its regulatory capital requirements. In addition, the Bank's retained earnings increased to \$1.515 billion at September 30, 2021 from \$1.408 billion at December 31, 2020. Retained earnings was 2.5 percent and 2.2 percent of total assets at September 30, 2021 and December 31, 2020, respectively.
- During the first nine months of 2021, the Bank paid dividends totaling \$10.6 million. The Bank's first quarter 2021 dividends on Class B-1 Stock and Class B-2 Stock were paid at annualized rates of 0.15 percent (a rate equal to average one-month LIBOR for the fourth quarter of 2020) and 1.15 percent (a rate equal to average one-month LIBOR for the fourth quarter of 2020) and 1.15 percent (a rate equal to average one-month LIBOR for the fourth quarter of 2020) and 1.15 percent (a rate equal to average one-month LIBOR for the fourth quarter of 2020 plus 1.0 percent), respectively. The Bank's second quarter 2021 dividends on Class B-1 Stock and Class B-2 Stock were paid at annualized rates of 0.12 percent (a rate equal to average one-month LIBOR for the first quarter of 2021) and 1.12 percent (a rate equal to average one-month LIBOR for the first quarter of 2021 plus 1.0 percent), respectively. The Bank's third quarter 2021 dividends on Class B-1 Stock and Class B-2 Stock were paid at annualized rates of 0.10 percent), respectively. The Bank's third quarter 2021 dividends on Class B-1 Stock and Class B-2 Stock were paid at annualized rates of 0.10 percent (a rate equal to average one-month LIBOR for the second quarter of 2021) and 1.10 percent (a rate equal to average one-month LIBOR for the second quarter of 2021) and 1.10 percent (a rate equal to average one-month LIBOR for the second quarter of 2021) and 1.10 percent (a rate equal to average one-month LIBOR for the second quarter of 2021) and 1.10 percent (a rate equal to average one-month LIBOR for the second quarter of 2021) and 1.10 percent (a rate equal to average one-month LIBOR for the second quarter of 2021) and 1.10 percent (a rate equal to average one-month LIBOR for the second quarter of 2021) plus 1.0 percent), respectively.

## Selected Financial Data

## SELECTED FINANCIAL DATA

(dollars in thousands)

		2021		2020			
	Third Quarter	Second Quarter	First Quarter	Fourth Quarter		Third Quarter	
Balance sheet (at quarter end)							
Advances	\$ 24,775,990	\$ 24,922,369	\$ 25,621,279	\$ 32,478,944	\$	34,292,478	
Investments <sup>(1)</sup>	31,686,391	30,152,031	25,187,292	25,660,696		28,049,888	
Mortgage loans held for portfolio	3,341,124	3,209,558	3,210,422	3,426,611		3,711,099	
Allowance for credit losses on mortgage loans	3,303	3,487	3,632	3,925		5,755	
Total assets	60,202,756	58,627,159	61,113,776	64,912,526		66,295,853	
Consolidated obligations — discount notes	5,155,955	11,371,181	13,336,683	22,171,296		26,739,876	
Consolidated obligations — bonds	49,193,449	41,615,443	41,776,784	37,112,721		34,099,828	
Total consolidated obligations <sup>(2)</sup>	54,349,404	52,986,624	55,113,467	59,284,017		60,839,704	
Mandatorily redeemable capital stock <sup>(3)</sup>	6,653	6,690	6,811	13,864		13,810	
Capital stock — putable	2,154,894	2,092,739	2,008,260	2,101,380		2,181,608	
Unrestricted retained earnings	1,257,514	1,227,838	1,208,741	1,174,359		1,152,657	
Restricted retained earnings	257,317	249,065	243,461	233,886		227,393	
Total retained earnings	1,514,831	1,476,903	1,452,202	1,408,245		1,380,050	
Accumulated other comprehensive income (loss)	193,366	221,398	259,332	47,260		(30,497)	
Total capital	3,863,091	3,791,040	3,719,794	3,556,885		3,531,161	
Dividends paid <sup>(3)</sup>	3,333	3,322	3,916	4,267		6,879	
<b>Income statement</b> (for the quarter)							
Net interest income after provision (reversal) for mortgage loan losses <sup>(4)</sup>	\$ 67,257	\$ 51,162	\$ 80,055	\$ 74,831	\$	79,457	
Other income (loss)	4,600	5,656	(1,576)	107		(708)	
Other expense	26,010	25,680	25,287	38,869		25,731	
AHP assessment	4,586	3,115	5,319	3,607		5,305	
Net income	41,261	28,023	47,873	32,462		47,713	
Performance ratios							
Net interest margin <sup>(4)(5)</sup>	0.46 %	0.34 %	0.53 %	0.46 %		0.48 %	
Net interest spread <sup>(4)(6)</sup>	0.45	0.33	0.52	0.45		0.45	
Return on average assets	0.28	0.19	0.32	0.21		0.28	
Return on average equity	4.21	2.95	5.37	3.64		5.44	
Return on average capital stock (7)	7.45	5.39	9.54	5.93		8.36	
Total average equity to average assets	6.58	6.43	6.05	5.64		5.17	
Regulatory capital ratio <sup>(8)</sup>	6.11	6.10	5.67	5.43		5.39	
Dividend payout ratio <sup>(3)(9)</sup>	8.08	11.85	8.18	13.14		14.42	

- <sup>(1)</sup> Investments consist of interest-bearing deposits, federal funds sold, securities purchased under agreements to resell and securities classified as held-to-maturity, available-for-sale and trading.
- (2) The Bank is jointly and severally liable with the other FHLBanks for the payment of principal and interest on the consolidated obligations of all of the FHLBanks. At September 30, 2021, June 30, 2021, March 31, 2021, December 31, 2020 and September 30, 2020, the outstanding consolidated obligations (at par value) of all of the FHLBanks totaled approximately \$641 billion, \$667 billion, \$696 billion, \$747 billion and \$820 billion, respectively. As of those dates, the Bank's outstanding consolidated obligations (at par value) were \$54 billion, \$55 billion, \$59 billion and \$61 billion, respectively.
- (3) Mandatorily redeemable capital stock represents capital stock that is classified as a liability under accounting principles generally accepted in the United States of America. Dividends on mandatorily redeemable capital stock are recorded as interest expense and excluded from dividends paid. Dividends paid on mandatorily redeemable capital stock totaled \$5 thousand, \$8 thousand, \$10 thousand, \$31 thousand and \$10 thousand for the quarters ended September 30, 2021, June 30, 2021, March 31, 2021, December 31, 2020 and September 30, 2020, respectively.
- <sup>(4)</sup> Under accounting principles generally accepted in the United States of America ("U.S. GAAP"), changes in the fair value of a derivative in a qualifying fair value hedge along with changes in the fair value of the hedged asset or liability attributable to the hedged risk (the net amount of which is referred to as fair value hedge ineffectiveness) are recorded in net interest income. Fair value hedge ineffectiveness increased (reduced) net interest income by \$8.9 million, (\$5.8 million), \$19.5 million, \$7.9 million and \$4.6 million for the quarters ended September 30, 2021, June 30, 2021, March 31, 2021, December 31, 2020 and September 30, 2020, respectively. For additional discussion, see the section entitled "Results of Operations" beginning on page 62 of this report.
- <sup>(5)</sup> Net interest margin is net interest income as a percentage of average earning assets.
- <sup>(6)</sup> Net interest spread is the difference between the yield on interest-earning assets and the cost of interest-bearing liabilities.
- <sup>(7)</sup> Return on average capital stock is derived by dividing net income by average capital stock balances excluding mandatorily redeemable capital stock.
- <sup>(8)</sup> The regulatory capital ratio is computed by dividing regulatory capital (the sum of capital stock putable, mandatorily redeemable capital stock and retained earnings) by total assets at each quarter-end.
- <sup>(9)</sup> Dividend payout ratio is computed by dividing dividends paid by net income for each quarter.

#### **Legislative and Regulatory Developments**

#### LIBOR Transition – 2021 ISDA Interest Rate Derivatives Definitions

On June 11, 2021, the International Swaps and Derivatives Association ("ISDA") published the 2021 ISDA Interest Rate Derivatives Definitions ("2021 ISDA Definitions"), which will update and consolidate the frequently supplemented 2006 ISDA Definitions as the standard definitions for cleared and uncleared interest rate derivatives. The 2021 ISDA Definitions incorporate prior supplements to the 2006 ISDA Definitions in addition to other changes which were made to conform to updates in market practice and regulation. Both the 2006 ISDA Definitions (as supplemented effective January 25, 2021) and the 2021 ISDA Definitions contain ISDA-recommended fallbacks for interest rate derivatives referencing an Interbank Offered Rate, including U.S. Dollar LIBOR. ISDA announced that implementation of the 2021 ISDA Definitions was expected to occur for clearing houses, trading venues and other market infrastructures in early October 2021. While market participants may continue to use the current 2006 ISDA Definitions, ISDA will not incorporate any further supplements following implementation of the 2021 ISDA Definitions.

The future implementation of the 2021 ISDA Definitions is not expected to have a material impact on the Bank's financial condition or results of operations.

#### Fair Housing and Fair Lending Enforcement

On July 9, 2021, the Finance Agency published a Policy Statement on Fair Lending to communicate its general position on monitoring and information gathering, supervisory examinations, and administrative enforcement related to the Equal Credit Opportunity Act, the Fair Housing Act, and the Federal Housing Enterprises Financial Safety and Soundness Act. The Policy Statement became effective on the date of publication.

On August 12, 2021, the Finance Agency and the U.S. Department of Housing and Urban Development announced that they had entered into a Memorandum of Understanding regarding fair housing and fair lending enforcement. Under the Memorandum of Understanding, the two agencies will focus on enhancing their enforcement of the Fair Housing Act, and their oversight of Fannie Mae, Freddie Mac, and the FHLBanks.

The Bank is continuing to monitor these activities in order to assess their potential impact on the Bank.

## FHLBank Membership

On September 9, 2021, the Finance Agency published a Supervisory Letter on FHLBank Membership Issues that covers five areas: (1) Requirements for De Novo Community Development Financial Institutions; (2) Automatic Transfer of Membership; (3) Large Non-Member Institution Merging with a Small Member; (4) Applicant's Compliance with "Financial Condition" Requirement; and (5) Definition of Insurance Company. The Supervisory Letter is intended to provide uniform guidance to the FHLBanks in the event they encounter similar circumstances. The Bank is evaluating the Supervisory Letter and its potential impact on the Bank's membership.

#### U.S. Treasury and Fannie Mae Preferred Stock Purchase Agreement

On January 14, 2021, the U.S. Treasury and Fannie Mae entered into a letter agreement amending the terms of their Preferred Stock Purchase Agreement ("PSPA"), which could impact Participating Financial Institutions ("PFIs") that participate in the MPF Xtra® program. As more fully described in the Bank's 2020 10-K, MPF Xtra provides PFIs an opportunity to sell certain fixed-rate, conforming mortgage loans into the secondary market. Under this program, loans are sold to the FHLBank of Chicago and are concurrently sold to Fannie Mae as a third-party investor. Pursuant to the PSPA, the U.S. Treasury provides liquidity to Fannie Mae in exchange for senior preferred stock. Under the amendment, which was to take effect January 1, 2022, the Finance Agency (acting as conservator for Fannie Mae) and the U.S. Treasury agreed to limit the dollar volume of loans that Fannie Mae could purchase from a single seller through Fannie Mae's cash window to \$1.5 billion per year. MPF Xtra loans sold by the FHLBank of Chicago to Fannie Mae utilize this cash window process. Based on MPF Xtra volumes across the FHLBank System, the PSPA amendment would significantly curtail MPF Xtra cash window sales. On September 14, 2021, the Finance Agency and the U.S. Treasury temporarily suspended certain provisions of the PSPA, including limits on Fannie Mae's cash window limits, until at least September 14, 2022. While the amendment will negatively impact PFI's ability to sell loans through the program unless a solution is developed, reduced volumes (and the resulting reduction in fees) would not be expected to have a significant impact on the Bank's financial condition or results of operations.

## Regulatory Interpretation on Eligibility of Mortgage Loan Participations as Collateral for FHLBank Advances

On October 4, 2021, the Finance Agency published a Regulatory Interpretation on Eligibility of Mortgage Loan Participations as Collateral for Federal Home Loan Bank Advances. The Regulatory Interpretation addresses whether an FHLBank can accept as collateral to secure advances mortgage loan participations that cannot be readily liquidated in the form in which they are to be pledged. The Regulatory Interpretation concludes that mortgage loan participations must meet the requirements of 12 CFR 1266.7(a)(4), including the requirement that the collateral can be "liquidated in due course" in order to be eligible to secure FHLBank advances. It further concludes that participations for which there would be a known impediment to liquidation do not meet such requirement and therefore are not eligible collateral for advances. Finally, the Regulatory Interpretation rescinds prior regulatory guidance which provided that mortgage loan participations may be eligible as collateral under regulatory provisions other than 12 CFR 1266.7(a)(4). The Regulatory Interpretation will become effective on December 13, 2021. The Bank is currently evaluating the Regulatory Interpretation and the impact it could have on members' pledged collateral.

## Affordable Housing and Community Investment

Legislation was recently introduced in the U.S. Senate and U.S. House of Representatives which, if enacted in its proposed form, would require the FHLBanks to set aside a higher percentage of their earnings for their affordable housing and community investment programs than is currently required under law. The Bank is actively monitoring this proposal.

## **Financial Condition**

The following table provides selected period-end balances as of September 30, 2021 and December 31, 2020, as well as selected average balances for the nine-month period ended September 30, 2021 and the year ended December 31, 2020. As shown in the table, the Bank's total assets decreased by 7.3 percent between December 31, 2020 and September 30, 2021, due primarily to decreases in the Bank's advances (\$7.7 billion), long-term investments (\$0.9 billion) and mortgage loans held for portfolio (\$0.1 billion), partially offset by an increase in the Bank's short-term liquidity portfolio (\$4.1 billion). As the Bank's assets decreased, the funding for those assets also decreased. During the nine months ended September 30, 2021, total consolidated obligations decreased by \$4.9 billion, as consolidated obligation discount notes decreased by \$17.0 billion and consolidated obligation bonds increased by \$12.1 billion. The activity in each of the major balance sheet captions is discussed in the sections following the table.

## SUMMARY OF CHANGES IN FINANCIAL CONDITION

(dollars in millions)

			Increase (I	Decrease)	Balance at
	 Balance		Amount	Percentage	December 31, 2020
Advances	\$ 24,776	\$	(7,703)	(23.7)%	\$ 32,479
Short-term liquidity holdings					
Non-interest bearing excess cash balances	215		(2,885)	(93.1)%	3,100
Interest-bearing deposits	846		87	11.5 %	759
Securities purchased under agreements to resell	10,750		9,750	975.0 %	1,000
Federal funds sold	3,124		2,209	241.4 %	915
Trading securities					
U.S. Treasury Bills			(3,316)	(100.0)%	3,316
U.S. Treasury Notes	 98		(1,774)	(94.8)%	1,872
Total short-term liquidity holdings	 15,033		4,071	37.1 %	10,962
Long-term investments					
Trading securities (U.S. Treasury Note)	110		(3)	(2.7)%	113
Available-for-sale securities	16,082		(706)	(4.2)%	16,788
Held-to-maturity securities	676		(221)	(24.6)%	897
Total long-term investments	16,868		(930)	(5.2)%	17,798
Mortgage loans held for portfolio, net	3,338		(85)	(2.5)%	3,423
Total assets	60,203		(4,710)	(7.3)%	64,913
Consolidated obligations					
Consolidated obligations — bonds	49,193		12,080	32.5 %	37,113
Consolidated obligations — discount notes	5,156		(17,015)	(76.7)%	22,171
Total consolidated obligations	 54,349	. <u> </u>	(4,935)	(8.3)%	59,284
Mandatorily redeemable capital stock	7		(7)	(50.0)%	14
Capital stock	2,155		54	2.6 %	2,101
Retained earnings	1,515		107	7.6 %	1,408
č	,				,
Average total assets	59,365		(12,563)	(17.5)%	71,928
Average capital stock	2,107		(326)	(13.4)%	2,433
Average mandatorily redeemable capital stock	9		(14)	(60.9)%	23

#### <u>Advances</u>

The Bank's advances balances (at par value) decreased by \$7.4 billion (23 percent) during the first nine months of 2021. Advances to commercial banks decreased \$6.0 billion, contributing significantly to the overall decline in advances during the period. Comerica Bank (the Bank's third largest borrower at December 31, 2020), Texas Capital Bank, N.A. (the Bank's second largest borrower at December 31, 2020) and Origin Bank (the Bank's ninth largest borrower at December 31, 2020) reduced their advances by \$2.8 billion, \$0.8 billion and \$0.7 billion, respectively, during the period. Advances outstanding to these institutions totaled \$2.8 billion, \$3.0 billion and \$0.9 billion, respectively, at December 31, 2020. During this time, the level of liquidity in the financial markets was significantly elevated due in large part to the various initiatives that were undertaken by the Federal Reserve in response to the pandemic, which in turn dampened demand for the Bank's advances.

While it is difficult to predict the future level of advances, it is possible that the Bank's advances could continue to fall if the level of liquidity in the financial markets remains elevated. Additional U.S. government stimulus, if any, could further increase the already elevated level of liquidity which could, in turn, diminish even further the current subdued demand for the Bank's advances.

The following table presents advances outstanding, by type of institution, as of September 30, 2021 and December 31, 2020.

	September	30, 2021		December 31, 2020			
	 Amount	Percent	Amount		Percent		
Commercial banks	\$ 13,399	55 %	\$	19,415	61 %		
Insurance companies	6,977	29		7,111	22		
Credit unions	2,434	10		3,316	10		
Savings institutions	1,545	6		1,889	6		
Community Development Financial Institutions	 25			25	_		
Total member advances	24,380	100		31,756	99		
Housing associates	89	_		154	1		
Non-member borrowers	 			5	_		
Total par value of advances	\$ 24,469	100 %	\$	31,915	100 %		
Total par value of advances outstanding to CFIs <sup>(1)</sup>	\$ 3,052	12 %	\$	5,034	16 %		

ADVANCES OUTSTANDING BY BORROWER TYPE

(par value, dollars in millions)

<sup>(1)</sup> The figures shown reflect the advances outstanding to CFIs as of September 30, 2021 and December 31, 2020 based upon the definitions of CFIs that applied as of those dates.

At September 30, 2021, advances outstanding to the Bank's five largest borrowers totaled \$9.8 billion, representing 40.1 percent of the Bank's total outstanding advances as of that date. In comparison, advances outstanding to the Bank's five largest borrowers as of December 31, 2020 totaled \$12.3 billion, representing 38.6 percent of the total outstanding advances at that date. The following table presents the Bank's five largest borrowers as of September 30, 2021.

## FIVE LARGEST BORROWERS AS OF SEPTEMBER 30, 2021

(par value, dollars in millions)

Name	 Par Value of Advances	Percent of Total Par Value of Advances
American General Life Insurance Company	\$ 3,148	12.9 %
Texas Capital Bank, N.A.	2,200	9.0
Life Insurance Company of the Southwest	2,049	8.4
Simmons Bank	1,306	5.3
Hancock Whitney Bank	1,101	4.5
	\$ 9,804	40.1 %

The following table presents information regarding the composition of the Bank's advances by product type as of September 30, 2021 and December 31, 2020.

## ADVANCES OUTSTANDING BY PRODUCT TYPE

(par value, dollars in millions)

	 September	r 30, 2021		31, 2020	
	Balance	Percentage of Total		Balance	Percentage of Total
Fixed-rate	\$ 17,508	71.6 %	\$	21,963	68.8 %
Adjustable/variable-rate indexed	5,942	24.3		8,821	27.6
Amortizing	1,019	4.1		1,131	3.6
Total par value	\$ 24,469	100.0 %	\$	31,915	100.0 %

The Bank is required by statute and regulation to obtain sufficient collateral from members/borrowers to fully secure all advances and other extensions of credit. The Bank's collateral arrangements with its members/borrowers and the types of collateral it accepts to secure advances are described in the 2020 10-K. To ensure the value of collateral pledged to the Bank is sufficient to secure its advances, the Bank applies various haircuts, or discounts, to determine the value of the collateral against which borrowers may borrow. From time to time, the Bank reevaluates the adequacy of its collateral haircuts under a range of stress scenarios to ensure that its collateral haircuts are sufficient to protect the Bank from credit losses on advances.

In addition, as described in the 2020 10-K, the Bank reviews the financial condition of its depository institution borrowers on at least a quarterly basis to identify any borrowers whose financial condition indicates they might pose an increased credit risk and, as needed, takes appropriate action. The Bank has not experienced any credit losses on advances since it was founded in 1932 and, based on its credit extension and collateral policies, management currently does not anticipate any credit losses on advances. Accordingly, the Bank has not provided any allowance for losses on advances.

## Short-Term Liquidity Holdings

At September 30, 2021, the Bank's short-term liquidity holdings were comprised of a \$10.8 billion overnight reverse repurchase agreement with the Federal Reserve, \$3.1 billion of overnight federal funds sold, \$0.8 billion of overnight interestbearing deposits, a \$0.1 billion U.S. Treasury Note and \$0.2 billion of excess cash held at the Federal Reserve. At December 31, 2020, the Bank's short-term liquidity holdings were comprised of \$3.3 billion of U.S. Treasury Bills, \$3.1 billion of excess cash held at the Federal Reserve, \$1.9 billion of U.S. Treasury Notes, \$1.0 billion of overnight reverse repurchase agreements, \$0.9 billion of overnight federal funds sold and \$0.8 billion of overnight interest-bearing deposits. All of the Bank's federal funds sold during the nine months ended September 30, 2021 were transacted with domestic bank counterparties, U.S. subsidiaries of foreign holding companies or U.S. branches of foreign financial institutions on an overnight basis. All of the Bank's interest-bearing deposits were transacted on an overnight basis with domestic bank counterparties.

As of September 30, 2021, the Bank's overnight federal funds sold consisted of \$2.1 billion sold to counterparties rated double-A and \$1.0 billion sold to counterparties rated single-A. At that same date, substantially all of the Bank's interest-bearing deposits were held in single-A rated banks. The credit ratings presented in the two preceding sentences represent the lowest long-term rating assigned to the counterparty by Moody's or S&P.

The amount of the Bank's short-term liquidity holdings fluctuates in response to several factors, including the anticipated demand for advances, the timing and extent of advance maturities and prepayments, changes in the Bank's deposit balances, the Bank's pre-funding activities, prevailing conditions (or anticipated changes in conditions) in the short-term debt markets, the level of liquidity needed to satisfy Finance Agency requirements and the Finance Agency's expectations with regard to the Bank's core mission achievement. For a discussion of the Finance Agency's liquidity requirements, see the section below entitled "Liquidity and Capital Resources." For a discussion of the Finance Agency's guidance regarding core mission achievement, see Item 1 - Business - Core Mission Achievement in the 2020 10-K. For the nine months ended September 30, 2021, the Bank's core mission asset ("CMA") ratio was 66.7 percent. In comparison, the Bank's CMA ratio was 67.7 percent for the year ended December 31, 2020.

## Long-Term Investments

The composition of the Bank's long-term investment portfolio at September 30, 2021 and December 31, 2020 is set forth in the table below.

		(	'in milli	ons)						
		Balar	ice Sheet	t Classificatio	on	Total	Long-Term			
	Held-t	o-Maturity	Availal	ble-for-Sale	Т	rading	Inv	estments	Held-	to-Maturity
September 30, 2021	(at carı	ying value)	(at fa	air value)	(at f	fair value)	(at car	rying value)	(at	fair value)
Debentures										
U.S. government-guaranteed obligations	\$	3	\$	424	\$	110	\$	537	\$	3
GSE obligations		_		4,800		_		4,800		_
State housing agency obligations		110		_		_		110		109
Other		_		45		_		45		_
Total debentures		113		5,269		110		5,492		112
Mortgage-backed securities ("MBS") portfolio										
GSE residential MBS		529		—		—		529		535
GSE commercial MBS		—		10,813		—		10,813		—
Non-agency residential MBS		34		_				34		42
Total MBS		563		10,813				11,376		577
Total long-term investments	\$	676	\$	16,082	\$	110	\$	16,868	\$	689

COMPOSITION OF I	ONG-TERM INVESTMENT PORTFOLIO
COMINENTION OF L	

		Bala	nce Shee	t Classificatio	on		Total Lor	ıg-Term			
	Held-	to-Maturity	Availa	ble-for-Sale	1	Frading	Invest	nents	Held-to-Maturi		
December 31, 2020	(at car	rying value)	(at f	air value)	(at fair value)		) (at carrying value)		(at fair value		
Debentures											
U.S. government-guaranteed obligations	\$	4	\$	441	\$	113	\$	558	\$	4	
GSE obligations		_		5,032		—		5,032			
State housing agency obligations		110		—		—		110		110	
Other		_		46				46			
Total debentures		114		5,519		113		5,746		114	
Mortgage-backed securities portfolio											
GSE residential MBS		740		—		—		740		744	
GSE commercial MBS		—		11,269		—		11,269		_	
Non-agency residential MBS		43		_				43		51	
Total MBS		783		11,269		_		12,052		795	
Total long-term investments	\$	897	\$	16,788	\$	113	\$	17,798	\$	909	

The Bank did not acquire or sell any long-term investments during the nine months ended September 30, 2021. During the nine months ended September 30, 2021, proceeds from maturities, prepayments and paydowns of held-to-maturity securities and available-for-sale securities totaled approximately \$223 million and \$219 million, respectively. Three GSE commercial MBS totaling \$56 million were prepaid during the three and nine months ended September 30, 2021. In connection with these prepayments, the Bank received yield maintenance fees totaling \$5.5 million. The yield maintenance fees are recorded in interest income on available-for-sale securities, net of unamortized purchase premiums or discounts and hedge basis adjustments on the prepaid securities. The net amounts were not significant.

The Bank is precluded by regulation from purchasing additional MBS if such purchase would cause the aggregate amortized historical cost of its MBS holdings to exceed 300 percent of the Bank's total regulatory capital (the sum of its capital stock, mandatorily redeemable capital stock and retained earnings). However, the Bank is not required to sell any mortgage securities that it purchased at a time when it was in compliance with this ratio. For purposes of applying this limit, the Finance Agency defines "amortized historical cost" as the sum of the initial investment, less the amount of cash collected that reduces principal, less write-downs plus yield accreted to date. This definition excludes hedge basis adjustments which, for investment securities, are included in the U.S. GAAP definition of amortized cost basis. Under this definition, the Bank's MBS holdings totaled \$10.6 billion as of September 30, 2021, which represented 289 percent of its total regulatory capital at that date. The Bank has not

purchased any MBS since September 2019 and it does not intend to purchase additional MBS until such time that it has achieved, and is reasonably confident that it can maintain, a CMA ratio of 70 percent.

In addition to MBS, the Bank is also permitted under applicable policies and regulations to purchase certain other types of highly rated, long-term, non-MBS investments subject to certain limits. These investments include but are not limited to the non-MBS debt obligations of other GSEs. The Bank has not purchased any long-term, non-MBS investments since October 2019 and it does not intend to purchase additional long-term, non-MBS investments until such time that it has achieved, and is reasonably confident that it can maintain, a CMA ratio of 70 percent.

As further discussed in the section entitled "LIBOR Phase-Out" beginning on page 61 of this report, the Bank is no longer permitted to, among other things, purchase LIBOR-indexed investments which mature after December 31, 2021 or enter into financial liabilities or derivatives that reference LIBOR and which mature after December 31, 2021. As a result of this limitation, the Bank's consideration of future fixed-rate MBS and/or non-MBS purchases will take into account its ability to prudently mitigate interest rate risk through the use of consolidated obligations or derivatives that are indexed to an interest rate other than LIBOR (e.g., SOFR).

The Bank evaluates all outstanding available-for-sale securities in an unrealized loss position and all outstanding held-tomaturity securities as of the end of each calendar quarter to determine whether an allowance is needed to reserve for expected credit losses on the securities. As of September 30, 2021, the Bank determined that an allowance for credit losses was not necessary on any of its held-to-maturity or available-for-sale securities. For a summary of the Bank's evaluation, see "Item 1. Financial Statements" (specifically, Note 9 beginning on page 16 of this report).

As of September 30, 2021, the U.S. government and the issuers of the Bank's holdings of GSE debentures and GSE MBS were rated triple-A by Moody's and AA+ by S&P. At that same date, the Bank's holdings of other debentures, which were comprised of securities issued by the Private Export Funding Corporation ("PEFCO"), were rated triple-A by Moody's. The PEFCO debentures are not currently rated by S&P. Further, the Bank's holdings of state housing agency debentures were rated triple-A by Moody's and S&P.

All but one of the Bank's non-agency residential MBS ("RMBS") are rated by Moody's and/or S&P. The following table presents the credit ratings assigned to the Bank's non-agency RMBS holdings as of September 30, 2021. The credit ratings presented in the table represent the lowest rating assigned to the security by Moody's or S&P.

## NON-AGENCY RMBS CREDIT RATINGS

Credit Rating	Number of Securities	Unpaid Principal Balance		Amortized Cost		Carrying Value					
Double-A	1	\$	754	\$	754	\$	754	\$	726	\$	28
Single-A	2		5,610		5,610		5,610		5,518		92
Triple-B	2		1,821		1,821		1,821		1,810		11
Single-B	4		8,841		8,688		7,953		8,220		526
Triple-C	12		28,122		22,208		18,031		25,946		319
Not Rated	1		42		42		42		41		1
Total	22	\$	45,190	\$	39,123	\$	34,211	\$	42,261	\$	977

(dollars in thousands)

At September 30, 2021, the Bank's portfolio of non-agency RMBS was comprised of 3 securities with an aggregate unpaid principal balance of \$4 million that are backed by first lien fixed-rate loans and 19 securities with an aggregate unpaid principal balance of \$41 million that are backed by first lien option adjustable-rate mortgage ("option ARM") loans. In comparison, as of December 31, 2020, the Bank's portfolio of non-agency RMBS was comprised of 3 securities backed by fixed-rate loans that had an aggregate unpaid principal balance of \$6 million and 19 securities backed by option ARM loans that had an aggregate unpaid principal balance of \$6 million.

While substantially all of the Bank's RMBS portfolio is comprised of collateralized mortgage obligations ("CMOs") with variable-rate coupons (\$0.6 billion par value at September 30, 2021) that do not expose it to interest rate risk if interest rates rise moderately, these securities include caps that would limit increases in the variable-rate coupons if short-term interest rates rise above the caps. In addition, if interest rates rise, prepayments on the mortgage loans underlying the securities would likely decline, thus lengthening the time that the securities would remain outstanding with their coupon rates capped. As of September 30, 2021, one-month LIBOR was 0.08 percent and the effective interest rate caps on one-month LIBOR (the interest cap rate minus the stated spread on the coupon) embedded in the CMO floaters ranged from 5.95 percent to 10.46 percent. The largest concentration of embedded effective caps (\$0.4 billion) was between 6.00 percent and 6.50 percent. As of September 30,

2021, one-month LIBOR rates were 587 basis points below the lowest effective interest rate cap embedded in the CMO floaters.

## Mortgage Loans Held For Portfolio

As of September 30, 2021 and December 31, 2020, mortgage loans held for portfolio (net of allowance for credit losses) were \$3.3 billion and \$3.4 billion, respectively, representing approximately 5.5 percent and 5.3 percent, respectively, of the Bank's total assets at those dates. Through the MPF program, the Bank currently invests in only conventional residential mortgage loans originated by its PFIs. During the period from 1998 to mid-2003, the Bank purchased conventional mortgage loans and government-guaranteed/insured mortgage loans (i.e., those insured or guaranteed by the Federal Housing Administration or the Department of Veterans Affairs). The Bank resumed acquiring conventional mortgage loans under this program in early 2016. Approximately \$3.261 billion of the \$3.270 billion (unpaid principal balance) of mortgage loans on the Bank's balance sheet at September 30, 2021 were conventional loans, almost all of which were acquired since 2016. The remaining \$9 million (unpaid principal balance) of the mortgage loans that were acquired during the period from 1998 to mid-2003.

During the three and nine months ended September 30, 2021, the Bank acquired mortgage loans totaling \$403 million (\$394 million unpaid principal balance) and \$951 million (\$931 million unpaid principal balance), respectively. In comparison, the Bank acquired mortgage loans totaling \$154 million (\$148 million unpaid principal balance) and \$746 million (\$721 million unpaid principal balance) during the three and nine months ended September 30, 2020. All of the acquired mortgage loans were originated by certain of the Bank's PFIs and the Bank acquired a 100 percent interest in such loans. The Bank's mortgage loan purchases declined significantly beginning in the second quarter of 2020 as pricing became less attractive in the wake of the Federal Reserve's response to the COVID-19 pandemic. As pricing improved somewhat beginning in the second quarter of 2021, the Bank's mortgage loan purchases increased, albeit not to the levels that existed immediately prior to the onset of the COVID-19 pandemic. With the significant decline in mortgage interest rates since the onset of the COVID-19 pandemic, mortgage prepayment activity accelerated and has remained relatively high. While still elevated, prepayment activity began to slow somewhat during the three months ended September 30, 2021. During the three and nine months ended September 30, 2021, mortgage loan prepayments totaled \$0.2 billion and \$0.9 billion, respectively, compared to \$0.4 billion and \$1.0 billion for the three and nine months ended September 30, 2020.

The Bank manages the liquidity, interest rate and prepayment risk of these loans, while the PFIs or their designees retain the servicing activities. The Bank and the PFIs share in the credit risk of the loans with the Bank assuming a limited first loss obligation defined as the First Loss Account ("FLA"), and the PFIs assuming credit losses in excess of the FLA, up to the amount of the required credit enhancement obligation ("CE Obligation") as specified in the master agreement ("Second Loss Credit Enhancement"). The FLA is a memo account that is used to track the Bank's exposure to losses until the CE Obligation is available to cover losses. The CE Obligation is the amount of credit enhancement needed for a master commitment to have an estimated rating that is equivalent to an investment grade rated MBS. Credit enhancement levels are set by the Bank using an NRSRO model and are currently set at a triple-B equivalent. The Bank assumes all losses in excess of the Second Loss Credit Enhancement.

Under the Finance Agency's Acquired Member Asset regulation (12 C.F.R. part 1268), any portion of the CE Obligation that is a PFI's direct liability must be collateralized by the PFI in the same way that advances are collateralized. Accordingly, the PFI Agreement provides that the PFI's obligations under the PFI Agreement are secured along with other obligations of the PFI under its regular advances agreement with the Bank and, further, that the Bank may request additional collateral to secure the PFI's obligations. PFIs are paid credit enhancement fees ("CE fees") as compensation for retaining a portion of the credit risk on the loans sold to the Bank, as an incentive to minimize credit losses on those loans, to share in the risk of loss on MPF loans and, in limited cases related to loans acquired prior to 2016, to pay for supplemental mortgage insurance, rather than paying a guaranty fee to other secondary market purchasers. CE fees are paid monthly and are determined based on the remaining unpaid principal balance of the MPF loans during the applicable month. CE fees are recorded as a reduction to mortgage loan interest income when paid by the Bank. Mortgage loan interest income was reduced by CE fees totaling \$438,000 and \$572,000 during the three months ended September 30, 2021 and 2020, respectively, and \$1,382,000 and \$1,836,000 during the nine months ended September 30, 2021 and 2020, respectively, and \$1,300 and \$3,925,000 at September 30, 2021 and December 31, 2020, respectively.

For the Bank's conventional loans, loan payment forbearance is offered to borrowers impacted by COVID-19. The forbearance allows a borrower to defer loan payments for 3 months without requiring documentation from the borrower to support the requested relief. Borrowers that continue to be impacted by COVID-19 may request an extension of the loan payment forbearance for up to an additional 15 months. A hardship certification from the borrower supporting the continued hardship due to COVID-19 is required for approval of additional payment forbearance. During forbearance, late fees are not assessed. At the end of forbearance, borrowers are presented with options for bringing their mortgage loan to a current status. For further discussion, see "Item 1. Financial Statements" (specifically, Note 9 beginning on page 16 of this report).

#### **Consolidated Obligations and Deposits**

During the nine months ended September 30, 2021, the Bank's outstanding consolidated obligation bonds (at par value) increased by \$12.3 billion and its outstanding consolidated obligation discount notes (at par value) decreased by \$17.0 billion. The following table presents the composition of the Bank's outstanding bonds at September 30, 2021 and December 31, 2020.

#### COMPOSITION OF CONSOLIDATED OBLIGATION BONDS OUTSTANDING

(par value, dollars in millions)

	Septembe	r 30, 2021	December	31, 2020
	Balance	Percentage of Total	Balance	Percentage of Total
Variable-rate				
SOFR-indexed				
Non-callable	\$ 13,237	26.9 %	\$ 24,130	65.2 %
Callable		—	290	0.8
LIBOR-indexed non-callable		_	1,000	2.7
Fixed-rate				
Callable	17,383	35.2	1,820	5.0
Non-callable	14,602	29.6	9,672	26.1
Step-up				
Callable	4,019	8.2	15	_
Non-callable	 30	0.1	 60	0.2
Total par value	\$ 49,271	100.0 %	\$ 36,987	100.0 %

During the first nine months of 2021, the Bank issued \$42.6 billion of consolidated obligation bonds and approximately \$23.4 billion of consolidated obligation discount notes (excluding those with overnight terms), the proceeds of which were used primarily to replace maturing or called consolidated obligation bonds and maturing discount notes. At September 30, 2021 and December 31, 2020, discount notes comprised approximately 9 percent and 37 percent, respectively, of the Bank's total outstanding consolidated obligations. During the nine months ended September 30, 2021, the Bank's bond issuance (based on trade date and par value) consisted of approximately \$28.1 billion of swapped fixed-rate callable bonds (including step-up bonds), \$15.5 billion of fixed-rate, predominately short-term non-callable bonds (which were not swapped), and \$0.1 billion of SOFR-indexed non-callable bonds.

The weighted average cost of swapped and variable-rate consolidated obligation bonds issued by the Bank approximated LIBOR minus 18 basis points during the three months ended September 30, 2021, compared to LIBOR minus 20 basis points during the three months ended June 30, 2021 and LIBOR minus 11 basis points during the three months ended September 30, 2020. During the nine months ended September 30, 2021, the Bank increased its usage of callable consolidated obligation bonds and short-term, non-callable consolidated obligation bonds as pricing for these funding sources was attractive relative to other consolidated obligation bonds and discount notes.

Demand and term deposits were \$1.8 billion and \$1.6 billion at September 30, 2021 and December 31, 2020, respectively. The size of the Bank's deposit base varies as market factors change, including the attractiveness of the Bank's deposit pricing relative to the rates available to members on alternative money market investments, members' investment preferences with respect to the maturity of their investments, and member liquidity.

## <u>Capital</u>

The Bank's outstanding capital stock (excluding mandatorily redeemable capital stock) was \$2.2 billion and \$2.1 billion at September 30, 2021 and December 31, 2020, respectively. The Bank's average outstanding capital stock (excluding mandatorily redeemable capital stock) was approximately \$2.1 billion and \$2.4 billion for the nine months ended September 30, 2021 and the year ended December 31, 2020, respectively.

Mandatorily redeemable capital stock outstanding at September 30, 2021 and December 31, 2020 was \$6.7 million and \$13.9 million, respectively. Although mandatorily redeemable capital stock is excluded from capital (equity) for financial reporting purposes, it is considered capital for regulatory purposes.

At September 30, 2021 and December 31, 2020, the Bank's five largest shareholders collectively held \$495 million and \$575 million, respectively, of capital stock, which represented 22.9 percent and 27.2 percent, respectively, of the Bank's total outstanding capital stock (including mandatorily redeemable capital stock) as of those dates. The following table presents the Bank's five largest shareholders as of September 30, 2021.

## FIVE LARGEST SHAREHOLDERS AS OF SEPTEMBER 30, 2021

(par value, dollars in thousands)

Name	Par Value of Capital Stock	Percent of Total Par Value of Capital Stock
American General Life Insurance Company	\$ 157,684	7.3 %
Texas Capital Bank, N.A.	106,280	4.9
Security Service Federal Credit Union	84,232	3.9
Life Insurance Company of the Southwest	73,712	3.4
Randolph-Brooks Federal Credit Union	73,475	3.4
	\$ 495,383	22.9 %

As of September 30, 2021, all of the stock held by the five institutions shown in the table above was classified as capital in the statement of condition.

The following table presents outstanding capital stock, by type of institution, as of September 30, 2021 and December 31, 2020.

## CAPITAL STOCK OUTSTANDING BY INSTITUTION TYPE

(par value, dollars in millions)

		Septembe	er 30, 2021	December 31, 2020				
		· Value of ital Stock	Percent of Total Par Value of Capital Stock	 r Value of pital Stock	Percent of Total Par Value of Capital Stock			
Commercial banks	\$	1,089	50 %	\$ 1,328	63 %			
Credit unions		543	25	264	12			
Insurance companies		380	18	361	17			
Savings institutions		142	7	147	7			
Community Development Financial Institutions		1		 1				
Total capital stock classified as capital		2,155	100	2,101	99			
Mandatorily redeemable capital stock	_	7		 14	1			
Total regulatory capital stock	\$	2,162	100 %	\$ 2,115	100 %			

Members are required to maintain an investment in Class B Stock equal to the sum of a membership investment requirement and an activity-based investment requirement. The membership investment requirement is currently 0.04 percent of each member's total assets as of the previous calendar year-end, subject to a minimum of \$1,000 and a maximum of \$7,000,000. Through March 31, 2020, the activity-based investment requirement was 4.1 percent of outstanding advances, except for advances that were funded under the Bank's special reduced stock advances offering that ran from October 21, 2015 through December 31, 2015. The activity-based investment requirement for those advances was (and continues to be) 2.0 percent of the outstanding advances. At September 30, 2021, these advances totaled approximately \$498 million. Class B-1 Stock is used to meet the membership investment requirement.

On February 28, 2020, the Bank announced another Board-authorized reduction in the activity-based stock investment requirement from 4.1 percent to 2.0 percent for up to \$5.0 billion of advances that: (1) were funded during the period from April 1, 2020 through December 31, 2020 and (2) had a maturity of one year or greater. On July 1, 2020, the Bank announced a Board-authorized modification to this special advances offering. As modified, the Bank's activity-based capital stock investment requirement was reduced from 4.1 percent to 2.0 percent for advances that: (1) were funded during the period from August 1, 2020 through December 31, 2020 and (2) had a maturity of 28 days or greater. On December 7, 2020, the Bank announced that its Board of Directors had authorized the Bank to extend the expiration date of the special advances offering from December 31, 2020 to June 30, 2021. On March 17, 2021, the Bank announced another Board-authorized modification and extension to this special advances offering. As modified and extended, the Bank's activity-based capital stock investment

requirement has been reduced from 4.1 percent to 2.0 percent for advances that: (1) are funded during the period from April 19, 2021 through December 31, 2021 and (2) have a maturity of 32 days or greater. For advances that were funded on or prior to April 18, 2021, the reduced activity-based capital stock investment requirement continued to apply to advances that had a maturity of 28 days or greater. Under the special advances offering described in this paragraph, the maximum balance of advances to which the reduced activity-based stock investment requirement can be applied is \$5.0 billion. If, at the time of funding an advance that would otherwise be eligible for the reduced capital stock investment requirement, the then outstanding balance of advances made pursuant to this offering totals \$5 billion, then the standard capital stock investment requirement of 4.1 percent will apply. Except as described in this paragraph, the standard activity-based stock investment requirement of 4.1 percent continues to apply to all other advances that are funded during the period from April 1, 2020 through December 31, 2021. At September 30, 2021, advances outstanding under this program totaled approximately \$3.1 billion.

On April 19, 2021, the Bank implemented an amendment to its Capital Plan. The amended Capital Plan provides for the imposition of an activity-based investment requirement ranging from 0.10 percent to 2.0 percent of members' outstanding letters of credit (the "LC Percentage"), as specified from time to time by the Bank's Board of Directors. The Board of Directors has established an LC Percentage of 0.10 percent which applies only to letters of credit that are issued or renewed on and after April 19, 2021. The LC Percentage is applied to the issued amount of the letter of credit rather than, if applicable, the amount of the letter of credit that is used from time to time during the term of the letter of credit. Further, renewals for this purpose include amendments that extend the expiration date of the letter of credit.

Quarterly, the Bank typically repurchases a portion of members' excess capital stock. Excess capital stock is defined as the amount of stock held by a member (or former member) in excess of that institution's minimum investment requirement. The portion of members' excess capital stock subject to repurchase is known as surplus stock. For the repurchases that occurred during the nine months ended September 30, 2021, surplus stock was defined as the amount of stock held by a shareholder in excess of 125 percent of the shareholder's minimum investment requirement. For those repurchases, which occurred on March 29, 2021, June 25, 2021 and September 27, 2021 a shareholder's surplus stock was not repurchased if: (1) the amount of that shareholder's surplus stock was \$2,000,000 or less; (2) the shareholder elected to opt-out of the repurchase; or (3) the shareholder was on restricted collateral status (subject to certain exceptions). On March 29, 2021, June 25, 2021 and September 27, 2021 as to certain exceptions). On March 29, 2021, June 25, 2021 and September 27, 2021, the shareholder elected to opt-out of the repurchase; or (3) the shareholder was on restricted collateral status (subject to certain exceptions). On March 29, 2021, June 25, 2021 and September 27, 2021, the Bank repurchased surplus stock totaling \$56.9 million, \$35.8 million and \$12.6 million, respectively, none of which was classified as mandatorily redeemable capital stock at that date.

On March 29, 2021, June 25, 2021 and September 27, 2021, the Bank also repurchased all excess stock held by non-member shareholders as of those dates. This excess stock, all of which was classified as mandatorily redeemable capital stock at those dates, totaled \$7.0 million, \$1,000 and \$1,000, respectively.

At September 30, 2021, the Bank's excess stock totaled \$784.1 million, which represented 1.3 percent of the Bank's total assets as of that date.

During the nine months ended September 30, 2021, the Bank's retained earnings increased by \$107 million, from \$1.408 billion to \$1.515 billion. During this same period, the Bank paid dividends on capital stock totaling \$10.6 million, which represented a weighted average annualized dividend rate of 0.67 percent. These dividends were paid in the form of capital stock with any fractional shares paid in cash. The Bank's first quarter dividends on Class B-1 Stock and Class B-2 Stock were paid at annualized rates of 0.15 percent (a rate equal to average one-month LIBOR for the fourth guarter of 2020) and 1.15 percent (a rate equal to average one-month LIBOR for the fourth quarter of 2020 plus 1.0 percent), respectively. The first quarter dividends, which were applied to average Class B-1 Stock and average Class B-2 Stock held during the period from October 1, 2020 through December 31, 2020, were paid on March 30, 2021. The Bank's second quarter dividends on Class B-1 Stock and Class B-2 Stock were paid at annualized rates of 0.12 percent (a rate equal to average one-month LIBOR for the first quarter of 2021) and 1.12 percent (a rate equal to average one-month LIBOR for the first quarter of 2021 plus 1.0 percent), respectively. The second quarter dividends, which were applied to average Class B-1 Stock and average Class B-2 Stock held during the period from January 1, 2021 through March 31, 2021, were paid on June 28, 2021. The Bank's third quarter dividends on Class B-1 Stock and Class B-2 Stock were paid at annualized rates of 0.10 percent (a rate equal to average one-month LIBOR for the second quarter of 2021) and 1.10 percent (a rate equal to average one-month LIBOR for the second quarter of 2021 plus 1.0 percent), respectively. The third quarter dividends, which were applied to average Class B-1 Stock and average Class B-2 Stock held during the period from April 1, 2021 through June 30, 2021, were paid on September 28, 2021.

The Bank is precluded from paying dividends in the form of capital stock if excess stock held by its shareholders is greater than 1 percent of the Bank's total assets or if, after the issuance of such shares, excess stock held by its shareholders would be greater than 1 percent of the Bank's total assets. Before and immediately after the payment of the dividends on September 28, 2021, excess stock was below 1 percent of the Bank's total assets. Excess stock increased significantly on September 30, 2021 due to the repayment of \$6.8 billion of advances on that date, which correspondingly reduced the activity-based investment requirement that had been associated with those advances. On October 1, 2021, much of this excess stock was used to support new borrowings which, in turn, reduced the Bank's excess stock balance to an amount below 1 percent of the Bank's total assets as of that date.

While there can be no assurances about future dividends or future dividend rates, the target for quarterly dividends on Class B-1 Stock is currently an annualized rate that approximates average one-month LIBOR for the preceding quarter. The target range for quarterly dividends on Class B-2 Stock is currently an annualized rate that approximates average one-month LIBOR for the preceding quarter plus 0.5-1.0 percent.

The Bank is required to maintain at all times permanent capital in an amount at least equal to its risk-based capital requirement, which is the sum of its credit risk capital requirement, its market risk capital requirement, and its operations risk capital requirement, as further described in the 2020 10-K. Permanent capital is defined under the Finance Agency's rules as retained earnings and amounts paid in for Class B stock (which for the Bank includes both Class B-1 Stock and Class B-2 Stock), regardless of its classification as equity or liabilities for financial reporting purposes. At September 30, 2021, the Bank's total risk-based capital requirement was \$721 million, comprised of credit risk, market risk and operations risk capital requirements of \$212 million, \$343 million and \$166 million, respectively, and its permanent capital was \$3.676 billion.

In addition to the risk-based capital requirement, the Bank is subject to three other capital requirements. First, the Bank must, at all times, maintain a minimum total capital-to-assets ratio of 4.0 percent. For this purpose, total capital is defined by Finance Agency rules and regulations as the Bank's permanent capital and the amount of any general allowance for losses (i.e., those reserves that are not held against specific assets). Second, the Bank is required to maintain at all times a minimum leverage capital-to-assets ratio in an amount at least equal to 5.0 percent of its total assets. In applying this requirement to the Bank, leverage capital includes the Bank's permanent capital multiplied by a factor of 1.5 plus the amount of any general allowance for losses. The Bank did not have any general allowance for losses at September 30, 2021 or December 31, 2020. Under the regulatory definitions, total capital stock-to-assets ratio of at least 2.0 percent, as measured on a daily average basis at each month end. At all times during the nine months ended September 30, 2021, the Bank was in compliance with all of its regulatory capital requirements. At September 30, 2021, the Bank's total capital-to-assets ratios were 6.11 percent and 9.16 percent, respectively. The Bank's capital stock-to-assets ratio was 3.73 percent for the month ended September 30, 2021 and December 31, 2020, see "Item 1. Financial Statements" (specifically, Note 14 on page 32 of this report).

## **Derivatives and Hedging Activities**

The Bank enters into interest rate swap, swaption, cap and floor agreements (collectively, interest rate exchange agreements) to manage its exposure to changes in interest rates and/or to adjust the effective maturity, repricing index and/or frequency or option characteristics of financial instruments. This use of derivatives is integral to the Bank's financial management strategy, and the impact of these interest rate exchange agreements permeates the Bank's financial statements. For additional discussion, see "Item 1. Financial Statements" (specifically, Note 13 beginning on page 24 of this report).

The following table provides the notional balances of the Bank's derivative instruments, by balance sheet category and accounting designation, as of September 30, 2021 and December 31, 2020.

## COMPOSITION OF DERIVATIVES BY BALANCE SHEET CATEGORY AND ACCOUNTING DESIGNATION

(in millions)

	Fair Value Hedges						
		Shortcut Method		Long-Haul Method	Cash Flow Hedges	 Economic Hedges	Total
September 30, 2021							
Advances	\$	9,698	\$	651	\$ 	\$ 255	\$ 10,604
Investments				14,971		3	14,974
Mortgage loans held for portfolio		_				934	934
Consolidated obligation bonds		_		23,014	_	_	23,014
Consolidated obligation discount notes					1,066		1,066
Intermediary positions		_				172	172
Other						1,425	1,425
Total notional balance	\$	9,698	\$	38,636	\$ 1,066	\$ 2,789	\$ 52,189
December 31, 2020							
Advances	\$	12,294	\$	747	\$ 	\$ 380	\$ 13,421
Investments		_		15,191		1,403	16,594
Mortgage loans held for portfolio		_				1,620	1,620
Consolidated obligation bonds		_		4,643			4,643
Consolidated obligation discount notes		_			1,066		1,066
Intermediary positions						206	206
Other						1,425	 1,425
Total notional balance	\$	12,294	\$	20,581	\$ 1,066	\$ 5,034	\$ 38,975

As a result of statutory and regulatory requirements emanating from the Dodd-Frank Wall Street Reform and Consumer Protection Act (the "Dodd-Frank Act"), certain derivative transactions that the Bank enters into are required to be cleared through a third-party central clearinghouse. As of September 30, 2021, the Bank had cleared trades outstanding with notional amounts totaling \$22.7 billion. Cleared trades are subject to initial and variation margin requirements established by the clearinghouse and its clearing members. Collateral (or variation margin on daily settled derivative contracts) is typically delivered/paid (or returned/received) daily and, unlike bilateral derivatives, is not subject to any maximum unsecured credit exposure thresholds. The fair values of all interest rate derivatives (including accrued interest receivables and payables) with each clearing member of each clearinghouse are offset for purposes of measuring credit exposure and determining initial and variation margin requirements. With cleared transactions, the Bank is exposed to credit risk in the event that the clearinghouse or the clearing member fails to meet its obligations to the Bank. The Bank has determined that the exercise by a non-defaulting party of the setoff rights incorporated in its cleared derivative transactions should be upheld in the event of a default, including a bankruptcy, insolvency or similar proceeding involving the clearinghouse or any of its clearing members or both.

The Bank has transacted some of its interest rate exchange agreements bilaterally with large financial institutions (with which it has in place master agreements). In doing so, the Bank has generally exchanged a defined market risk for the risk that the counterparty will not be able to fulfill its obligations in the future. The Bank manages this credit risk by spreading its transactions among as many highly rated counterparties as is practicable, by entering into master agreements with each of its non-member bilateral counterparties that include maximum unsecured credit exposure thresholds ranging from \$50,000 to \$500,000, and by monitoring its exposure to each counterparty on a daily basis. In addition, all of the Bank's master agreements with its bilateral counterparties include netting arrangements whereby the fair values of all interest rate derivatives (including accrued interest receivables and payables) with each counterparty are offset for purposes of measuring credit exposure. As of September 30, 2021, the notional balance of outstanding interest rate exchange agreements transacted with non-member bilateral counterparties totaled \$29.3 billion.

Under the Bank's master agreements with its non-member bilateral counterparties, the unsecured credit exposure thresholds must be met before collateral is required to be delivered by one party to the other party. Once the counterparties agree to the

valuations of the interest rate exchange agreements, and if it is determined that the unsecured credit exposure exceeds the threshold, then, upon a request made by the unsecured counterparty, the party that has the unsecured obligation to the counterparty bearing the risk of the unsecured credit exposure generally must deliver sufficient collateral (or return a sufficient amount of previously remitted collateral) to reduce the unsecured credit exposure to zero (or, in the case of pledged securities, to an amount equal to the discount applied to the securities under the terms of the master agreement). Collateral is delivered (or returned) daily when these thresholds are met. The master agreements with the Bank's non-member bilateral counterparties require the delivery of collateral consisting of cash or very liquid, highly rated securities (generally consisting of U.S. government-guaranteed or agency debt securities) if credit risk exposures rise above the thresholds.

The notional amount of interest rate exchange agreements does not reflect the Bank's credit risk exposure, which is much less than the notional amount. The Bank's net credit risk exposure is based on the current estimated cost, on a present value basis, of replacing at current market rates all interest rate exchange agreements with individual counterparties, if those counterparties were to default, after taking into account the value of any cash and/or securities collateral held or remitted by the Bank. For counterparties with which the Bank is in a net gain position, the Bank has credit exposure when the collateral it is holding (if any) has a value less than the amount of the gain. For counterparties with which the Bank is in a net loss position, the Bank has credit exposure when it has delivered collateral with a value greater than the amount of the loss position.

The following table provides information regarding the Bank's derivative counterparty credit exposure as of September 30, 2021.

## DERIVATIVES COUNTERPARTY CREDIT EXPOSURE

(dollars in millions)

Credit Rating <sup>(1)</sup>	Number of Bilateral Counterparties	Notional Principal <sup>(2)</sup>	Net Derivatives Fair Value Before Collateral	Cash Collateral Pledged To (From) Counterparty	Other Collateral Pledged To Counterparty	Net Credit Exposure
Non-member counterparties						
Asset positions with credit exposure						
Single-A	2	\$ 1,505.0	\$ 8.4	\$ (6.0)	\$	\$ 2.4
Cleared derivatives <sup>(3)</sup>		15.0	—	—	1.0	1.0
Liability positions with credit exposure						
Single-A	3	762.4	(14.4)	15.9	_	1.5
Triple-B	1	387.6	(7.5)	7.8		0.3
Cleared derivatives <sup>(3)</sup>	_	22,683.3	(11.5)		578.5	567.0
Total derivative positions with non- member counterparties to which the Bank had credit exposure	6	25,353.3	(25.0)	17.7	579.5	572.2
Asset positions without credit exposure	1	54.0	0.4	(0.6)		_
Liability positions without credit exposure <sup>(4)</sup>	10	26,627.5	(363.6)	343.1		
Total derivative positions with non- member counterparties to which the Bank did not have credit exposure	11	26,681.5	(363.2)	342.5		_
Total non-member counterparties	17	52,034.8	(388.2)	\$ 360.2	\$ 579.5	\$ 572.2
Member institutions						
Interest rate exchange agreements <sup>(5)</sup>						
Asset positions	4	45.9	4.7			
Liability positions	1	40.0	_			
Mortgage delivery commitments		68.5	(0.4)			
Total member institutions	5	154.4	4.3			
Total	22	\$ 52,189.2	\$ (383.9)			

<sup>(1)</sup> Credit ratings shown in the table reflect the lowest rating from Moody's or S&P and are as of September 30, 2021.

<sup>(2)</sup> Includes amounts that had not settled as of September 30, 2021.

(3) Cleared derivatives with an aggregate notional principal balance of \$5.5 billion were transacted with a clearinghouse rated double-A and cleared derivatives with an aggregate notional principal balance of \$17.2 billion were transacted with a clearinghouse rated single-A.

<sup>(5)</sup> This product offering and the collateral provisions associated therewith are discussed in the paragraph below.

 <sup>(4)</sup> The figures for liability positions without credit exposure included transactions with a counterparty that is affiliated with a member of the Bank. Transactions with that counterparty had an aggregate notional principal of \$2.3 billion.
(5) This product official and the collectoral provisions accepted therewith an discussed in the percentage helew.

The Bank offers interest rate swaps, caps and floors to its members to assist them in meeting their risk management objectives. In derivative transactions with its members, the Bank acts as an intermediary by entering into an interest rate exchange agreement with the member and then entering into an offsetting interest rate exchange agreement with one of the Bank's non-member derivative counterparties discussed above. When entering into interest rate exchange agreements with its members, the Bank requires the member to post eligible collateral in an amount equal to the sum of the net market value of the member's derivative transactions with the Bank (if the value is positive to the Bank) plus a percentage of the notional amount of any interest rate swaps, with market values determined on at least a monthly basis. Eligible collateral for derivative transactions consists of collateral that is eligible to secure advances and other obligations under the member's Advances and Security Agreement with the Bank.

The Dodd-Frank Act changed the regulatory framework for derivative transactions that are not subject to mandatory clearing requirements (uncleared trades). While the Bank expects to be able in certain instances to continue to enter into uncleared trades on a bilateral basis, those transactions will be subject to new regulatory requirements, including (if certain thresholds are met) minimum initial margin requirements imposed by regulators. For additional discussion, see the section entitled "Legislative and Regulatory Developments" in Item 1. Business in the 2020 10-K.

## LIBOR Phase-Out

In July 2017, the United Kingdom's Financial Conduct Authority ("FCA") announced that it intended to stop persuading or compelling banks to voluntarily submit LIBOR rates after 2021, and that the FCA would support the LIBOR indices through 2021 to allow for an orderly transition to an alternative reference rate (or rates). On March 5, 2021, the FCA announced the dates that panel bank submissions for all LIBOR settings will cease, after which representative LIBOR rates will no longer be available. While the FCA confirmed that many LIBOR settings will either cease to be provided by any administrator or no longer be representative immediately after December 31, 2021, one-month and three-month U.S. dollar LIBOR, the settings that apply to the Bank's LIBOR-indexed financial instruments, will either cease to be provided by any administrator or no longer be representative immediately after June 30, 2023. Although the FCA does not expect one-month and three-month U.S. dollar LIBOR to become unrepresentative before June 30, 2023 and it intends to consult on requiring the administrator of LIBOR to continue publishing one-month and three-month U.S. dollar LIBOR on a non-representative, synthetic basis for a period after June 30, 2023, there is no assurance that these LIBOR rates will continue to be published or be representative through any particular date.

For some time, the Bank has been preparing for this possibility and the associated transition to an alternative reference rate (e.g., SOFR). Among other things, a permanent discontinuation of LIBOR has necessitated the addition of fallback language in the Bank's LIBOR-indexed derivative contracts that extend past the cessation date, as well as changes in the Bank's risk management practices. In response to the probable future cessation of LIBOR, the Bank is no longer offering LIBOR-indexed advances, nor is it issuing LIBOR-indexed consolidated obligations.

On September 27, 2019, the Finance Agency issued a supervisory letter to the FHLBanks relating to their preparations for the phase-out of LIBOR. Under the supervisory letter, with limited exceptions, the FHLBanks were directed, by December 31, 2019, to no longer purchase LIBOR-indexed investments which mature after December 31, 2021 and, by March 31, 2020, to no longer issue, make, purchase or otherwise enter into financial liabilities, derivatives or other assets that reference LIBOR and which mature after December 31, 2021. In light of the market volatility that was caused by the COVID-19 pandemic, the Finance Agency (on March 16, 2020) extended the date after which the FHLBanks could no longer issue, make, purchase or otherwise enter into financial liabilities, derivatives or other assets that reference LIBOR and which mature after December 31, 2020, except for option-embedded products. This directive did not in any way modify the previous guidance relating to investments. The Bank has complied with all aspects of this guidance.

On October 23, 2020, ISDA launched the IBOR Fallbacks Supplement ("Supplement") and the IBOR Fallbacks Protocol ("Protocol"). The Supplement amends ISDA's standard definitions for interest rate derivatives to incorporate robust fallbacks for derivatives linked to certain interbank offered rates ("IBORs"). Both the Supplement and the Protocol took effect on January 25, 2021. On that date, all legacy bilateral derivative transactions subject to Protocol-covered agreements (including ISDA agreements) that incorporate certain covered ISDA definitional booklets and reference a covered IBOR, including LIBOR, were amended to apply the new ISDA-recommended IBOR fallbacks in the event of the relevant IBOR's cessation. Both parties must adhere to the Protocol in order to effectively amend legacy derivative contracts or, alternatively, the parties must bilaterally agree to amended legacy contracts to address IBOR fallbacks. The Bank and all of its non-member bilateral derivative counterparties have adhered to the Protocol. On and after January 25, 2021, all new derivative contracts will be subject to the relevant IBOR fallbacks set forth in the Supplement. ISDA has stated that the FCA's announcement on March 5, 2021 constitutes an index cessation event under the Supplement and the Protocol and, as a result, the fallback spread adjustment published by Bloomberg was fixed as of the date of that announcement for all LIBOR settings.

The following table presents the Bank's LIBOR-indexed financial instruments by contractual maturity at September 30, 2021. Some of the Bank's derivatives contain call options which, if exercised, could result in earlier terminations. In addition, it is possible that some of the Bank's MBS holdings could be prepaid, reducing the balance of these investments maturing after June 30, 2023.

## LIBOR-INDEXED FINANCIAL INSTRUMENTS

(par/notional value, in millions)

	Three M Endo December	ed	Year Ended ember 31, 2022	x Months Ended e 30, 2023	Th	nereafter	Total
Instruments with receipts indexed to LIBOR							
Advances (par value)	\$	150	\$ 	\$ —	\$	—	\$ 150
Investments (par value)							
Non-MBS		_	1	_		37	38
MBS		_	_	_		576	576
LIBOR-indexed derivatives notional amount (receive leg)							
Cleared		114	1,436	487		16,960	18,997
Uncleared		207	 377	 44		7,863	 8,491
Total par/notional amount	\$	471	\$ 1,814	\$ 531	\$	25,436	\$ 28,252
Instruments with payments indexed to LIBOR							
LIBOR-indexed derivatives notional amount (pay leg)							
Cleared	\$	360	\$ 1,283	\$ 488	\$	1,387	\$ 3,518
Uncleared		200	 133	 21		542	 896
Total par/notional amount	\$	560	\$ 1,416	\$ 509	\$	1,929	\$ 4,414

At September 30, 2021, the Bank had outstanding standby bond purchase agreements totaling \$939.9 million which expire in 2022, 2023, 2024, 2025 and 2026. Under the terms of these agreements, the Bank could be required to purchase and hold the subject bonds for a period of time. If this were to occur, the Bank would earn interest on the bonds at specified rates indexed to the greater of one-month LIBOR or the Federal Funds rate. The standby bond purchase agreements that expire after June 30, 2023 include fallback language in the event one-month LIBOR is no longer available after that date. For further discussion of these standby bond purchase agreements, see "Item 1. Financial Statements" (specifically, Note 17 on page 37 of this report).

## **Results of Operations**

## <u>Net Income</u>

Net income for the three months ended September 30, 2021 and 2020 was \$41.3 million and \$47.7 million, respectively. The Bank's net income for the three months ended September 30, 2021 represented an annualized return on average capital stock ("ROCS") of 7.45 percent. In comparison, the Bank's ROCS was 8.36 percent for the three months ended September 30, 2020. Net income for the nine months ended September 30, 2021 and 2020 was \$117.2 million and \$166.2 million, respectively. The Bank's net income for the nine months ended September 30, 2021 represented an annualized ROCS of 7.44 percent. In comparison, the Bank's ROCS was 8.82 percent for the nine months ended September 30, 2021 represented an annualized ROCS of 7.44 percent. In comparison, the Bank's ROCS was 8.82 percent for the nine months ended September 30, 2021 represented an annualized ROCS of 7.44 percent. In comparison, the Bank's ROCS was 8.82 percent for the nine months ended September 30, 2021 represented an annualized ROCS of 7.44 percent. In comparison, the Bank's ROCS was 8.82 percent for the nine months ended September 30, 2020. To derive the Bank's ROCS, net income is divided by average capital stock outstanding excluding stock that is classified as mandatorily redeemable capital stock. The factors contributing to the changes in the Bank's net income are discussed below.

#### Income Before Assessments

During the three months ended September 30, 2021 and 2020, the Bank's income before assessments was \$45.8 million and \$53.0 million, respectively. As discussed in more detail below, the \$7.2 million decrease in income before assessments from period to period was attributable to a \$12.2 million decrease in net interest income after provision for mortgage loan losses and a \$0.3 million increase in other expense, partially offset by a \$5.3 million favorable change in other income (loss).

During the nine months ended September 30, 2021 and 2020, the Bank's income before assessments was \$130.2 million and \$184.7 million, respectively. As discussed in more detail below, the \$54.5 million decrease in income before assessments from period to period was attributable to a \$36.6 million decrease in net interest income after provision for mortgage loan losses and a \$23.4 million decrease in other income, partially offset by \$5.5 million decrease in other expense.

The components of income before assessments (net interest income, other income/loss and other expense) are discussed in more detail in the following sections.

#### Net Interest Income After Provision for Mortgage Loan Losses

For the three months ended September 30, 2021, the Bank's net interest income (after provision for mortgage loan losses) was \$67.3 million compared to \$79.5 million for the comparable period in 2020. The \$12.2 million decrease in net interest income for the three months ended September 30, 2021, as compared to the corresponding period in 2020, was due largely to a decrease in the average balances of the Bank's interest-earning assets, as well as a \$6.4 million decrease in advance prepayment fees from period to period. The Bank's average balance of interest-earning assets decreased from \$67.9 billion during the three months ended September 30, 2020 to \$59.0 billion during the comparable period in 2021.

For the nine months ended September 30, 2021, the Bank's net interest income (after provision for mortgage loan losses) was \$198.5 million compared to \$235.1 million for the comparable period in 2020. The \$36.6 million decrease in net interest income for the nine months ended September 30, 2021, as compared to the corresponding period in 2020, was due largely to a decrease in the average balances of the Bank's interest-earning assets from \$75.2 billion during the nine months ended September 30, 2020 to \$59.1 billion during the comparable period in 2021, as well as a \$9.7 million decrease in advance prepayment fees from period to period. Net interest income was positively impacted by a \$45.5 million favorable change in fair value hedge ineffectiveness from period to period (which, as further discussed below, is largely offset by mitigation activities undertaken by the Bank, the results of which are recorded in other income/loss).

For the three months ended September 30, 2021 and 2020, the Bank's net interest margin was 46 basis points and 48 basis points, respectively. The Bank's net interest margin was 45 basis points and 42 basis points for the nine months ended September 30, 2021 and 2020, respectively. Net interest margin, or net interest income as a percentage of average earning assets, is a function of net interest spread and the rates of return on assets funded by the investment of the Bank's capital. Net interest spread is the difference between the yield on interest-earning assets and the cost of interest-bearing liabilities. The Bank's net interest spread was 45 basis points for both the three months ended September 30, 2021 and 2020, and 44 basis points and 37 basis points for the nine months ended September 30, 2021 and 2020, respectively. The Bank's net interest margin and net interest spread are impacted positively or negatively, as the case may be, by the amount of fair value hedge ineffectiveness recorded in net interest income.

U.S. GAAP requires that, for fair value hedges, the entire change in the fair value of the hedging instrument included in the assessment of hedge effectiveness along with the changes in the fair value of the hedged item attributable to the hedged risk be presented in the same income statement line that is used to present the earnings effect of the hedged item. For the three months ended September 30, 2021 and 2020, the fair value hedge ineffectiveness amounts reported in net interest income increased interest income on advances by \$218,000 and \$475,000, respectively, increased interest income on available-for-sale securities by \$3,089,000 and \$2,159,000, respectively, and reduced interest expense on consolidated obligations by \$5,626,000 and \$1,995,000, respectively. In aggregate, these amounts increased net interest income by \$8,933,000 and \$4,629,000 for the three months ended September 30, 2021 and 2020, respectively. For the nine months ended September 30, 2021 and 2020, respectively. For the nine months ended September 30, 2021 and 2020, respectively. For the nine months ended September 30, 2021 and 2020, respectively, increased (reduced) interest income on advances by \$573,000 and \$(1,211,000), respectively, increased (reduced) interest income on available-for-sale securities by \$17,905,000 and \$(26,530,000), respectively, and reduced interest expense on consolidated obligations by \$4,162,000 and \$4,903,000, respectively. In aggregate, these amounts increased (reduced) net interest income by \$22,640,000 and \$(22,838,000) for the nine months ended September 30, 2021 and 2020, respectively.

The higher yielding, longer duration fixed-rate GSE commercial MBS ("CMBS") and GSE debentures held in the Bank's available-for-sale securities portfolio (all of which have been hedged with fixed-for-floating interest rate swaps in long-haul hedging relationships) expose the Bank to periodic earnings variability in the form of fair value hedge ineffectiveness. The hedge ineffectiveness gains and losses associated with these particular relationships are attributable in large part to the use of different discount curves to value the interest rate swaps (either the overnight index swap curve or the SOFR curve) and the GSE CMBS/GSE debentures (LIBOR plus a constant spread). Notwithstanding the hedge ineffectiveness gains and losses, these hedging relationships have been, and are expected to continue to be, highly effective in achieving offsetting changes in fair values attributable to the hedged risk. While the ineffectiveness-related gains and losses associated with these hedging relationships can be significant when evaluated in the context of the Bank's net income, they are relatively small when expressed as a percentage of the values of the positions. Because the Bank intends to hold these interest rate swaps to maturity, the unrealized ineffectiveness-related gains (or losses) associated with its holdings of GSE CMBS and GSE debentures are, in the absence of CMBS prepayments, expected to be transitory, meaning that they will reverse in future periods in the form of ineffectiveness-related losses (or gains).

The contribution of earnings from the Bank's invested capital to the net interest margin (the impact of non-interest bearing funds) declined from 3 basis points and 5 basis points during the three and nine months ended September 30, 2020, respectively, to 1 basis point during both the three and nine months ended September 30, 2021. The decrease in the impact of non-interest bearing funds for the three and nine months ended September 30, 2021, as compared to the corresponding periods in 2020, is primarily due to the decrease in short-term interest rates between the periods.

The following table presents average balance sheet amounts together with the total dollar amounts of interest income and expense and the weighted average interest rates of major earning asset categories and the funding sources for those earning assets for the three months ended September 30, 2021 and 2020.

## YIELD AND SPREAD ANALYSIS

(dollars in millions)

		l	For the Th	ree Mo	onths	En	ded Sept	ember	r 30,	
			2021					20	)20	
	verage	]	Interest Income/ Expense	Aver Rate			verage Salance	Inc	erest ome/ oense	Average Rate <sup>(1)</sup>
Assets										
Interest-bearing deposits (2)	\$ 1,096	\$	—	0.1	1 %	\$	2,159	\$	1	0.16 %
Securities purchased under agreements to resell	449		—	0.0	)5 %		794		—	0.10 %
Federal funds sold	3,751		1	0.0	9 %		2,294		—	0.09 %
Investments										
Trading	1,311		1	0.2	27 %		5,229		10	0.76 %
Available-for-sale <sup>(3)</sup>	16,035		33	0.8	32 %		17,556		39	0.90 %
Held-to-maturity <sup>(3)</sup>	716		1	0.7	0 %		1,053		2	0.75 %
Advances <sup>(4)</sup>	32,327		30	0.3	7 %		34,953		56	0.65 %
Mortgage loans held for portfolio <sup>(5)</sup>	 3,275		21	2.4	8 %		3,864		22	2.23 %
Total earning assets	58,960		87	0.5	59 %		67,902		130	0.77 %
Cash and due from banks	90						56			
Other assets	185						238			
Derivatives netting adjustment <sup>(2)</sup>	(375)						(665)			
Fair value adjustment on available-for-sale securities (3)	284						(9)			
Adjustment for net non-credit portion of other-than-temporary impairments on held-to-maturity securities <sup>(3)</sup>	 (5)						(7)			
Total assets	\$ 59,139		87	0.5	<u>9 %</u>	\$	67,515		130	0.78 %
Liabilities and Capital										
Interest-bearing deposits <sup>(2)</sup>	\$ 1,735		—	0.0	)3 %	\$	1,539		—	0.03 %
Consolidated obligations										
Bonds	45,607		13	0.1	1 %		33,510		32	0.39 %
Discount notes	7,702		7	0.3	3 %		28,641		18	0.25 %
Mandatorily redeemable capital stock and other borrowings	 7			0.2	27 %		63			0.19 %
Total interest-bearing liabilities	55,051		20	0.1	4 %		63,753		50	0.32 %
Other liabilities	572						939			
Derivatives netting adjustment <sup>(2)</sup>	 (375)						(665)			
Total liabilities	55,248		20	0.1	4 %		64,027		50	0.32 %
Total capital	 3,891						3,488			
Total liabilities and capital	\$ 59,139			0.1	3 %	\$	67,515			0.30 %
Net interest income		\$	67					\$	80	
Net interest margin				0.4	6 %					0.48 %
Net interest spread				0.4	5 %					0.45 %
Impact of non-interest bearing funds				0.0	01 %					0.03 %

- <sup>(1)</sup> Percentages are annualized figures. Amounts used to calculate average rates are based on whole dollars. Accordingly, recalculations based upon the disclosed amounts (millions) may not produce the same results.
- (2) The Bank offsets the fair value amounts recognized for the right to reclaim cash collateral or the obligation to return cash collateral against the fair value amounts recognized for derivative instruments transacted under a master netting agreement or other similar arrangement. The average balances of interest-bearing deposit assets for the three months ended September 30, 2021 and 2020 in the table above include \$366 million and \$640 million, respectively, which are classified as derivative assets/liabilities on the statements of condition. In addition, the average balances of interest-bearing deposit liabilities for the three months ended September 30, 2021 and 2020 and 2020 in the table above include \$9 million and \$25 million, respectively, which are classified as derivative assets/liabilities on the statements of the table above include \$9 million and \$25 million, respectively, which are classified as derivative assets/liabilities on the statements of condition.
- <sup>(3)</sup> Average balances for available-for-sale and held-to-maturity securities are calculated based upon amortized cost.
- <sup>(4)</sup> Interest income and average rates include net prepayment fees on advances.
- <sup>(5)</sup> The average balances for mortgage loans held for portfolio in the table above include \$75 million and \$72 million of non-accruing loans for the three months ended September 30, 2021 and 2020, respectively.

The following table presents average balance sheet amounts together with the total dollar amounts of interest income and expense and the weighted average interest rates of major earning asset categories and the funding sources for those earning assets for the nine months ended September 30, 2021 and 2020.

## YIELD AND SPREAD ANALYSIS

(dollars in millions)

	For the Nine Months Ended September 30,							
	2021 2020							
	Average Balance	Interest Income/ Expense	Average Rate <sup>(1)</sup>	Average Balance	Interest Income/ Expense	Average Rate <sup>(1)</sup>		
Assets								
Interest-bearing deposits <sup>(2)</sup>	\$ 1,045	\$ 1	0.11 %	\$ 2,243	\$ 9	0.50 %		
Securities purchased under agreements to resell	215		0.06 %	1,200	7	0.86 %		
Federal funds sold	3,525	2	0.08 %	3,446	8	0.32 %		
Investments								
Trading	3,497	8	0.30 %	6,709	56	1.11 %		
Available-for-sale <sup>(3)</sup>	16,156	108	0.89 %	17,391	179	1.38 %		
Held-to-maturity <sup>(3)</sup>	789	4	0.70 %	1,124	11	1.35 %		
Advances <sup>(4)</sup>	30,640	95	0.41 %	38,980	324	1.11 %		
Mortgage loans held for portfolio <sup>(5)</sup>	3,254	57	2.32 %	4,073	84	2.74 %		
Total earning assets	59,121	275	0.62 %	75,166	678	1.20 %		
Cash and due from banks	175			65				
Other assets	201			270				
Derivatives netting adjustment <sup>(2)</sup>	(412)			(556)				
Fair value adjustment on available-for-sale securities (3)	286			7				
Adjustment for net non-credit portion of other-than-temporary impairments on held-to-maturity securities <sup>(3)</sup>	(6)			(8)				
Total assets	\$ 59,365	275	0.62 %	\$ 74,944	678	1.21 %		
Liabilities and Capital								
Interest-bearing deposits <sup>(2)</sup>	\$ 1,781	—	0.02 %	\$ 1,509	4	0.38 %		
Consolidated obligations								
Bonds	41,200	54	0.18 %	35,401	250	0.94 %		
Discount notes	12,296	23	0.25 %	33,979	187	0.74 %		
Mandatorily redeemable capital stock and other borrowings	25		0.04 %	26		0.37 %		
Total interest-bearing liabilities	55,302	77	0.18 %	70,915	441	0.83 %		
Other liabilities	704			869				
Derivatives netting adjustment <sup>(2)</sup>	(412)			(556)				
Total liabilities	55,594	77	0.18 %	71,228	441	0.83 %		
Total capital	3,771	-		3,716				
Total liabilities and capital	\$ 59,365	-	0.17 %	\$ 74,944		0.79 %		
Net interest income		\$ 198			\$ 237			
Net interest margin			0.45 %			0.42 %		
Net interest spread			0.44 %			0.37 %		
Impact of non-interest bearing funds			0.01 %			0.05 %		

- <sup>(1)</sup> Percentages are annualized figures. Amounts used to calculate average rates are based on whole dollars. Accordingly, recalculations based upon the disclosed amounts (millions) may not produce the same results.
- (2) The Bank offsets the fair value amounts recognized for the right to reclaim cash collateral or the obligation to return cash collateral against the fair value amounts recognized for derivative instruments transacted under a master netting agreement or other similar arrangement. The average balances of interest-bearing deposit assets for the nine months ended September 30, 2021 and 2020 in the table above include \$400 million and \$534 million, respectively, which are classified as derivative assets/liabilities on the statements of condition. In addition, the average balances of interest-bearing deposit liabilities for the nine months ended September 30, 2021 and 2020 and 2020 in the table above include \$11 million and \$22 million, respectively, which are classified as derivative assets/liabilities on the statements of statements of condition.
- <sup>(3)</sup> Average balances for available-for-sale and held-to-maturity securities are calculated based upon amortized cost.
- <sup>(4)</sup> Interest income and average rates include net prepayment fees on advances.
- <sup>(5)</sup> The average balances for mortgage loans held for portfolio in the table above include \$95 million and \$29 million of non-accruing loans for the nine months ended September 30, 2021 and 2020, respectively.

Changes in both volume (i.e., average balances) and interest rates influence changes in net interest income and net interest margin. The following table summarizes changes in interest income and interest expense between the three and nine-month periods ended September 30, 2021 and 2020. Changes in interest income and interest expense that cannot be attributed to either volume or rate have been allocated to the volume and rate categories based upon the proportion of the absolute value of the volume and rate changes.

RATE AND VOLUME ANALYSIS
(in millions)

	For the Three Months Ended September 30, 2021 vs. 2020						For the Nine Months Ended September 30, 2021 vs. 2020						
	Volu	ıme		Rate	]	Fotal	Volum	e	]	Rate		Total	
Interest income													
Interest-bearing deposits	\$	(1)	\$		\$	(1)	\$	(3)	\$	(5)	\$	(8)	
Securities purchased under agreements to resell						_		(3)		(4)		(7)	
Federal funds sold		1				1				(6)		(6)	
Investments													
Trading		(5)		(4)		(9)	(	19)		(29)		(48)	
Available-for-sale		(3)		(3)		(6)	(	12)		(59)		(71)	
Held-to-maturity		(1)				(1)		(2)		(5)		(7)	
Advances		(4)		(22)		(26)	(	58)		(171)		(229)	
Mortgage loans held for portfolio		(3)		2		(1)	(	15)		(12)		(27)	
Total interest income		(16)		(27)		(43)	(1	12)		(291)		(403)	
Interest expense													
Interest-bearing deposits						—		1		(5)		(4)	
Consolidated obligations													
Bonds		9		(28)		(19)		35		(231)		(196)	
Discount notes		(15)		4		(11)	(	81)		(83)		(164)	
Mandatorily redeemable capital stock and other borrowings													
Total interest expense		(6)		(24)		(30)	(	45)		(319)		(364)	
Changes in net interest income	\$	(10)	\$	(3)	\$	(13)	\$ (	67)	\$	28	\$	(39)	

## Other Income (Loss)

The following table presents the various components of other income (loss) for the three and nine months ended September 30, 2021 and 2020.

## **OTHER INCOME (LOSS)**

(in thousands)

	Three Months Ended September 30,				Nine Months Ended September 30,		
	2021		2020		2021		2020
Net interest income (expense) associated with:							
Member/offsetting derivatives	\$ 11	\$	12	\$	34	\$	68
Economic hedge derivatives related to advances	(149)		(596)		(441)		778
Economic hedge derivatives related to trading securities	—		(5,979)		(3,520)		(20,478)
Economic hedge derivatives related to available-for-sale securities	(9)		(9)		(27)		(17)
Economic hedge derivatives related to consolidated obligation bonds	219		_		555		_
Economic hedge derivatives related to consolidated obligation discount notes	—				—		(39)
Economic hedge derivatives related to mortgage loans held for portfolio	120		64		1,482		(416)
Other stand-alone economic hedge derivatives	 1,869		1,642		5,490		2,553
Total net interest income (expense) associated with economic hedge derivatives	2,061		(4,866)		3,573		(17,551)
Gains (losses) related to economic hedge derivatives							
Interest rate swaps							
Advances	989		1,885		4,355		(9,998)
Available-for-sale securities	25		18		123		(234)
Trading securities	—		6,402		3,532		(6,395)
Mortgage loans held for portfolio	120		906		3,990		(8,423)
Consolidated obligation bonds	45		—		—		—
Consolidated obligation discount notes	—		—		_		24
Other stand-alone economic hedge derivatives	(2,936)		(1,828)		(16,334)		34,572
Interest rate swaptions related to mortgage loans held for portfolio	347		(3,978)		3,498		2,578
Mortgage delivery commitments	(204)		1,772		(2,083)		8,066
Member/offsetting swaps and caps	(9)		(12)		(34)		(42)
Total fair value gains (losses) related to economic hedge derivatives	 (1,623)		5,165		(2,953)		20,148
Price alignment amount on daily settled derivative contracts	 _		13				35
Total net gains on derivatives and hedging activities	 438		312		620		2,632
Net gains (losses) on trading securities	(871)		(7,152)		(7,777)		13,973
Net gains (losses) on other assets carried at fair value	(56)		583		1,153		302
Gains on sales of available-for-sale securities	—		773		—		773
Service fees	749		631		2,032		1,785
Letter of credit fees	3,545		3,621		10,849		10,945
Standby bond purchase agreement fees	480		370		1,426		1,103
Other, net	 315		154		377		539
Total other	 4,162		(1,020)		8,060		29,420
Total other income (loss)	\$ 4,600	\$	(708)	\$	8,680	\$	32,052

## Net Interest Settlements

Net interest income (expense) associated with economic hedge derivatives including, but not limited to, those associated with non-qualifying fair value hedging relationships is recorded in net gains (losses) on derivatives and hedging activities. Net interest income (expense) associated with derivatives in qualifying fair value hedging relationships is recorded in net interest income in the same income statement line that is used to present the earnings effect of the hedged item.

## Fair Value Hedge Ineffectiveness

The Bank uses interest rate swaps to hedge the risk of changes in the fair value of some of its advances and consolidated obligation bonds and, through September 30, 2021, all of its available-for-sale securities. These hedging relationships are designated as fair value hedges. To the extent these relationships qualify for hedge accounting, changes in the fair values of

both the derivative (the interest rate swap) and the hedged item (limited to changes attributable to the hedged risk) are recorded in net interest income in the same income statement line that is used to present the earnings effect of the hedged item. To the extent that the Bank's fair value hedging relationships do not qualify for hedge accounting, or cease to qualify because they are determined to be ineffective, only the change in fair value of the derivative is recorded in earnings as net gains (losses) on derivatives and hedging activities (in this case, there is no offsetting change in fair value of the hedged item). The net gains (losses) on derivatives associated with specific advances, available-for-sale securities and consolidated obligation bonds that did not qualify for hedge accounting, or ceased to qualify because they were determined to be ineffective, totaled \$1,059,000 and \$1,903,000 for the three months ended September 30, 2021 and 2020, respectively, and \$4,478,000 and \$(10,232,000) for the nine months ended September 30, 2021 and 2020, respectively.

#### Economic Hedge Derivatives

Notwithstanding the transitory nature of the ineffectiveness-related gains and losses associated with the Bank's available-forsale securities portfolio (discussed above), the Bank has entered into several derivative transactions in an effort to mitigate a portion of the periodic earnings variability that can result from those fair value hedging relationships. At both September 30, 2021 and December 31, 2020, the notional balance of these derivatives totaled \$425 million. For the three months ended September 30, 2021 and 2020, the losses associated with these stand-alone economic hedge derivatives were \$2.9 million and \$1.8 million, respectively. For the nine months ended September 30, 2021 and 2020, the gains (losses) associated with these stand-alone economic hedge derivatives were \$(16.3) million and \$34.6 million, respectively.

The Bank has invested in residential mortgage loans. A portion of the interest rate and prepayment risk associated with the Bank's mortgage loan portfolio is managed through the use of interest rate swaps and swaptions. The net change in the fair values of these interest rate swaps and swaptions were gains (losses) of \$0.5 million and \$(3.1) million for the three months ended September 30, 2021 and 2020, respectively, and \$7.5 million and \$(5.8) million for the nine months ended September 30, 2021 and 2020, respectively, and \$7.5 million and \$(5.8) million for the nine months ended September 30, 2021 and 2020, respectively. In addition, in some but not all cases, the Bank enters into delivery commitments associated with the purchase of the mortgage loans. The fair value changes associated with mortgage delivery commitments (representing net unrealized gains/losses from the commitment date to the settlement date) were \$(0.2) million and \$1.8 million for the three months ended September 30, 2021 and 2020, respectively, and \$(2.1) million and \$8.1 million for the nine months ended September 30, 2021 and 2020, respectively.

As discussed previously in the section entitled "Financial Condition — Derivatives and Hedging Activities," the Bank offers interest rate swaps, caps and floors to its members to assist them in meeting their risk management objectives. In derivative transactions with its members, the Bank acts as an intermediary by entering into an interest rate exchange agreement with the member and then entering into an offsetting interest rate exchange agreement with one of the Bank's non-member derivative counterparties. The net change in the fair values of derivatives transacted with members and the offsetting derivatives was \$(9,000) and \$(12,000) for the three months ended September 30, 2021 and 2020, respectively, and \$(34,000) and \$(42,000) for the nine months ended September 30, 2021 and 2020, respectively.

#### Price Alignment Amount

Pursuant to their rulebooks, the Bank's two clearinghouse counterparties legally characterize variation margin payments on cleared derivatives as settlements on the contracts. The Bank receives or pays a price alignment amount on the cumulative variation margin payments associated with these contracts. The price alignment amount approximates the amount of interest the Bank would receive or pay if the variation margin payments were characterized as collateral pledged to secure outstanding credit exposure on the derivative contracts. The price alignment amount associated with derivatives in qualifying fair value hedging relationships is recorded in net interest income in the same income statement line that is used to present the earnings effect of the hedged item. The price alignment amount associated with economic hedge derivatives including, but not limited to, those associated with non-qualifying fair value hedging relationships, is recorded in net gains (losses) on derivatives and hedging activities.

#### Other

During the three and nine months ended September 30, 2020, the Bank sold approximately \$486 million (par value) of GSE debentures classified as available-for-sale securities. The aggregate gains realized on these sales totaled \$0.8 million. There were no sales of long-term investments during the nine months ended September 30, 2021.

During the nine months ended September 30, 2021 and 2020, the Bank held U.S. Treasury Bills and U.S. Treasury Notes, all of which were classified as trading securities. Due to fluctuations in interest rates, the aggregate gains (losses) on these investments were \$(0.9) million and \$(7.1) million for the three months ended September 30, 2021 and 2020, respectively, and \$(7.8) million and \$14.0 million for the nine months ended September 30, 2021 and 2020, respectively. The Bank occasionally hedges the risk of changes in the fair value of some of the U.S. Treasury Notes held in its short-term liquidity portfolio. No derivatives were used to hedge trading securities during the three months ended September 30, 2021. For the three months ended September 30, 2021, respectively.

The gains (losses) associated with these stand-alone derivatives were \$3.5 million and \$(6.4) million for the nine months ended September 30, 2021 and 2020, respectively.

The Bank has a small balance of marketable equity securities consisting solely of mutual fund investments associated with its non-qualified deferred compensation plans. These securities are carried at fair value and included in other assets on the statements of condition. The fair value gains (losses) on these securities totaled \$(0.1) million and \$0.6 million for the three months ended September 30, 2021 and 2020, respectively, and \$1.1 million and \$0.3 million for the nine months ended September 30, 2021 and 2020, respectively. The gains (losses) on the securities are offset by a corresponding increase (decrease) in amounts owed to participants in the deferred compensation plans, the expense (or credit) for which is recorded in compensation and benefits expense (in the case of employees) or other operating expenses (in the case of directors).

Letter of credit fees totaled \$3.5 million and \$10.8 million for the three and nine months ended September 30, 2021, respectively, compared to \$3.6 million and \$10.9 million for the corresponding periods in 2020. At September 30, 2021 and 2020, outstanding letters of credit totaled \$21.1 billion and \$21.8 billion, respectively.

Standby bond purchase agreement fees totaled \$0.5 million and \$1.4 million for the three and nine months ended September 30, 2021, respectively, compared to \$0.4 million and \$1.1 million for the corresponding periods in 2020. At September 30, 2021 and 2020, outstanding standby bond purchase agreements totaled \$940 million and \$725 million, respectively.

## **Other Expense**

Total other expense includes the Bank's compensation and benefits; other operating expenses; subsidies, grants and donations; derivative clearing fees; and its proportionate share of the costs of operating the Finance Agency and the Office of Finance. For the three and nine months ended September 30, 2021, these expenses totaled \$26.0 million and \$77.0 million, respectively, compared to \$25.7 million and \$82.5 million, respectively, for the corresponding periods in 2020.

Compensation and benefits were \$12.9 million and \$40.2 million for the three and nine months ended September 30, 2021, respectively, compared to \$13.4 million and \$38.6 million, respectively, for the corresponding periods in 2020. The changes in compensation and benefits for the three and nine months ended September 30, 2021, as compared to the corresponding periods in 2020, were due largely to changes in amounts due to employees under the Bank's non-qualified deferred compensation plans. These expenses were \$0.5 million lower and \$0.7 million higher for the three and nine months ended September 30, 2021, respectively, as compared to the corresponding periods in 2020, due to changes in the fair value of the assets associated with those plans. In addition, compensation and benefits increased during the nine months ended September 30, 2021, as compared to the corresponding period in 2020 due to higher medical costs and the impact of cost of living and merit adjustments, which were partially offset by lower vacation and employee separation costs. The Bank's average headcount was 203 and 201 employees for the nine months ended September 30, 2021, and 2020, respectively. At September 30, 2021, the Bank employed 200 people, a decrease of 3 employees from December 31, 2020.

Other operating expenses for the three and nine months ended September 30, 2021 were \$8.5 million and \$25.8 million, respectively, compared to \$8.5 million and \$27.4 million, respectively, for the corresponding periods in 2020. The decrease in other operating expenses for the nine months ended September 30, 2021, as compared to the corresponding period in 2020, resulted primarily from lower professional fees, independent contractor costs and transaction services fees associated with the Bank's mortgage loan program, partially offset by an increase in software costs. The decrease in transaction service fees was due to lower mortgage loan balances. These fees are paid to the FHLBank of Chicago as compensation for administering the MPF Program.

Subsidies, grants and donations were \$1.3 million and \$1.6 million for the three and nine months ended September 30, 2021, respectively, compared to \$1.1 million and \$8.3 million, respectively, for the corresponding periods in 2020. In response to the COVID-19 pandemic, the Bank made available (during the three months ended June 30, 2020) \$5.0 billion of below-market rate (or subsidized) advances at a cost to the Bank of \$4.4 million. Further, during the nine months ended September 30, 2020, the Bank made \$0.9 million in charitable contributions primarily to various food banks throughout the Bank's district and it funded \$2.3 million in grants under its Partnership Grant Program, which was expanded to address pandemic relief efforts. During the three months ended September 30, 2021, the Bank donated approximately \$0.8 million to various food banks and relief organizations in response to Hurricane Ida.

Derivative clearing fees were \$0.2 million and \$0.3 million for the three months ended September 30, 2021 and 2020, respectively. Derivative clearing fees were \$0.8 million and \$1.0 million for the nine months ended September 30, 2021 and 2020, respectively.

The Bank, together with the other FHLBanks, is assessed for the costs of operating the Office of Finance and a portion of the costs of operating the Finance Agency. The Bank's allocated share of these expenses totaled approximately \$3.0 million and \$8.7 million for the three and nine months ended September 30, 2021, respectively, as compared to \$2.3 million and \$7.2 million, respectively, for the corresponding periods in 2020.

## AHP Assessments

While the Bank is exempt from all federal, state and local income taxes, it is obligated to set aside amounts for its Affordable Housing Program ("AHP").

As required by statute, each year the Bank contributes 10 percent of its earnings (as adjusted for interest expense on mandatorily redeemable capital stock) to its AHP. The AHP provides grants that members can use to support affordable housing projects in their communities. Generally, the Bank's AHP assessment is derived by adding interest expense on mandatorily redeemable capital stock to income before assessments; the result of this calculation is then multiplied by 10 percent. The Bank's AHP assessments totaled \$4.6 million and \$5.3 million for the three months ended September 30, 2021 and 2020, respectively, and \$13.0 million and \$18.5 million for the nine months ended September 30, 2021 and 2020, respectively.

## **Critical Accounting Policies and Estimates**

A discussion of the Bank's critical accounting policies and the extent to which management uses judgment and estimates in applying those policies is provided in the 2020 10-K. There were no substantive changes to the Bank's critical accounting policies, or the extent to which management uses judgment and estimates in applying those policies, during the nine months ended September 30, 2021.

## Liquidity and Capital Resources

In order to meet members' credit needs and the Bank's financial obligations, the Bank maintains a portfolio of money market instruments typically consisting of overnight federal funds, overnight reverse repurchase agreements, overnight interest-bearing deposits, U.S. Treasury Bills and U.S. Treasury Notes. Beyond those amounts that are required to meet members' credit needs and its own obligations, the Bank typically holds additional balances of short-term investments that fluctuate as the Bank invests the proceeds of debt issued to replace maturing and called liabilities, as the balance of deposits changes, and as the level of liquidity needed to satisfy Finance Agency requirements changes. At September 30, 2021, the Bank's short-term liquidity holdings were comprised of a \$10.8 billion overnight reverse repurchase agreement with the Federal Reserve, \$3.1 billion of overnight federal funds sold, \$0.8 billion of overnight interest-bearing deposits, a \$0.1 billion U.S. Treasury Note and \$0.2 billion of excess cash held at the Federal Reserve.

The Bank's primary source of funds is the proceeds it receives from the issuance of consolidated obligation bonds and discount notes in the capital markets. Historically, the FHLBanks have issued debt throughout the business day in the form of discount notes and bonds with a wide variety of maturities and structures. Generally, the Bank has access to the capital markets as needed during the business day to acquire funds to meet its needs.

In addition to the liquidity provided from the proceeds of the issuance of consolidated obligations, the Bank also maintains access to wholesale funding sources such as federal funds purchased and securities sold under agreements to repurchase (e.g., borrowings secured by its investments in U.S. Treasury securities, MBS and/or agency debentures). Furthermore, the Bank has access to borrowings (typically short-term) from the other FHLBanks.

The 11 FHLBanks and the Office of Finance are parties to the Federal Home Loan Banks P&I Funding and Contingency Plan Agreement, as amended and restated effective January 1, 2017 (the "Contingency Agreement"). The Contingency Agreement and related procedures are designed to facilitate the timely funding of principal and interest payments on FHLBank System consolidated obligations in the event that a FHLBank is not able to meet its funding obligations in a timely manner. The Contingency Agreement and related procedures provide for the issuance of overnight consolidated obligations ("Plan COs") directly to one or more FHLBanks that provide funds to avoid a shortfall in the timely payment of principal and interest on any consolidated obligations for which another FHLBank is the primary obligor. The direct placement by a FHLBank of consolidated obligations with another FHLBank is permitted only in those instances when direct placement of consolidated obligations is necessary to ensure that sufficient funds are available to timely pay all principal and interest on FHLBank System consolidated obligations due on a particular day. Through the date of this report, no Plan COs have ever been issued pursuant to the terms of the Contingency Agreement.

On occasion, and as an alternative to issuing new debt, the Bank may assume the outstanding consolidated obligations for which other FHLBanks are the original primary obligors. This occurs in cases where the original primary obligor may have participated in a large consolidated obligation issue to an extent that exceeded its immediate funding needs in order to facilitate better market execution for the issue. The original primary obligor might then warehouse the funds until they were needed, or make the funds available to other FHLBanks. Transfers may also occur when the original primary obligor's funding needs change, and that FHLBank offers to transfer debt that is no longer needed to other FHLBanks. Transferred debt is typically fixed-rate, fixed-term, non-callable debt, and may be in the form of discount notes or bonds. The Bank participates in such transfers of funding from other FHLBanks when the transfer represents favorable pricing relative to a new issue of consolidated obligations with similar features. The Bank did not assume any consolidated obligations from other FHLBanks during the nine months ended September 30, 2021 or 2020.

The Finance Agency's expectations with respect to the maintenance of sufficient liquidity to enable the FHLBanks to provide advances and fund letters of credit during a sustained capital markets disruption are set forth in an Advisory Bulletin and accompanying supervisory letter. More specifically, the Advisory Bulletin (hereinafter referred to as the "Liquidity AB") sets forth the Finance Agency's expectations with respect to base case liquidity and funding gaps, among other things. The Liquidity AB sets forth ranges for the prescribed base case liquidity and funding gap measures and the supervisory letter identified the initial thresholds within those ranges that the Finance Agency believed were appropriate in light of then existing market conditions.

With respect to base case liquidity, the Bank is required to maintain a positive cash balance during a prescribed period of time ranging from 10 to 30 calendar days assuming no access to the market for consolidated obligations or other unsecured funding sources and the renewal of all advances that are scheduled to mature during the measurement period. The supervisory letter sets forth the cash flow assumptions to be used by the FHLBanks which include, among other things, a reserve for potential draws on standby letters of credit and the inclusion of uncommitted/unencumbered U.S. Treasury securities with a remaining maturity no greater than 10 years which are classified as trading or available-for-sale securities as a cash inflow one business day after measurement.

Funding gaps measure the difference between a FHLBank's assets and liabilities that are scheduled to mature during a specified period, expressed as a percentage of the FHLBank's total assets. Depending on conditions in the financial markets, the Finance Agency believes (as stated in the Liquidity AB) that the FHLBanks should operate so as not to exceed a funding gap ratio between negative 10 percent and negative 20 percent for a three-month time horizon and between negative 25 percent and negative 35 percent for a one-year time horizon. These limits are designed to reduce the liquidity risks associated with a mismatch in a FHLBank's asset and liability maturities, including an undue reliance on short-term debt funding, which may increase a FHLBank's debt rollover risk. For purposes of calculating the funding gap ratios, the FHLBanks may include estimates of expected cash inflows, including anticipated prepayments, for mortgage loans and MBS. In addition, uncommitted/ unencumbered U.S. Treasury securities with a remaining maturity no greater than 10 years which are classified as trading securities are treated as maturing assets in the three-month time horizon regardless of maturity.

On and after December 31, 2020, the Finance Agency considers a FHLBank to have adequate reserves of liquid assets if the FHLBank maintains 20 calendar days of positive daily cash balances. Further, the Finance Agency considers a FHLBank to have adequate liquidity to address funding gap risks if, on and after December 31, 2020, the FHLBank's funding gap ratios for the three-month and one-year time horizons do not exceed negative 20 percent and negative 35 percent, respectively. The Bank was in compliance with these liquidity requirements at all times during the nine months ended September 30, 2021.

The Bank's access to the capital markets has never been interrupted to an extent that the Bank's ability to meet its obligations was compromised and the Bank does not currently believe that its ability to issue consolidated obligations will be impeded to that extent in the future. If, however, the Bank were unable to issue consolidated obligations for an extended period of time, the Bank would eventually exhaust the availability of purchased federal funds (including borrowings from other FHLBanks) and repurchase agreements as sources of funds. It is also possible that an event (such as a natural disaster or a pandemic like COVID-19) that might impede the Bank's ability to raise funds by issuing consolidated obligations would also limit the Bank's ability to access the markets for federal funds purchased and/or repurchase agreements.

Under those circumstances, to the extent that the balance of principal and interest that came due on the Bank's debt obligations and the funds needed to pay its operating expenses exceeded the cash inflows from its interest-earning assets and proceeds from maturing assets, and if access to the market for consolidated obligations was not again available, the Bank would seek to access funding under the Contingency Agreement to repay any principal and interest due on its consolidated obligations. However, if the Bank were unable to raise funds by issuing consolidated obligations, it is likely that the other FHLBanks would have similar difficulties issuing debt. If funds were not available under the Contingency Agreement, the Bank's ability to conduct its operations would be compromised even earlier than if this funding source was available.

A summary of the Bank's contractual cash obligations and off-balance-sheet lending-related financial commitments by due date or remaining maturity as of December 31, 2020 is provided in the 2020 10-K. There have been no material changes in the Bank's contractual obligations outside the normal course of business during the nine months ended September 30, 2021.

## **Recently Issued Accounting Guidance**

For a discussion of recently issued accounting guidance, see "Item 1. Financial Statements" (specifically, Note 2 beginning on page 8 of this report).

## ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

The following quantitative and qualitative disclosures about market risk should be read in conjunction with the quantitative and qualitative disclosures about market risk that are included in the 2020 10-K. The information provided in this item is intended to update the disclosures made in the 2020 10-K.

As a financial intermediary, the Bank is subject to interest rate risk. Changes in the level of interest rates, the slope of the interest rate yield curve, and/or the relationships (or spreads) between interest yields for different instruments have an impact on the Bank's estimated market value of equity and its earnings. This risk arises from a variety of instruments that the Bank enters into on a regular basis in the normal course of its business.

The terms of member advances, investment securities, and consolidated obligations may present interest rate risk and/or embedded option risk. As discussed in Management's Discussion and Analysis of Financial Condition and Results of Operations, the Bank makes extensive use of interest rate derivative instruments, primarily interest rate swaps, swaptions and caps, to manage the risk arising from these sources.

The Bank has investments in residential mortgage-related assets, primarily CMOs and MPF mortgage loans, both of which present prepayment risk. This risk arises from the mortgagors' option to prepay their mortgages, making the effective maturities of these mortgage-based assets relatively more sensitive to changes in interest rates and other factors that affect the mortgagors' decisions to repay their mortgages as compared to other long-term investment securities that do not have prepayment features. A decline in interest rates generally accelerates mortgage refinancing activity, thus increasing prepayments and thereby shortening the effective maturity of the mortgage-related assets. Conversely, rising rates generally slow prepayment activity and lengthen a mortgage-related asset's effective maturity.

The Bank has managed the potential prepayment risk embedded in mortgage assets by purchasing securities that maintain their original principal balance for a fixed number of years, by purchasing highly structured tranches of mortgage securities that substantially limit the effects of prepayment risk, by issuing a combination of callable and non-callable debt with varying maturities, and/or by using interest rate derivative instruments to offset prepayment risk specific both to particular securities and to the overall mortgage portfolio.

The Bank's Enterprise Market Risk Management Policy provides a risk management framework for the financial management of the Bank consistent with the strategic principles outlined in its Strategic Business Plan. The Bank develops its funding and hedging strategies to manage its interest rate risk within the risk limits established in its Enterprise Market Risk Management Policy.

The Enterprise Market Risk Management Policy articulates the Bank's tolerance for the amount of overall interest rate risk the Bank will assume by limiting the maximum estimated loss in market value of equity that the Bank would incur under simulated 200 basis point changes in interest rates to 15 percent of the estimated base case market value. As reflected in the table below entitled "Market Value of Equity," the Bank was in compliance with this limit at September 30, 2021, June 30, 2021, March 31, 2021 and December 31, 2020.

As part of its ongoing risk management process, the Bank calculates an estimated market value of equity for a base case interest rate scenario and for interest rate scenarios that reflect parallel interest rate shocks. The base case market value of equity is calculated by determining the estimated fair value of each instrument on the Bank's balance sheet, and subtracting the estimated aggregate fair value of the Bank's liabilities from the estimated aggregate fair value of the Bank's assets. For purposes of these calculations, mandatorily redeemable capital stock is treated as equity rather than as a liability. The fair values of the Bank's financial instruments (both assets and liabilities) are determined using either vendor prices or a pricing model. For those instruments for which a pricing model is used, the calculations are based upon parameters derived from market conditions existing at the time of measurement, and are generally determined by discounting estimated future cash flows at the replacement (or similar) rate for new instruments of the same type with the same or very similar characteristics. The market value of equity calculations include non-financial assets and liabilities, such as premises and equipment, other assets, payables for AHP, and other liabilities at their recorded carrying amounts.

For purposes of compliance with the Bank's Enterprise Market Risk Management Policy limit on estimated losses in market value, market value of equity losses are defined as the estimated net sensitivity of the value of the Bank's equity (the net value of its portfolio of assets, liabilities and interest rate derivatives) to 200 basis point parallel shifts in interest rates.

The following table provides the Bank's estimated base case market value of equity and its estimated market value of equity under up and down 200 basis point interest rate shock scenarios (and, for comparative purposes, its estimated market value of equity under up and down 100 basis point interest rate shock scenarios) as of December 31, 2020, March 31, 2021, June 30, 2021 and September 30, 2021. In addition, the table provides the percentage change in estimated market value of equity under each of these shock scenarios as of those dates.

# MARKET VALUE OF EQUITY

		Up 200 Basis Points <sup>(1)</sup>		Down 200 Basis Points <sup>(2)</sup>		Up 100 Ba	sis Points <sup>(1)</sup>	Down 100 Basis Points <sup>(2)</sup>		
	Base Case Market Value of Equity	Estimated Market Value of Equity	Percentage Change from Base Case							
December 2020	\$ 3.636	\$ 3.623	(0.36)%	\$ 3.998	9.96 %	\$ 3.648	0.33 %	\$ 3.730	2.59 %	
March 2021	3.843	3.678	(4.29)%	4.005	4.22 %	3.770	(1.90)%	3.916	1.90 %	
June 2021	3.884	3.787	(2.50)%	4.094	5.41 %	3.849	(0.90)%	3.875	(0.23)%	
September 2021	3.944	3.830	(2.89)%	4.122	4.51 %	3.899	(1.14)%	3.949	0.13 %	

(dollars in billions)

<sup>(1)</sup> In the up 100 and up 200 scenarios, the estimated market value of equity is calculated under assumed instantaneous +100 and +200 basis point parallel shifts in interest rates.

(2) In the down 100 and down 200 scenarios, the estimated market value of equity is calculated under assumed instantaneous -100 and -200 basis point parallel shifts in interest rates, subject to a floor of 0.01 percent.

The market value of equity figures reflected in the table above were derived in accordance with Finance Agency guidance. The Bank has on its balance sheet long-term, fixed-rate, putable advances that can be terminated by the Bank on specified future dates pursuant to a put option purchased from the member. These advances are hedged with interest rate swaps where the Bank pays a fixed-rate coupon and receives a variable-rate coupon, and sells a call option to the swap counterparty pursuant to which that counterparty can cancel the swap on specified future dates. The call/put option dates mirror each other throughout the life of the instruments. Given the different discount curves that are used to value the putable advances and the associated cancelable interest rate swaps, the modeled results can produce an outcome where the advance and the corresponding interest rate swap are not terminated on the same date. Typically, in practice, if the swap counterparty calls the interest rate swap, the Bank concurrently puts the advance.

The following table provides the Bank's market value of equity figures under the same interest rate shock scenarios after adjusting the model to more closely align the put dates of the advances with the projected call dates of the associated interest rate swaps.

## ADJUSTED MARKET VALUE OF EQUITY

(dollars in billions)

		Up 200 Ba	Up 200 Basis Points <sup>(1)</sup>		Basis Points <sup>(2)</sup>	Up 100 Ba	sis Points <sup>(1)</sup>	Down 100 Basis Points <sup>(2)</sup>		
	Base Case Market Value of Equity	Estimated Market Value of Equity	Percentage Change from Base Case	Estimated Market Value of Equity	Percentage Change from Base Case	Estimated Market Value of Equity	Percentage Change from Base Case	Estimated Market Value of Equity	Percentage Change from Base Case	
December 2020	\$ 3.749	\$ 3.627	(3.25)%	\$ 3.917	4.48 %	\$ 3.685	(1.71)%	\$ 3.892	3.81 %	
March 2021	3.885	3.679	(5.30)%	4.104	5.64 %	3.782	(2.65)%	4.004	3.06 %	
June 2021	3.954	3.788	(4.20)%	4.055	2.55 %	3.868	(2.18)%	4.021	1.69 %	
September 2021	4.019	3.833	(4.63)%	4.155	3.38 %	3.919	(2.49)%	4.111	2.29 %	

<sup>(1)</sup> In the up 100 and up 200 scenarios, the estimated market value of equity is calculated under assumed instantaneous +100 and +200 basis point parallel shifts in interest rates.

<sup>(2)</sup> In the down 100 and down 200 scenarios, the estimated market value of equity is calculated under assumed instantaneous -100 and -200 basis point parallel shifts in interest rates, subject to a floor of 0.01 percent.

A related measure of interest rate risk is duration of equity. Duration is the weighted average maturity (typically measured in months or years) of an instrument's cash flows, weighted by the present value of those cash flows. As such, duration provides an estimate of an instrument's sensitivity to small changes in market interest rates. The duration of assets is generally expressed as a positive figure, while the duration of liabilities is generally expressed as a negative number. The change in value of a specific instrument for given changes in interest rates will generally vary in inverse proportion to the instrument's duration. As

market interest rates decline, instruments with a positive duration are expected to increase in value, while instruments with a negative duration are expected to decrease in value. Conversely, as interest rates rise, instruments with a positive duration are expected to decline in value, while instruments with a negative duration are expected to increase in value.

The values of instruments having relatively longer (or higher) durations are more sensitive to a given interest rate movement than instruments having shorter durations; that is, risk increases as the absolute value of duration lengthens. For instance, the value of an instrument with a duration of three years will theoretically change by three percent for every one percentage point (100 basis point) change in interest rates, while the value of an instrument with a duration of five years will theoretically change by five percent for every one percentage point change in interest rates.

The duration of individual instruments may be easily combined to determine the duration of a portfolio of assets or liabilities by calculating a weighted average duration of the instruments in the portfolio. These combinations provide a single straightforward metric that describes the portfolio's sensitivity to interest rate movements. These additive properties can be applied to the assets and liabilities on the Bank's balance sheet. The difference between the combined durations of the Bank's assets and the combined durations of its liabilities is sometimes referred to as duration gap and provides a measure of the relative interest rate sensitivities of the Bank's assets and liabilities.

Duration gap is a useful measure of interest rate sensitivity but does not account for the effect of leverage, or the effect of the absolute duration of the Bank's assets and liabilities, on the sensitivity of its estimated market value of equity to changes in interest rates. The inclusion of these factors results in a measure of the sensitivity of the value of the Bank's equity to changes in market interest rates referred to as the duration of equity. Duration of equity is the market value weighted duration of assets minus the market value weighted duration of liabilities divided by the market value of equity.

The significance of an entity's duration of equity is that it can be used to describe the sensitivity of the entity's market value of equity to movements in interest rates. A duration of equity equal to zero would mean, within a narrow range of interest rate movements, that the Bank had neutralized the impact of changes in interest rates on the market value of its equity.

A positive duration of equity would mean, within a narrow range of interest rate movements, that for each one year of duration the estimated market value of the Bank's equity would be expected to decline by about 0.01 percent for every positive 0.01 percent change in the level of interest rates. A positive duration generally indicates that the value of the Bank's assets is more sensitive to changes in interest rates than the value of its liabilities (i.e., that the duration of its assets is greater than the duration of its liabilities).

Conversely, a negative duration of equity would mean, within a narrow range of interest rate movements, that for each one year of negative duration the estimated market value of the Bank's equity would be expected to increase by about 0.01 percent for every positive 0.01 percent change in the level of interest rates. A negative duration generally indicates that the value of the Bank's liabilities is more sensitive to changes in interest rates than the value of its assets (i.e., that the duration of its liabilities is greater than the duration of its assets).

The following table provides information regarding the Bank's base case duration of equity as well as its duration of equity in up and down 100 and 200 basis point interest rate shock scenarios as of December 31, 2020, March 31, 2021, June 30, 2021 and September 30, 2021.

## **DURATION ANALYSIS**

(expressed in years)

	<b>Base Case Interest Rates</b>					Durati	on of Equity	
	Asset Duration	Liability Duration	Duration Gap	Duration of Equity	Up 100 <sup>(1)</sup>	Up 200 <sup>(1)</sup>	Down 100 <sup>(2)</sup>	Down 200 <sup>(2)</sup>
December 2020	0.30	(0.34)	(0.04)	(0.42)	0.02	1.41	(5.46)	(5.45)
March 2021	0.44	(0.36)	0.08	1.71	2.31	2.80	(1.43)	(1.01)
June 2021	0.34	(0.32)	0.02	0.56	1.54	1.88	(2.96)	(5.99)
September 2021	0.36	(0.33)	0.03	0.83	1.64	1.87	(1.98)	(4.55)

(1) In the up 100 and up 200 scenarios, the duration of equity is calculated under assumed instantaneous +100 and +200 basis point parallel shifts in interest rates.

(2) In the down 100 and down 200 scenarios, the duration of equity is calculated under assumed instantaneous -100 and -200 basis point parallel shifts in interest rates.

The duration figures reflected in the table above were derived in accordance with Finance Agency guidance. As previously discussed, the Bank has on its balance sheet long-term, fixed-rate, putable advances that can be terminated by the Bank on specified future dates pursuant to a put option purchased from the member. These advances are hedged with interest rate swaps

where the Bank pays a fixed-rate coupon and receives a variable-rate coupon, and sells a call option to the swap counterparty pursuant to which that counterparty can cancel the swap on specified future dates. The call/put option dates mirror each other throughout the life of the instruments. Given the different discount curves that are used to value the putable advances and the associated cancelable interest rate swaps, the modeled results can produce an outcome where the advance and the corresponding interest rate swap are not terminated on the same date. Typically, in practice, if the swap counterparty calls the interest rate swap, the Bank concurrently puts the advance. The following table provides information regarding the Bank's duration of equity under the same interest rate shock scenarios after adjusting the model to more closely align the put dates of the advances with the projected call dates of the associated interest rate swaps.

## ADJUSTED DURATION ANALYSIS

(expressed in years)

		Base Case Ir	terest Rates			Durati	on of Equity	
	Asset Duration	Liability Duration	Duration Gap	Duration of Equity	Up 100 <sup>(1)</sup>	Up 200 <sup>(1)</sup>	Down 100 <sup>(2)</sup>	Down 200 <sup>(2)</sup>
December 2020	0.44	(0.34)	0.10	2.02	1.52	1.87	(2.25)	(2.04)
March 2021	0.51	(0.36)	0.15	2.71	2.81	2.94	0.10	0.78
June 2021	0.46	(0.32)	0.14	2.27	2.37	2.06	(0.59)	(3.21)
September 2021	0.48	(0.33)	0.15	2.63	2.49	2.06	0.51	(1.72)

(1) In the up 100 and up 200 scenarios, the duration of equity is calculated under assumed instantaneous +100 and +200 basis point parallel shifts in interest rates.

(2) In the down 100 and down 200 scenarios, the duration of equity is calculated under assumed instantaneous -100 and -200 basis point parallel shifts in interest rates.

## **ITEM 4. CONTROLS AND PROCEDURES**

#### **Evaluation of Disclosure Controls and Procedures**

The Bank's management, under the supervision and with the participation of its Chief Executive Officer and Chief Financial Officer, conducted an evaluation of the effectiveness of the Bank's disclosure controls and procedures (as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended (the "Exchange Act")) as of the end of the period covered by this report. Based upon that evaluation, the Bank's Chief Executive Officer and Chief Financial Officer concluded that, as of the end of the period covered by this report, the Bank's disclosure controls and procedures were effective in: (1) recording, processing, summarizing and reporting information required to be disclosed by the Bank in the reports that it files or submits under the Exchange Act within the time periods specified in the SEC's rules and forms and (2) ensuring that information required to be disclosed by the Bank in the reports that it files or submits under the Bank's management, including its Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosures.

## **Changes in Internal Control Over Financial Reporting**

There were no changes in the Bank's internal control over financial reporting (as such term is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) during the fiscal quarter ended September 30, 2021 that have materially affected, or are reasonably likely to materially affect, the Bank's internal control over financial reporting.

## PART II. OTHER INFORMATION

ITEM	6.	EXHIBITS
	•••	

31.1	<u>Certification of principal executive officer pursuant to Section 302 of the Sarbanes-Oxley Act</u> of 2002.
31.2	Certification of principal financial officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1	Certification of principal executive officer and principal financial officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
EX-101.INS	XBRL Instance Document - The instance document does not appear in the interactive data file because its XBRL tags are embedded within the inline XBRL document.
EX-101.SCH	Inline XBRL Taxonomy Extension Schema Document.
EX-101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document.
EX-101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document.
EX-101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document.
EX-101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document.
EX-104	The cover page of this Quarterly Report on Form 10-Q, formatted in inline XBRL and contained in Exhibit 101.

## SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

November 12, 2021 Date By /s/ Tom Lewis

Tom Lewis

Executive Vice President and Chief Financial Officer (Principal Financial and Accounting Officer)

## EXHIBIT INDEX

- 31.1 <u>Certification of principal executive officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</u>
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- EX-101.DEF Inline XBRL Taxonomy Extension Definition Linkbase Document.
- EX-104 The cover page of this Quarterly Report on Form 10-Q, formatted in inline XBRL and contained in Exhibit 101.