UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form 10-Q

X	QUARTERLY REPORT PU SECURITIES EXCHANGE	RSUANT TO SEC ACT OF 1934	CTION 13 OR 15(d) OF THE
	For the quarterly period ended Ju	ne 30, 2021	
		or	
	TRANSITION REPORT PU SECURITIES EXCHANGE		CTION 13 OR 15(d) OF THE
	For the transition period from		
		ission File No. 000-51.	
I	FEDERAL HOME L	OAN BANK	COF CINCINNATI
	(Exact name o	f registrant as specified in its	charter)
	Federally chartered corporation of the	United States	31-6000228
	(State or other jurisdiction of incorporation or organization)		(I.R.S. Employer Identification No.)
	600 Atrium Two, P.O. Box 598, Cin	cinnati, OH	45201-0598
	(Address of principal executive offi	ces)	(Zip Code)
		(513) 852-7500	• •
	(Registrant's te	elephone number, including a	rea code)
Securi	ties registered pursuant to Section 12(b) of	the Act: None	
Securities E		12 months (or for suc	required to be filed by Section 13 or 15(d) of the h shorter period that the registrant was required to past 90 days.
	▼ Yes □ No		
submitted pr			nically every Interactive Data File required to be onths (or for such shorter period that the registrant
•	✓ Yes □ No		
smaller repo		mpany. See the definition	ler, an accelerated filer, a non-accelerated filer, a ons of "large accelerated filer," "accelerated filer," to of the Exchange Act.
La	rge accelerated Filer □		
No	on-accelerated Filer 🗵	Smaller reporting	
		Emerging growth	company \square
	complying with any new or revised fina		ant has elected not to use the extended transition dards provided pursuant to Section 13(a) of the
Indica	te by check mark whether the registrant is	a shell company (as def	ined in Rule 12b-2 of the Exchange Act).
	□ Yes ℤ No		- · ·
			age or quoted on any automated quotation system, y at its par value of \$100 per share. As of July 31,

redeemable.

2021, the registrant had 25,385,576 shares of capital stock outstanding, which included stock classified as mandatorily

PART I - FINANCIAL INFORMATION

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PART I – FINANCIAL INFORMATION

Item 1. Financial Statements.

FEDERAL HOME LOAN BANK OF CINCINNATI STATEMENTS OF CONDITION (Unaudited)

(In thousands, except par value)

Cash and due from banks	ASSETS	Ju	ne 30, 2021	Dec	ember 31, 2020
Interest-bearing deposits		\$	135,003	\$	2,984,073
Securities purchased under agreements to resell 436,500 1,818,266 Federal funds sold 6,175,000 4,240,00 Investment securities 9,327,467 10,488,12 Available-for-sale securities (unrotized cost of \$1,931,506 and \$286,869 at June 30, 2021 1,947,871 291,588 Held-to-maturity securities (includes \$05 and \$0 pledged as collateral at June 30, 2021 and December 31, 2020, respectively, that may be repledged) (or per long and per pledged) (or per long and per long and per long and per pledged) (or per long and per long	Interest-bearing deposits				555,104
Federal funds sold					1,818,268
Trading securities	Federal funds sold		6,175,000		4,240,000
Available-for-sale securities (amortized cost of \$1,931,506 and \$286,869 at June 30, 2021 and December 31, 2020, respectively) 9,648,17 291,588 1,947,871 291,588 1,947,587 291,588 291,	Investment securities:				
And December 31, 2020, respectively 1,947,871 291,588 Held-to-maturity securities (includes S0 and \$0 pledged as collateral at June 30, 2021 and December 31, 2020, respectively, that may be repledged) 9,648,177 20,110,357 20,427,882 20,110,357 20,427,882 20,21 and December 31, 2020, respectively) 22,586,541 25,362,000 20,221 and December 31, 2020, respectively 22,388,301 22,362,000 20,221 and December 31, 2020, respectively 21,588	Trading securities		9,327,467		10,488,124
December 31, 2020, respectively, that may be repfedged) 8,835,019 20,481,75 20,427,885 20,210,357 20,427,885 20,210,357 20,427,885 20,210 and December 31, 2020, respectively) 23,586,541 25,362,00 20,221 and December 31, 2020, respectively 20,221 and December 31, 20			1,947,871		291,587
Advances (includes \$26,066 and \$27,202 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 23,586,541 25,362,00 Mortgage loans held for portfolio, net of allowance for credit losses of \$248 and \$248 at June 30, 2021 and December 31, 2020, respectively 7,716,841 9,548,50 Accrued interest receivable 96,727 113,70 Derivative assets 216,216 215,88 Other assets, net 24,787 30,81 TOTAL ASSETS \$ 1,336,420 \$ 1,327,20 Deposits \$ 1,336,420 \$ 1,327,20 Consolidated Obligations: \$ 1,368,811 27,500,24 Bonds (includes \$2,296,887 and \$0 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 21,180,119 27,500,24 Bonds (includes \$2,296,883 and \$2,262,388 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 31,678,112 31,996,31 Total Consolidated Obligations \$ 2,888,231 \$ 5,496,55 Accrued interest payable \$ 10,724 110,77 Accrued interest payable \$ 6,7258 77,52 Affordable Housing Program payable 101,724 110,77 Total Liabilities	Held-to-maturity securities (includes \$0 and \$0 pledged as collateral at June 30, 2021 and December 31, 2020, respectively, that may be repledged) (a)		8,835,019		9,648,171
2021 and December 31, 2020, respectively) 23,886,541 25,360,00 Mortgage loans held for portfolio, net of allowance for credit losses of \$248 and \$248 at June 30, 2021 and December 31, 2020, respectively 7,716,841 9,548,500 Accrued interest receivable 96,727 113,70 Derivative assets 24,787 30,815 Other assets, net 24,787 30,815 TOTAL ASSETS \$5,8872,119 \$65,296,232 ILBILITIES Tossidated Obligations: Tossidated Obligations: Discount Notes (includes \$2,866,877 and \$0 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 21,180,119 27,500,24 Bonds (includes \$2,295,683 and \$2,262,338 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 31,678,112 31,996,31 Total Consolidated Obligations \$2,888,231 59,496,55 Mandatorily redeemable capital stock 101,724 110,772 Affordable Housing Program payable 67,258 77,52 Affordable Housing Program payable 479,408 331,00 Other liabilities 2,389 3,817 Capital stock Class B putable (\$100 par value); issued and outstanding sha	Total investment securities		20,110,357		20,427,882
June 30, 2021 and December 31, 2020, respectively 7,716,841 9,548,500 Accrued interest receivable 96,727 113,70 Derivative assets 216,216 21,588 Other assets, net 24,787 30,814 TOTAL ASSETS \$58,872,119 \$65,296,239 LIABILITIES Topositis \$1,336,420 \$1,327,207 Consolidated Obligations: Topositis \$1,336,420 \$1,327,207 Discount Notes (includes \$2,866,877 and \$0 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) \$21,180,119 \$27,500,24 Bonds (includes \$2,295,683 and \$2,262,388 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) \$31,678,112 \$31,996,31 Total Consolidated Obligations \$2,888,231 \$5,946,55 Mandatorily redeemable capital stock \$13,719 \$19,45 Accrued interest payable \$67,258 \$77,52 Affordable Housing Program payable \$101,724 \$110,772 Derivative liabilities \$2,389 \$3,81 Other liabilities \$4,859,149 \$61,366,32 Commitments and contingencies	Advances (includes \$26,066 and \$27,202 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively)		23,586,541		25,362,003
Derivative assets, net 216,216 218,88 Other assets, net 24,787 30,81-1 TOTAL ASSETS \$ 58,872,119 65,296,237 LIABILITIES Deposits \$ 1,336,40 \$ 1,327,20 Consolidated Obligations: Discount Notes (includes \$2,966,877 and \$0 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 21,180,119 27,500,24 Bonds (includes \$2,296,883 and \$2,26,388 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 31,678,112 31,996,31 Total Consolidated Obligations \$ 2,888,231 \$ 59,496,55 Mandatorily redeemable capital stock \$ 13,719 \$ 19,45 Accrued interest payable 672,58 77,52 Affordable Housing Program payable 101,724 110,77 Derivative liabilities 2,389 3,813 Other liabilities 479,408 331,000 Commitments and contingencies Commitments and contingencies CAPITAL Capital stock Class B putable (\$100 par value); issued and outstanding shares: 27,184 share at Jun	Mortgage loans held for portfolio, net of allowance for credit losses of \$248 and \$248 at June 30, 2021 and December 31, 2020, respectively		7,716,841		9,548,506
Other assets, net 24,787 30,814 TOTAL ASSETS \$ 58,872,110 \$ 65,296,232 ILIMBILITIES \$ 1,336,40 \$ 1,357,200 Deposits \$ 1,336,40 \$ 1,372,200 Consolidated Obligations: \$ 21,180,110 \$ 27,500,244 Bonds (includes \$2,295,683 and \$2,263,888 aftair value under fair value option at June 30, 2021 and December 31, 2020, respectively) \$ 31,678,112 \$ 31,966,31 Total Consolidated Obligations \$ 2,888,231 \$ 5,946,555 Madatorily redeemable capital stock \$ 13,719 \$ 19,455 Accrued interest payable \$ 67,258 \$ 77,22 Affordable Housing Program payable \$ 101,727 \$ 11,077 Other liabilities \$ 2389 \$ 33,000 Other liabilities \$ 2389 \$ 33,000 Total Interest payable \$ 479,408 \$ 33,000 Other liabilities \$ 2,788,401 \$ 33,000 Other liabilities \$ 2,788,401 \$ 33,000 Total Interest (above liabilities) \$ 2,788,401 \$ 2,888,201 Other liabilities \$ 2,788,401 \$ 2,888,201 \$ 2,888,2	Accrued interest receivable		96,727		113,701
TOTAL ASSETS \$ 58,872,119 \$ 65,296,233 LIABILITIES Deposits \$ 1,336,420 \$ 1,327,203 Consolidated Obligations Discount Notes (includes \$2,866,877 and \$0 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 21,180,119 27,500,24 Bonds (includes \$2,295,683 and \$2,262,388 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 31,678,112 31,996,31 Total Consolidated Obligations 52,858,231 59,496,55 Mandatorily redeemable capital stock 13,719 19,45 Accrued interest payable 67,258 77,52 Affordable Housing Program payable 101,724 110,77 Derivative liabilities 2,389 3,81 Other liabilities 479,408 331,00 Total Italiations 54,859,149 61,366,32 CAPITAL Capital stock Class B putable (\$100 par value); issued and outstanding shares: 27,184 shares at June 30, 2021 and 26,409 shares at December 31, 2020 2,718,430 2,640,86 Restricted 791,390 80,271 Res	Derivative assets		216,216		215,888
Deposits	Other assets, net		24,787		30,814
Deposits \$ 1,336,420 \$ 1,327,202 Consolidated Obligations: Discount Notes (includes \$2,866,877 and \$0 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 21,180,119 27,500,244 Bonds (includes \$2,295,683 and \$2,262,388 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 31,678,112 31,996,31 Total Consolidated Obligations 52,858,231 59,496,555 Mandatorily redeemable capital stock 13,719 19,455 Accrued interest payable 67,258 77,52 Affordable Housing Program payable 101,724 110,777 Derivative liabilities 2,389 3,815 Other liabilities 479,408 331,005 Total liabilities 479,408 331,005 Commitments and contingencies 2,718,430 2,640,865 Retained earnings 2,718,430 802,715 Restricted 791,390 802,715 Res	TOTAL ASSETS	\$	58,872,119	\$	65,296,239
Consolidated Obligations: Discount Notes (includes \$2,866,877 and \$0 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 21,180,119 27,500,24 Bonds (includes \$2,295,683 and \$2,262,388 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 31,678,112 31,996,31 Total Consolidated Obligations 52,858,231 59,496,552 Mandatorily redeemable capital stock 13,719 19,454 Accrued interest payable 67,258 77,52 Affordable Housing Program payable 101,724 110,772 Derivative liabilities 2,389 3,812 Other liabilities 479,408 331,000 Total liabilities 54,859,149 61,366,322 Commitments and contingencies 2,718,430 2,640,865 Retained earnings: 2,718,430 2,640,865 Retained earnings: 2,718,430 2,640,865 Unrestricted 791,390 802,712 Restricted 505,136 501,322 Total retained earnings 1,296,526 1,304,036 Accumulated other comprehensive loss (1,9	LIABILITIES				
Discount Notes (includes \$2,866,877 and \$0 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 21,180,119 27,500,24 Bonds (includes \$2,295,683 and \$2,262,388 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 31,678,112 31,996,31 Total Consolidated Obligations 52,858,231 59,496,55 Mandatorily redeemable capital stock 13,719 19,45 Accrued interest payable 67,258 77,52 Affordable Housing Program payable 101,724 110,77 Derivative liabilities 2,389 3,81 Other liabilities 479,408 331,000 Total liabilities 54,859,149 61,366,32 Commitments and contingencies 54,859,149 61,366,32 CAPITAL Capital stock Class B putable (\$100 par value); issued and outstanding shares: 27,184 shares at June 30, 2021 and 26,409 shares at December 31, 2020 2,718,430 2,640,86 Retained earnings: 791,390 802,71 802,71 Restricted 791,390 802,71 802,71 Restricted 505,136 501,32 Total retained earnings 1,296,526	Deposits	\$	1,336,420	\$	1,327,202
June 30, 2021 and December 31, 2020, respectively) 21,180,119 27,500,24- Bonds (includes \$2,295,683 and \$2,262,388 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively) 31,678,112 31,996,31 Total Consolidated Obligations 52,858,231 59,496,55. Mandatorily redeemable capital stock 13,719 19,45-4. Accrued interest payable 67,258 77,52 Affordable Housing Program payable 101,724 110,77. Derivative liabilities 2,389 3,81. Other liabilities 479,408 331,008 Total liabilities 54,859,149 61,366,32. Commitments and contingencies 54,859,149 61,366,32. CAPITAL Capital stock Class B putable (\$100 par value); issued and outstanding shares: 27,184 shares at June 30, 2021 and 26,409 shares at December 31, 2020 2,718,430 2,640,86. Retained earnings: Unrestricted 791,390 802,71: Restricted 505,136 501,32 Total retained earnings 1,296,526 1,304,036 Accumulated other comprehensive loss (1,986) (14,98: Total c	Consolidated Obligations:				
June 30, 2021 and December 31, 2020, respectively) 31,678,112 31,996,31 Total Consolidated Obligations 52,858,231 59,496,55 Mandatorily redeemable capital stock 13,719 19,45 Accrued interest payable 67,258 77,52 Affordable Housing Program payable 101,724 110,77 Derivative liabilities 2,389 3,81 Other liabilities 479,408 331,000 Total liabilities 54,859,149 61,366,32 Commitments and contingencies 2,718,430 2,640,86 Retained earnings: 2,718,430 2,640,86 Retained earnings: 2,718,430 2,640,86 Unrestricted 791,390 802,71 Restricted 505,136 501,32 Total retained earnings 1,296,526 1,304,03 Accumulated other comprehensive loss (1,986) (14,985) Total capital 4,012,970 3,929,91	Discount Notes (includes \$2,866,877 and \$0 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively)		21,180,119		27,500,244
Mandatorily redeemable capital stock 13,719 19,45 Accrued interest payable 67,258 77,52 Affordable Housing Program payable 101,724 110,777 Derivative liabilities 2,389 3,817 Other liabilities 479,408 331,000 Total liabilities 54,859,149 61,366,32 Commitments and contingencies CAPITAL Capital stock Class B putable (\$100 par value); issued and outstanding shares: 27,184 shares at June 30, 2021 and 26,409 shares at December 31, 2020 2,718,430 2,640,865 Retained earnings: Unrestricted 791,390 802,715 Restricted 505,136 501,322 Total retained earnings 1,296,526 1,304,034 Accumulated other comprehensive loss (1,986) (14,985) Total capital 4,012,970 3,929,915	Bonds (includes \$2,295,683 and \$2,262,388 at fair value under fair value option at June 30, 2021 and December 31, 2020, respectively)		31,678,112		31,996,311
Accrued interest payable 67,258 77,52 Affordable Housing Program payable 101,724 110,777 Derivative liabilities 2,389 3,813 Other liabilities 479,408 331,008 Total liabilities 54,859,149 61,366,323 Commitments and contingencies CAPITAL Capital stock Class B putable (\$100 par value); issued and outstanding shares: 27,184 shares at June 30, 2021 and 26,409 shares at December 31, 2020 2,718,430 2,640,863 Retained earnings: Unrestricted 791,390 802,713 Restricted 505,136 501,32 Total retained earnings 1,296,526 1,304,036 Accumulated other comprehensive loss (1,986) (14,983) Total capital 4,012,970 3,929,914	Total Consolidated Obligations		52,858,231		59,496,555
Affordable Housing Program payable 101,724 110,772 Derivative liabilities 2,389 3,812 Other liabilities 479,408 331,008 Total liabilities 54,859,149 61,366,322 Commitments and contingencies CAPITAL Capital stock Class B putable (\$100 par value); issued and outstanding shares: 27,184 shares at June 30, 2021 and 26,409 shares at December 31, 2020 2,718,430 2,640,867 Retained earnings: Unrestricted 791,390 802,71: Restricted 505,136 501,32 Total retained earnings 1,296,526 1,304,036 Accumulated other comprehensive loss (1,986) (14,988) Total capital 4,012,970 3,929,914	Mandatorily redeemable capital stock		13,719		19,454
Derivative liabilities 2,389 3,812 Other liabilities 479,408 331,003 Total liabilities 54,859,149 61,366,323 Commitments and contingencies CAPITAL Capital stock Class B putable (\$100 par value); issued and outstanding shares: 27,184 shares at June 30, 2021 and 26,409 shares at December 31, 2020 2,718,430 2,640,863 Retained earnings: Unrestricted 791,390 802,713 Restricted 505,136 501,32 Total retained earnings 1,296,526 1,304,030 Accumulated other comprehensive loss (1,986) (14,983) Total capital 4,012,970 3,929,914	Accrued interest payable		67,258		77,521
Other liabilities 479,408 331,000 Total liabilities 54,859,149 61,366,320 Commitments and contingencies CAPITAL Capital stock Class B putable (\$100 par value); issued and outstanding shares: 27,184 shares at June 30, 2021 and 26,409 shares at December 31, 2020 2,718,430 2,640,860 Retained earnings: Unrestricted 791,390 802,713 Restricted 505,136 501,32 Total retained earnings 1,296,526 1,304,030 Accumulated other comprehensive loss (1,986) (14,985) Total capital 4,012,970 3,929,914	Affordable Housing Program payable		101,724		110,772
Total liabilities 54,859,149 61,366,325 Commitments and contingencies CAPITAL Capital stock Class B putable (\$100 par value); issued and outstanding shares: 27,184 shares at June 30, 2021 and 26,409 shares at December 31, 2020 2,718,430 2,640,865 Retained earnings: Unrestricted 791,390 802,715 Restricted 505,136 501,325 Total retained earnings 1,296,526 1,304,036 Accumulated other comprehensive loss (1,986) (14,985) Total capital 4,012,970 3,929,914	Derivative liabilities		2,389		3,813
Commitments and contingencies CAPITAL Capital stock Class B putable (\$100 par value); issued and outstanding shares: 27,184 shares at June 30, 2021 and 26,409 shares at December 31, 2020 2,718,430 2,640,865 Retained earnings: Unrestricted 791,390 802,713 Restricted 505,136 501,32 Total retained earnings 1,296,526 1,304,036 Accumulated other comprehensive loss (1,986) (14,985) Total capital 4,012,970 3,929,914	Other liabilities		479,408		331,008
CAPITAL Capital stock Class B putable (\$100 par value); issued and outstanding shares: 27,184 shares at June 30, 2021 and 26,409 shares at December 31, 2020 2,718,430 2,640,865 Retained earnings: Unrestricted 791,390 802,715 Restricted 505,136 501,32 Total retained earnings 1,296,526 1,304,036 Accumulated other comprehensive loss (1,986) (14,985) Total capital 4,012,970 3,929,914	Total liabilities		54,859,149		61,366,325
Capital stock Class B putable (\$100 par value); issued and outstanding shares: 27,184 shares at June 30, 2021 and 26,409 shares at December 31, 2020 2,718,430 2,640,865 Retained earnings: Unrestricted 791,390 802,713 Restricted 505,136 505,136 501,32 Total retained earnings 1,296,526 1,304,036 Accumulated other comprehensive loss (1,986) (14,985) Total capital 4,012,970 3,929,914	Commitments and contingencies				, ,
at June 30, 2021 and 26,409 shares at December 31, 2020 2,718,430 2,640,866 Retained earnings: Unrestricted 791,390 802,713 Restricted 505,136 505,136 501,32 Total retained earnings 1,296,526 1,304,030 Accumulated other comprehensive loss (1,986) (14,985) Total capital 4,012,970 3,929,914	CAPITAL				
Unrestricted 791,390 802,713 Restricted 505,136 501,322 Total retained earnings 1,296,526 1,304,036 Accumulated other comprehensive loss (1,986) (14,985) Total capital 4,012,970 3,929,914			2,718,430		2,640,863
Restricted 505,136 501,32 Total retained earnings 1,296,526 1,304,030 Accumulated other comprehensive loss (1,986) (14,985) Total capital 4,012,970 3,929,914	Retained earnings:				
Total retained earnings 1,296,526 1,304,030 Accumulated other comprehensive loss (1,986) (14,985) Total capital 4,012,970 3,929,914	Unrestricted		791,390		802,715
Total retained earnings 1,296,526 1,304,030 Accumulated other comprehensive loss (1,986) (14,985) Total capital 4,012,970 3,929,914	Restricted		505,136		501,321
Total capital 4,012,970 3,929,914	Total retained earnings		1,296,526		1,304,036
Total capital 4,012,970 3,929,914	Accumulated other comprehensive loss		(1,986)		(14,985)
	Total capital		4,012,970		3,929,914
	•	\$		\$	65,296,239

⁽a) Fair values: \$8,947,316 and \$9,792,136 at June 30, 2021 and December 31, 2020, respectively.

FEDERAL HOME LOAN BANK OF CINCINNATI STATEMENTS OF INCOME (Unaudited)

(In thousands)	Three Months Ended June 30,						nded June 30,		
		2021		2020		2021		2020	
INTEREST INCOME:									
Advances	\$	31,371	\$	158,437	\$	72,531	\$	330,604	
Prepayment fees on Advances, net		5,060		13,320		6,400		17,594	
Interest-bearing deposits		164		410		381		3,760	
Securities purchased under agreements to resell		53		236		267		10,390	
Federal funds sold		1,204		554		2,546		29,080	
Investment securities:									
Trading securities		53,670		67,691		111,722		135,595	
Available-for-sale securities		344		619		1,679		4,015	
Held-to-maturity securities		24,412		48,379		54,143		116,683	
Total investment securities		78,426		116,689		167,544		256,293	
Mortgage loans held for portfolio		38,430		74,151		82,844		163,408	
Loans to other FHLBanks								60	
Total interest income		154,708		363,797		332,513		811,189	
INTEREST EXPENSE:									
Consolidated Obligations:									
Discount Notes		1,761		83,332		7,229		259,456	
Bonds		86,589		129,808		182,775		315,795	
Total Consolidated Obligations		88,350		213,140		190,004		575,251	
Deposits		97		198		248		3,174	
Mandatorily redeemable capital stock		110		864		204		1,054	
Total interest expense		88,557		214,202		190,456		579,479	
NET INTEREST INCOME		66,151		149,595		142,057		231,710	
NON-INTEREST INCOME (LOSS):									
Net gains (losses) on investment securities		(15,389)		(10,404)		(154,249)		362,002	
Net gains (losses) on financial instruments held under fair value option		2,602		25,741		6,507		(25,089)	
Net gains (losses) on derivatives and hedging activities		(36,079)		(33,972)		61,065		(327,938)	
Standby Letters of Credit fees		6,632		3,234		12,443		5,704	
Other, net		394		376		829		985	
Total non-interest income (loss)		(41,840)		(15,025)		(73,405)		15,664	
NON-INTEREST EXPENSE:									
Compensation and benefits		12,086		11,951		24,989		25,291	
Other operating expenses		5,232		4,968		11,184		11,071	
Finance Agency		1,879		1,629		3,758		3,257	
Office of Finance		1,171		1,445		2,442		2,703	
Other		3,543		4,025		5,061		5,976	
Total non-interest expense		23,911		24,018		47,434		48,298	
INCOME BEFORE ASSESSMENTS		400		110,552		21,218		199,076	
Affordable Housing Program assessments		51		11,142		2,142		20,013	
NET INCOME	\$	349	\$	99,410	\$	19,076	\$	179,063	

FEDERAL HOME LOAN BANK OF CINCINNATI STATEMENTS OF COMPREHENSIVE INCOME (Unaudited)

(In thousands)	T	hree Months	Endec	l June 30,	Six Months Ended June 30,			
		2021		2020		2021	2020	
Net income	\$	349	\$	99,410	\$	19,076	\$	179,063
Other comprehensive income adjustments:								
Net unrealized gains (losses) on available-for-sale securities		8,960		22		11,647		(883)
Pension and postretirement benefits		676		581		1,352		1,144
Total other comprehensive income (loss) adjustments		9,636		603		12,999		261
Comprehensive income	\$	9,985	\$	100,013	\$	32,075	\$	179,324

FEDERAL HOME LOAN BANK OF CINCINNATI STATEMENTS OF CAPITAL (Unaudited)

(In thousands)		al Stock 3 - Putable	Retained Earnings					ccumulated Other mprehensive	Total
	Shares	Par Value	Uı	nrestricted	Restricted	Total		Loss	Capital
BALANCE, MARCH 31, 2020	47,394	\$4,739,413	\$	690,615	\$ 461,979	\$ 1,152,594	\$	(16,736)	\$5,875,271
Comprehensive income (loss)				79,528	19,882	99,410		603	100,013
Proceeds from sale of capital stock	313	31,339							31,339
Repurchase of capital stock	(9,500)	(950,000)							(950,000)
Net shares reclassified to mandatorily redeemable capital stock	(76)	(7,642)							(7,642)
Partial recovery of prior capital distribution to Financing Corporation				16,533		16,533			16,533
Cash dividends on capital stock				(21,592)		(21,592)			(21,592)
BALANCE, JUNE 30, 2020	38,131	\$3,813,110	\$	765,084	\$ 481,861	\$ 1,246,945	\$	(16,133)	\$5,043,922
BALANCE, MARCH 31, 2021	27,479	\$2,747,938	\$	803,806	\$ 505,066	\$ 1,308,872	\$	(11,622)	\$4,045,188
Comprehensive income (loss)				279	70	349		9,636	9,985
Proceeds from sale of capital stock	6,289	628,894							628,894
Repurchase of capital stock	(5,984)	(598,402)							(598,402)
Net shares reclassified to mandatorily redeemable capital stock	(600)	(60,000)							(60,000)
Cash dividends on capital stock				(12,695)		(12,695)			(12,695)
BALANCE, JUNE 30, 2021	27,184	\$2,718,430	\$	791,390	\$ 505,136	\$ 1,296,526	\$	(1,986)	\$4,012,970
							Α	ccumulated	
(In thousands)		al Stock B - Putable		Re	tained Earnin	gs		Other mprehensive	Total
	Class E Shares	Par Value	_	nrestricted	Restricted	Total	Co	Other mprehensive Loss	Capital
BALANCE, DECEMBER 31, 2019	Class E	B - Putable	Uı \$			_		Other mprehensive	
· ·	Class E Shares	Par Value	_	nrestricted	Restricted	Total	Co	Other mprehensive Loss	Capital
BALANCE, DECEMBER 31, 2019 Adjustment for cumulative effect of accounting change Comprehensive income (loss)	Class E Shares	Par Value	_	nrestricted 648,374	Restricted	Total \$1,094,422	Co	Other mprehensive Loss	Capital \$4,444,456 366 179,324
BALANCE, DECEMBER 31, 2019 Adjustment for cumulative effect of accounting change	Class E Shares	Par Value	_	648,374 366	Restricted \$ 446,048	Total \$1,094,422	Co	Other mprehensive Loss (16,394)	Capital \$4,444,456
BALANCE, DECEMBER 31, 2019 Adjustment for cumulative effect of accounting change Comprehensive income (loss) Proceeds from sale of capital stock Repurchase of capital stock	Class E Shares 33,664	Par Value \$3,366,428	_	648,374 366	Restricted \$ 446,048	Total \$1,094,422	Co	Other mprehensive Loss (16,394)	Capital \$4,444,456 366 179,324
BALANCE, DECEMBER 31, 2019 Adjustment for cumulative effect of accounting change Comprehensive income (loss) Proceeds from sale of capital stock	Class E Shares 33,664 21,042	Par Value \$3,366,428 2,104,201	_	648,374 366	Restricted \$ 446,048	Total \$1,094,422	Co	Other mprehensive Loss (16,394)	Capital \$4,444,456 366 179,324 2,104,201
BALANCE, DECEMBER 31, 2019 Adjustment for cumulative effect of accounting change Comprehensive income (loss) Proceeds from sale of capital stock Repurchase of capital stock Net shares reclassified to mandatorily	Class E Shares 33,664 21,042 (11,000)	Par Value \$3,366,428 2,104,201 (1,100,000)	_	648,374 366	Restricted \$ 446,048	Total \$1,094,422	Co	Other mprehensive Loss (16,394)	Capital \$4,444,456 366 179,324 2,104,201 (1,100,000)
BALANCE, DECEMBER 31, 2019 Adjustment for cumulative effect of accounting change Comprehensive income (loss) Proceeds from sale of capital stock Repurchase of capital stock Net shares reclassified to mandatorily redeemable capital stock Partial recovery of prior capital	Class E Shares 33,664 21,042 (11,000)	Par Value \$3,366,428 2,104,201 (1,100,000)	_	366 143,250	Restricted \$ 446,048	Total \$ 1,094,422 366 179,063	Co	Other mprehensive Loss (16,394)	Capital \$4,444,456 366 179,324 2,104,201 (1,100,000) (557,519)
BALANCE, DECEMBER 31, 2019 Adjustment for cumulative effect of accounting change Comprehensive income (loss) Proceeds from sale of capital stock Repurchase of capital stock Net shares reclassified to mandatorily redeemable capital stock Partial recovery of prior capital distribution to Financing Corporation	Class E Shares 33,664 21,042 (11,000)	Par Value \$3,366,428 2,104,201 (1,100,000)	_	366 143,250 16,533	Restricted \$ 446,048	Total \$ 1,094,422 366 179,063	Co	Other mprehensive Loss (16,394)	Capital \$4,444,456 366 179,324 2,104,201 (1,100,000) (557,519) 16,533
BALANCE, DECEMBER 31, 2019 Adjustment for cumulative effect of accounting change Comprehensive income (loss) Proceeds from sale of capital stock Repurchase of capital stock Net shares reclassified to mandatorily redeemable capital stock Partial recovery of prior capital distribution to Financing Corporation Cash dividends on capital stock	Class E Shares 33,664 21,042 (11,000) (5,575)	Par Value \$3,366,428 2,104,201 (1,100,000) (557,519)	\$	16,533 (43,439)	Restricted \$ 446,048 35,813	Total \$ 1,094,422 366 179,063 16,533 (43,439)	\$	Other mprehensive Loss (16,394) 261	Capital \$4,444,456 366 179,324 2,104,201 (1,100,000) (557,519) 16,533 (43,439)
BALANCE, DECEMBER 31, 2019 Adjustment for cumulative effect of accounting change Comprehensive income (loss) Proceeds from sale of capital stock Repurchase of capital stock Net shares reclassified to mandatorily redeemable capital stock Partial recovery of prior capital distribution to Financing Corporation Cash dividends on capital stock BALANCE, JUNE 30, 2020	Class E Shares 33,664 21,042 (11,000) (5,575)	Par Value \$3,366,428 2,104,201 (1,100,000) (557,519) \$3,813,110	\$	16,533 (43,439) 765,084	Restricted \$ 446,048 35,813	Total \$ 1,094,422 366 179,063 16,533 (43,439) \$ 1,246,945	\$ \$	Other mprehensive Loss (16,394) 261	Capital \$4,444,456 366 179,324 2,104,201 (1,100,000) (557,519) 16,533 (43,439) \$5,043,922
BALANCE, DECEMBER 31, 2019 Adjustment for cumulative effect of accounting change Comprehensive income (loss) Proceeds from sale of capital stock Repurchase of capital stock Net shares reclassified to mandatorily redeemable capital stock Partial recovery of prior capital distribution to Financing Corporation Cash dividends on capital stock BALANCE, JUNE 30, 2020 BALANCE, DECEMBER 31, 2020	Class E Shares 33,664 21,042 (11,000) (5,575)	Par Value \$3,366,428 2,104,201 (1,100,000) (557,519) \$3,813,110	\$	16,533 (43,439) 765,084	Restricted \$ 446,048 35,813 \$ 481,861 \$ 501,321	Total \$ 1,094,422 366 179,063 16,533 (43,439) \$ 1,246,945 \$ 1,304,036	\$ \$	Other mprehensive Loss (16,394) 261 (16,133) (14,985)	Capital \$4,444,456 366 179,324 2,104,201 (1,100,000) (557,519) 16,533 (43,439) \$5,043,922 \$3,929,914
BALANCE, DECEMBER 31, 2019 Adjustment for cumulative effect of accounting change Comprehensive income (loss) Proceeds from sale of capital stock Repurchase of capital stock Net shares reclassified to mandatorily redeemable capital stock Partial recovery of prior capital distribution to Financing Corporation Cash dividends on capital stock BALANCE, JUNE 30, 2020 BALANCE, DECEMBER 31, 2020 Comprehensive income (loss)	Class E Shares 33,664 21,042 (11,000) (5,575) 38,131 26,409	Par Value \$3,366,428 2,104,201 (1,100,000) (557,519) \$3,813,110 \$2,640,863	\$	16,533 (43,439) 765,084	Restricted \$ 446,048 35,813 \$ 481,861 \$ 501,321	Total \$ 1,094,422 366 179,063 16,533 (43,439) \$ 1,246,945 \$ 1,304,036	\$ \$	Other mprehensive Loss (16,394) 261 (16,133) (14,985)	Capital \$4,444,456 366 179,324 2,104,201 (1,100,000) (557,519) 16,533 (43,439) \$5,043,922 \$3,929,914 32,075
BALANCE, DECEMBER 31, 2019 Adjustment for cumulative effect of accounting change Comprehensive income (loss) Proceeds from sale of capital stock Repurchase of capital stock Net shares reclassified to mandatorily redeemable capital stock Partial recovery of prior capital distribution to Financing Corporation Cash dividends on capital stock BALANCE, JUNE 30, 2020 BALANCE, DECEMBER 31, 2020 Comprehensive income (loss) Proceeds from sale of capital stock	Class E Shares 33,664 21,042 (11,000) (5,575) 38,131 26,409 10,049	Par Value \$3,366,428 2,104,201 (1,100,000) (557,519) \$3,813,110 \$2,640,863 1,004,972	\$	16,533 (43,439) 765,084	Restricted \$ 446,048 35,813 \$ 481,861 \$ 501,321	Total \$ 1,094,422 366 179,063 16,533 (43,439) \$ 1,246,945 \$ 1,304,036	\$ \$	Other mprehensive Loss (16,394) 261 (16,133) (14,985)	Capital \$4,444,456 366 179,324 2,104,201 (1,100,000) (557,519) 16,533 (43,439) \$5,043,922 \$3,929,914 32,075 1,004,972
BALANCE, DECEMBER 31, 2019 Adjustment for cumulative effect of accounting change Comprehensive income (loss) Proceeds from sale of capital stock Repurchase of capital stock Net shares reclassified to mandatorily redeemable capital stock Partial recovery of prior capital distribution to Financing Corporation Cash dividends on capital stock BALANCE, JUNE 30, 2020 BALANCE, DECEMBER 31, 2020 Comprehensive income (loss) Proceeds from sale of capital stock Repurchase of capital stock Net shares reclassified to mandatorily	Class E Shares 33,664 21,042 (11,000) (5,575) 38,131 26,409 10,049 (8,664)	Par Value \$3,366,428 2,104,201 (1,100,000) (557,519) \$3,813,110 \$2,640,863 1,004,972 (866,402)	\$	16,533 (43,439) 765,084	Restricted \$ 446,048 35,813 \$ 481,861 \$ 501,321	Total \$ 1,094,422 366 179,063 16,533 (43,439) \$ 1,246,945 \$ 1,304,036	\$ \$	Other mprehensive Loss (16,394) 261 (16,133) (14,985)	Capital \$4,444,456 366 179,324 2,104,201 (1,100,000) (557,519) 16,533 (43,439) \$5,043,922 \$3,929,914 32,075 1,004,972 (866,402)

FEDERAL HOME LOAN BANK OF CINCINNATI STATEMENTS OF CASH FLOWS (Unaudited)

(In thousands)		Six Months E	nded	June 30,
		2021		2020
OPERATING ACTIVITIES:				
Net income	\$	19,076	\$	179,063
Adjustments to reconcile net income to net cash provided by (used in) operating activities:				
Depreciation and amortization		47,699		40,466
Net change in derivative and hedging activities		96,090		(224,019)
Net change in fair value adjustments on trading securities		154,249		(362,002)
Net change in fair value adjustments on financial instruments held under fair value option		(6,507)		25,089
Other adjustments, net		447		569
Net change in:				
Accrued interest receivable		16,981		36,565
Other assets		4,868		3,172
Accrued interest payable		(19,376)		(40,551)
Other liabilities		(13,293)		20,018
Total adjustments		281,158		(500,693)
Net cash provided by (used in) operating activities		300,234		(321,630)
INVESTING ACTIVITIES:				
Net change in:				
Interest-bearing deposits		232,472		(590,355)
Securities purchased under agreements to resell		1,381,768		1,384,740
Federal funds sold		(1,935,000)		1,308,000
Premises, software, and equipment		(501)		(863)
Trading securities:				
Proceeds from maturities		750,062		54
Proceeds from sale		256,346		_
Available-for-sale securities:				
Proceeds from maturities		_		1,810,000
Purchases		(1,649,104)		(400,000)
Held-to-maturity securities:				, , ,
Proceeds from maturities		1,582,303		1,659,909
Purchases		(616,065)		(34,234)
Advances:		, , ,		
Repaid	2	254,966,449		359,827,848
Originated		253,337,180)	((360,969,150)
Mortgage loans held for portfolio:	(-	,,)		
Principal collected		2,205,296		1,667,502
Purchases		(432,636)		(2,161,320)
Net cash provided by (used in) investing activities		3,404,210		3,502,131

(continued from previous page)

FEDERAL HOME LOAN BANK OF CINCINNATI STATEMENTS OF CASH FLOWS (Unaudited)

(In thousands)		Six Months Ended June 30,			
		2021		2020	
FINANCING ACTIVITIES:					
Net change in deposits and pass-through reserves	\$	9,718	\$	281,252	
Net proceeds (payments) on derivative contracts with financing elements		_		(689)	
Net proceeds from issuance of Consolidated Obligations:					
Discount Notes		99,552,017		180,208,634	
Bonds		19,762,205		20,341,399	
Payments for maturing and retiring Consolidated Obligations:					
Discount Notes	(1	105,864,700)	(184,963,367)	
Bonds		(20,058,000)		(19,462,565)	
Proceeds from issuance of capital stock		1,004,972		2,104,201	
Payments for repurchase of capital stock		(866,402)		(1,100,000)	
Payments for repurchase/redemption of mandatorily redeemable capital stock		(66,738)		(560,138)	
Cash dividends paid		(26,586)		(43,439)	
Partial recovery of prior capital distribution to Financing Corporation				16,533	
Net cash provided by (used in) financing activities		(6,553,514)		(3,178,179)	
Net increase (decrease) in cash and due from banks		(2,849,070)		2,322	
Cash and due from banks at beginning of the period		2,984,073		20,608	
Cash and due from banks at end of the period	\$	135,003	\$	22,930	
Supplemental Disclosures:					
Interest paid	\$	214,794	\$	643,599	
Affordable Housing Program payments, net	\$	11,190	\$	14,108	

FEDERAL HOME LOAN BANK OF CINCINNATI

NOTES TO UNAUDITED FINANCIAL STATEMENTS

Background Information

The Federal Home Loan Bank of Cincinnati (the FHLB), a federally chartered corporation, is one of 11 District Federal Home Loan Banks (FHLBanks). The FHLBanks are government-sponsored enterprises (GSEs) that serve the public by enhancing the availability of credit for residential mortgages and targeted community development. The FHLB is regulated by the Federal Housing Finance Agency (Finance Agency).

Note 1 - Basis of Presentation

The accompanying interim financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America (GAAP). The preparation of financial statements in accordance with GAAP requires management to make assumptions and estimates. These assumptions and estimates affect the reported amount of assets and liabilities, the disclosure of contingent assets and liabilities, and the reported amounts of income and expenses. Actual results could differ from these estimates. The interim financial statements presented are unaudited, but they include all adjustments (consisting of only normal recurring adjustments) which are, in the opinion of management, necessary for a fair statement of the financial condition, results of operations, and cash flows for such periods. These financial statements do not include all disclosures associated with annual financial statements and accordingly should be read in conjunction with the audited financial statements and notes included in the FHLB's Annual Report on Form 10-K for the year ended December 31, 2020 filed with the Securities and Exchange Commission (SEC). Results for the six months ended June 30, 2021 are not necessarily indicative of operating results for the full year.

The FHLB presents certain financial instruments, including derivative instruments and securities purchased under agreements to resell, on a net basis when it has a legal right of offset and all other requirements for netting are met (collectively referred to as the netting requirements). For these instruments, the FHLB has elected to offset its asset and liability positions, as well as cash collateral received or pledged, when it has met the netting requirements. The FHLB did not have any offsetting liabilities related to its securities purchased under agreements to resell for the periods presented.

The net exposure for these financial instruments can change on a daily basis; therefore, there may be a delay between the time this exposure change is identified and additional collateral is requested, and the time this collateral is received or pledged. Likewise, there may be a delay for excess collateral to be returned. For derivative instruments that meet the requirements for netting, any excess cash collateral received or pledged is recognized as a derivative liability or derivative asset. Additional information regarding these agreements is provided in Note 6. Based on the fair value of the related collateral held, the securities purchased under agreements to resell were fully collateralized for the periods presented. For more information about the FHLB's investments in securities purchased under agreements to resell, see "Item 8. Financial Statements and Supplementary Data - Note 1 - Summary of Significant Accounting Policies" in the FHLB's 2020 Annual Report on Form 10-K.

Subsequent Events

The FHLB has evaluated subsequent events for potential recognition or disclosure through the issuance of these financial statements and believes there have been no material subsequent events requiring additional disclosure or recognition in these financial statements.

Note 2 - Recently Issued and Adopted Accounting Guidance

Facilitation of the Effects of Reference Rate Reform on Financial Reporting, as amended. On March 12, 2020, the Financial Accounting Standards Board (FASB) issued temporary, optional guidance to ease the potential burden in accounting for reference rate reform. The new guidance provides optional expedients and exceptions for applying GAAP to transactions affected by reference rate reform if certain criteria are met. The transactions primarily include (1) contract modifications, (2) hedging relationships, and (3) sale and/or transfer of debt securities classified as held-to-maturity. This guidance became effective immediately for the FHLB, and the amendments may be applied prospectively through December 31, 2022. The FHLB either elected or plans to elect the majority of the optional expedients and exceptions provided; however, the full effect on the FHLB's financial condition, results of operations and cash flows has not yet been determined. In particular, during the

fourth quarter of 2020, the FHLB elected optional practical expedients specific to the discounting transition on a retrospective basis, which did not have a material effect.

Note 3 - Investments

The FHLB makes short-term investments in interest-bearing deposits, securities purchased under agreements to resell, and Federal funds sold and may make other investments in debt securities, which are classified as either trading, available-for-sale, or held-to-maturity.

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

The FHLB invests in interest-bearing deposits, securities purchased under agreements to resell, and Federal funds sold to provide short-term liquidity. These investments are transacted with counterparties that have received a credit rating of single-A or greater by a nationally recognized statistical rating organization (NRSRO). The FHLB's internal ratings of these counterparties may differ from those issued by an NRSRO.

Federal funds sold are unsecured loans that are generally transacted on an overnight term. Finance Agency regulations include a limit on the amount of unsecured credit the FHLB may extend to a counterparty. At June 30, 2021 and December 31, 2020, all investments in interest-bearing deposits and Federal funds sold were repaid or expected to be repaid according to the contractual terms. No allowance for credit losses was recorded for these assets at June 30, 2021 and December 31, 2020. Carrying values of interest-bearing deposits and Federal funds sold exclude accrued interest receivable of (in thousands) \$50 and \$12 as of June 30, 2021, and \$72 and \$10 as of December 31, 2020.

Securities purchased under agreements to resell are short-term and are structured such that they are evaluated regularly to determine if the market value of the underlying securities decreases below the market value required as collateral (i.e., subject to collateral maintenance provisions). If so, the counterparty must place an equivalent amount of additional securities as collateral or remit an equivalent amount of cash, generally by the next business day. Based upon the collateral held as security and collateral maintenance provisions with counterparties, the FHLB determined that no allowance for credit losses was needed for its securities purchased under agreements to resell at June 30, 2021 and December 31, 2020. The carrying value of securities purchased under agreements to resell excludes accrued interest receivable of (in thousands) \$8 and \$13 as of June 30, 2021 and December 31, 2020.

Debt Securities

The FHLB invests in debt securities, which are classified as either trading, available-for-sale, or held-to-maturity. The FHLB is prohibited by Finance Agency regulations from purchasing certain higher-risk securities, such as equity securities and debt instruments that are not investment quality, other than certain investments targeted at low-income persons or communities and instruments that experienced credit deterioration after their purchase by the FHLB.

Trading Securities

Table 3.1 - Trading Securities by Major Security Types (in thousands)

Fair Value	Ju	ne 30, 2021	December 31, 2020		
Non-mortgage-backed securities (non-MBS):		_		_	
U.S. Treasury obligations	\$	7,536,087	\$	8,362,211	
GSE obligations		1,791,111		2,125,580	
Total non-MBS		9,327,198		10,487,791	
Mortgage-backed securities (MBS):				_	
U.S. obligation single-family MBS		269		333	
Total	\$	9,327,467	\$	10,488,124	

Table 3.2 - Net Gains (Losses) on Trading Securities (in thousands)

	Three Months Ended June 30,					Six Months Ended June 30,				
		2021		2020		2021		2020		
Net unrealized gains (losses) on trading securities held at period end	\$	(8,603)	\$	(10,404)	\$	(143,842)	\$	362,002		
Net gains (losses) on trading securities sold/ matured during the period		(6,786)		_		(10,407)		_		
Net gains (losses) on trading securities	\$	(15,389)	\$	(10,404)	\$	(154,249)	\$	362,002		

Available-for-Sale Securities

Table 3.3 - Available-for-Sale Securities by Major Security Types (in thousands)

	June 30, 2021							
	Amortized Cost (1)	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value				
Non-MBS:								
U.S. Treasury obligations	\$ 1,654,897	\$ 8,783	\$ —	\$ 1,663,680				
GSE obligations	135,740	2,423	<u> </u>	138,163				
Total non-MBS	1,790,637	11,206		1,801,843				
MBS:								
GSE multi-family MBS	140,869	5,159		146,028				
Total MBS	140,869	5,159		146,028				
Total	\$ 1,931,506	\$ 16,365	\$	\$ 1,947,871				
		Decembe	r 31, 2020					

	December 31, 2020							
	Amortized Cost (1)			Gross cealized Gains	Gross Unrealized Losses			Fair Value
Non-MBS:								
GSE obligations	\$	140,600	\$	1,802	\$		\$	142,402
Total non-MBS		140,600		1,802				142,402
MBS:								
GSE multi-family MBS		146,269		2,916		<u> </u>		149,185
Total MBS		146,269		2,916				149,185
Total	\$	286,869	\$	4,718	\$		\$	291,587

⁽¹⁾ Amortized cost of available-for-sale securities includes adjustments made to the cost basis of an investment for accretion, amortization, and/or fair value hedge accounting adjustments, and excludes accrued interest receivable of (in thousands) \$5,390 and \$1,242 at June 30, 2021 and December 31, 2020.

All securities outstanding at June 30, 2021 and December 31, 2020 had gross unrealized gains.

Table 3.4 - Available-for-Sale Securities by Contractual Maturity (in thousands)

	June 3	30, 2021	Decembe	er 31, 2020		
Year of Maturity	Amortized Cost	Fair Value	Amortized Cost	Fair Value		
Non-MBS:						
Due in 1 year or less	\$ —	\$ —	\$ —	\$ —		
Due after 1 year through 5 years	82,990	84,147	11,248	11,309		
Due after 5 years through 10 years	1,695,070	1,704,598	116,096	117,507		
Due after 10 years	12,577	13,098	13,256	13,586		
Total non-MBS	1,790,637	1,801,843	140,600	142,402		
MBS ⁽¹⁾	140,869	146,028	146,269	149,185		
Total	\$ 1,931,506	\$ 1,947,871	\$ 286,869	\$ 291,587		

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

Table 3.5 - Interest Rate Payment Terms of Available-for-Sale Securities (in thousands)

	Ju	ne 30, 2021	December 31, 2020		
Amortized cost of non-MBS:					
Fixed-rate	\$	1,790,637	\$	140,600	
Total amortized cost of non-MBS		1,790,637		140,600	
Amortized cost of MBS:		_			
Fixed-rate		140,869		146,269	
Total amortized cost of MBS		140,869		146,269	
Total	\$	1,931,506	\$	286,869	

The FHLB had no sales of securities out of its available-for-sale portfolio for the six months ended June 30, 2021 or 2020.

Table 3.6 - Held-to-Maturity Securities by Major Security Types (in thousands)

	June 30, 2021							
		mortized Cost ⁽¹⁾	Uı	Gross precognized Holding Gains	Uı	Gross nrecognized Holding Losses	F	air Value
Non-MBS:								
U.S. Treasury obligations	\$	40,499	\$		\$		\$	40,499
Total non-MBS		40,499		_				40,499
MBS:								
U.S. obligation single-family MBS		1,092,017		27,780		(297)		1,119,500
GSE single-family MBS		2,317,442		80,500		_		2,397,942
GSE multi-family MBS		5,385,061		6,252		(1,938)		5,389,375
Total MBS		8,794,520		114,532		(2,235)		8,906,817
Total	\$	8,835,019	\$	114,532	\$	(2,235)	\$	8,947,316

	December 31, 2020							
	A	mortized Cost ⁽¹⁾	Uı	Gross nrecognized Holding Gains	Uı	Gross precognized Holding Losses	F	air Value
Non-MBS:								
U.S. Treasury obligations	\$	41,398	\$	1	\$		\$	41,399
Total non-MBS		41,398		1		_		41,399
MBS:								
U.S. obligation single-family MBS		986,399		41,218		_		1,027,617
GSE single-family MBS		3,013,326		105,657		(2)		3,118,981
GSE multi-family MBS		5,607,048		5,146		(8,055)		5,604,139
Total MBS		9,606,773		152,021		(8,057)		9,750,737
Total	\$	9,648,171	\$	152,022	\$	(8,057)	\$	9,792,136

⁽¹⁾ Carrying value equals amortized cost. Amortized cost of held-to-maturity securities includes adjustments made to the cost basis of an investment for accretion and amortization and excludes accrued interest receivable of (in thousands) \$7,964 and \$9,609 as of June 30, 2021 and December 31, 2020.

Table 3.7 - Net Purchased Premiums Included in the Amortized Cost of MBS Classified as Held-to-Maturity (in thousands)

	Ju	ine 30, 2021	December 31, 2020		
Premiums	\$	17,262	\$	18,299	
Discounts		(6,262)		(7,269)	
Net purchased premiums	\$	11,000	\$	11,030	

Table 3.8 - Held-to-Maturity Securities by Contractual Maturity (in thousands)

	June 30, 2021				December 31, 2020									
Year of Maturity		nortized Cost ⁽¹⁾		Fair Value	A	Amortized Cost (1)								Fair Value
Non-MBS:														
Due in 1 year or less	\$	40,499	\$	40,499	\$	41,398	\$	41,399						
Due after 1 year through 5 years						_		_						
Due after 5 years through 10 years		_		_		_		_						
Due after 10 years						_		_						
Total non-MBS		40,499		40,499		41,398		41,399						
MBS (2)	8	8,794,520		8,906,817		9,606,773		9,750,737						
Total	\$ 8	8,835,019	\$	8,947,316	\$	9,648,171	\$	9,792,136						

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

Table 3.9 - Interest Rate Payment Terms of Held-to-Maturity Securities (in thousands)

	Jun	e 30, 2021	December 31, 2020		
Amortized cost of non-MBS:					
Fixed-rate	\$	40,499	\$	41,398	
Total amortized cost of non-MBS		40,499	41,398		
Amortized cost of MBS:					
Fixed-rate		3,158,930		3,677,199	
Variable-rate		5,635,590		5,929,574	
Total amortized cost of MBS		8,794,520		9,606,773	
Total	\$	8,835,019	\$	9,648,171	

From time to time the FHLB may sell securities out of its held-to-maturity portfolio. These securities, generally, have less than 15 percent of the acquired principal outstanding at the time of the sale. These sales are considered maturities for the purposes of security classification. For the six months ended June 30, 2021 and 2020, the FHLB did not sell any held-to-maturity securities.

Allowance for Credit Losses on Available-for-Sale and Held-to-Maturity Securities

The FHLB evaluates available-for-sale and held-to-maturity investment securities for credit losses on a quarterly basis. The FHLB's available-for-sale and held-to-maturity securities are U.S. Treasury obligations, GSE obligations, and MBS issued by Fannie Mae, Freddie Mac and Ginnie Mae that are backed by single-family or multi-family mortgage loans. The FHLB only purchases securities considered investment quality. At June 30, 2021 and December 31, 2020, all available-for-sale and held-to-maturity securities were rated single-A, or above, by an NRSRO, based on the lowest long-term credit rating for each security used by the FHLB. The FHLB's internal ratings of these securities may differ from those obtained from an NRSRO.

The FHLB evaluates individual available-for-sale securities for impairment by comparing the security's fair value to its amortized cost. Impairment may exist when the fair value of the investment is less than its amortized cost (i.e., in an unrealized loss position). At June 30, 2021 and December 31, 2020, no available-for-sale securities were in an unrealized loss position. As a result, no allowance for credit losses was recorded on these available-for-sale securities at June 30, 2021 and December 31, 2020.

The FHLB evaluates its held-to-maturity securities for impairment on a collective, or pooled basis, unless an individual assessment is deemed necessary because the securities do not possess similar risk characteristics. As of June 30, 2021 and December 31, 2020, the FHLB had not established an allowance for credit loss on any held-to-maturity securities because the securities: (1) were all highly-rated and/or had short remaining terms to maturity, (2) had not experienced, nor did the FHLB expect, any payment default on the instruments, and (3) in the case of U.S., GSE, or other agency obligations, carry an implicit or explicit government guarantee such that the FHLB considered the risk of nonpayment to be zero.

Note 4 - Advances

The FHLB offers a wide range of fixed- and variable-rate Advance products with different maturities, interest rates, payment characteristics and optionality. The following table presents Advance redemptions by contractual maturity, including index-amortizing Advances, which are presented according to their predetermined amortization schedules.

Table 4.1 - Advances by Redemption Term (dollars in thousands)

	June 30, 2021			 December 3	2020	
Redemption Term		Amount	Weighted Average Interest Rate	Amount	Weighted Average Interest Rate	
Due in 1 year or less	\$	11,594,813	0.51 %	\$ 12,064,753	0.75 %	
Due after 1 year through 2 years		1,507,005	1.70	1,986,446	1.88	
Due after 2 years through 3 years		1,730,057	2.22	1,445,139	2.15	
Due after 3 years through 4 years		1,510,405	1.54	1,809,523	1.97	
Due after 4 years through 5 years		3,377,957	0.82	2,361,604	1.02	
Thereafter		3,657,892	1.52	5,339,932	1.34	
Total principal amount		23,378,129	0.98	25,007,397	1.16	
Commitment fees		(160)		(170)		
Discount on Affordable Housing Program (AHP) Advances		(1,689)		(2,053)		
Discounts		(1,675)		(2,046)		
Hedging adjustments		212,370		358,173		
Fair value option valuation adjustments and accrued interest		(434)		702		
Total (1)	\$	23,586,541		\$ 25,362,003		

⁽¹⁾ Carrying values exclude accrued interest receivable of (in thousands) \$19,583 and \$26,426 as of June 30, 2021 and December 31, 2020.

The FHLB offers certain fixed and variable-rate Advances to members that may be prepaid on specified dates (call dates) without incurring prepayment or termination fees (callable Advances). If the call option is exercised, replacement funding may be available to members. Other Advances may only be prepaid subject to a prepayment fee paid to the FHLB that makes the FHLB financially indifferent to the prepayment of the Advance.

Table 4.2 - Advances by Redemption Term or Next Call Date (in thousands)

Redemption Term or Next Call Date	 June 30, 2021	December 31, 2020
Due in 1 year or less	\$ 14,907,547	\$ 15,375,354
Due after 1 year through 2 years	1,222,522	1,716,058
Due after 2 years through 3 years	1,708,257	1,434,377
Due after 3 years through 4 years	1,503,954	1,785,672
Due after 4 years through 5 years	399,457	877,504
Thereafter	 3,636,392	3,818,432
Total principal amount	\$ 23,378,129	\$ 25,007,397

The FHLB also offers putable Advances. With a putable Advance, the FHLB effectively purchases put options from the member that allows the FHLB to terminate the Advance at predetermined dates. The FHLB normally would exercise its put option when interest rates increase relative to contractual rates.

Table 4.3 - Advances by Redemption Term or Next Put Date for Putable Advances (in thousands)

Redemption Term or Next Put Date	June 30, 2021			ecember 31, 2020
Due in 1 year or less	\$	14,072,063	\$	14,407,003
Due after 1 year through 2 years		1,587,005		2,146,446
Due after 2 years through 3 years		1,675,057		1,485,139
Due after 3 years through 4 years		1,531,155		1,855,273
Due after 4 years through 5 years		3,377,957		2,346,604
Thereafter		1,134,892		2,766,932
Total principal amount	\$	23,378,129	\$	25,007,397

Table 4.4 - Advances by Interest Rate Payment Terms (in thousands)

	June 30, 2021	De	cember 31, 2020
Total fixed-rate (1)	\$ 17,772,835	\$	19,195,790
Total variable-rate (1)	5,605,294		5,811,607
Total principal amount	\$ 23,378,129	\$	25,007,397

⁽¹⁾ Payment terms based on current interest rate terms, which reflect any option exercises or rate conversions that have occurred subsequent to the related Advance issuance.

Credit Risk Exposure and Security Terms

The FHLB's Advances are made to member financial institutions. The FHLB manages its credit exposure to Advances through an integrated approach that includes establishing a credit limit for each borrower and ongoing review of each borrower's financial condition, coupled with collateral and lending policies to limit risk of loss while balancing borrowers' needs for a reliable source of funding.

In addition, the FHLB lends to eligible borrowers in accordance with federal law and Finance Agency regulations, which require the FHLB to obtain sufficient collateral to fully secure credit products. Collateral eligible to secure new or renewed Advances includes:

- one-to-four family and multi-family mortgage loans (delinquent for no more than 90 days) and securities representing such mortgages;
- loans and securities issued, insured, or guaranteed by the U.S. government or any U.S. government agency (for example, mortgage-backed securities issued or guaranteed by Fannie Mae, Freddie Mac, or Ginnie Mae);
- cash or deposits in the FHLB;
- certain other collateral that is real estate-related, provided that the collateral has a readily ascertainable value and that the FHLB can perfect a security interest in it; and
- certain qualifying securities representing undivided equity interests in eligible Advance collateral.

Residential mortgage loans are the principal form of collateral for Advances. The estimated value of the collateral required to secure each member's credit products is calculated by applying collateral discounts, or haircuts, to the value of the collateral. In addition, community financial institutions are eligible to utilize expanded statutory collateral provisions for small business and agribusiness loans. The FHLB's capital stock owned by its member borrowers is also pledged as collateral. Collateral arrangements and a member's borrowing capacity vary based on the financial condition and performance of the institution, the types of collateral pledged and the overall quality of those assets. The FHLB can also require additional or substitute collateral to protect its security interest. The FHLB also has policies and procedures for validating the reasonableness of its collateral valuations and makes changes to its collateral guidelines, as necessary, based on current market conditions. In addition, collateral verifications and reviews are performed by the FHLB based on the risk profile of the borrower. Management of the FHLB believes that these policies effectively manage the FHLB's credit risk from Advances.

Members experiencing financial difficulties are subject to FHLB-performed "stress tests" of the impact of poorly performing assets on the member's capital and loss reserve positions. Depending on the results of these tests and the level of over-collateralization, a member may be allowed to maintain pledged loan assets in its custody, may be required to deliver those loans into the custody of the FHLB or its agent, or may be required to provide details on those loans to facilitate an estimate of their fair value. The FHLB perfects its security interest in all pledged collateral. The FHLBank Act affords any security interest granted to the FHLB by a member priority over the claims or rights of any other party except for claims or rights of a third

party that would otherwise be entitled to priority under applicable law and that are held by a bona fide purchaser for value or by a secured party holding a prior perfected security interest.

Using a risk-based approach, the FHLB considers the payment status, collateralization levels, and borrower's financial condition to be indicators of credit quality for its credit products. At June 30, 2021 and December 31, 2020, the FHLB did not have any Advances that were past due, in non-accrual status or considered impaired. In addition, there were no troubled debt restructurings related to Advances of the FHLB during the six months ended June 30, 2021 or 2020. At June 30, 2021 and December 31, 2020, the FHLB had rights to collateral on a member-by-member basis with an estimated value in excess of its outstanding extensions of credit.

Based upon the collateral held as security, its credit extension and collateral policies and the repayment history on Advances, the FHLB did not expect any credit losses on Advances as of June 30, 2021 and, therefore, no allowance for credit losses on Advances was recorded. For the same reasons, the FHLB did not record any allowance for credit losses on Advances at December 31, 2020.

Advance Concentrations

The FHLB's Advances are concentrated in commercial banks, savings institutions, and insurance companies. Advance borrower concentrations can change significantly due to members' ability to quickly increase or decrease their amount of Advances based on their current funding needs.

Table 4.5 - Borrowers Holding Five Percent or more of Total Advances, Including Any Known Affiliates that are Members of the FHLB (dollars in millions)

June 30, 2	2021			December 31, 2020					
	Pı	rincipal	% of Total Principal Amount of Advances		P	rincipal	% of Total Principal Amount of Advances		
U.S. Bank, N.A.	\$	3,272	14 %	U.S. Bank, N.A.	\$	4,273	17 %		
Third Federal Savings and Loan Association		3,141	13	Third Federal Savings and Loan Association		3,443	14		
Nationwide Life Insurance Company		2,607	11	Nationwide Life Insurance Company		2,062	8		
Protective Life Insurance Company		2,225	10	Protective Life Insurance Company		1,955	8		
Western-Southern Life Assurance Co.		1,504	6	Western-Southern Life Assurance Co.		1,344	5		
Total	\$	12,749	54 %	Total	\$	13,077	52 %		

Note 5 - Mortgage Loans

Total mortgage loans held for portfolio represent residential mortgage loans under the Mortgage Purchase Program (MPP) that the FHLB's members originate, credit enhance, and then sell to the FHLB. The FHLB does not service any of these loans. The FHLB plans to retain its existing portfolio of mortgage loans.

Table 5.1 - Mortgage Loans Held for Portfolio (in thousands)

	June 30, 2021	Decei	mber 31, 2020
Fixed rate medium-term single-family mortgage loans (1)	\$ 687,922	\$	731,756
Fixed rate long-term single-family mortgage loans	6,843,302		8,584,239
Total unpaid principal balance	7,531,224		9,315,995
Premiums	169,493		208,281
Discounts	(1,328)		(1,636)
Hedging basis adjustments (2)	17,700		26,114
Total mortgage loans held for portfolio (3)	7,717,089		9,548,754
Allowance for credit losses on mortgage loans	(248)		(248)
Mortgage loans held for portfolio, net	\$ 7,716,841	\$	9,548,506

- (1) Medium-term is defined as a term of 15 years or less.
- (2) Represents the unamortized balance of the mortgage purchase commitments' market values at the time of settlement. The market value of the commitment is included in the basis of the mortgage loan and amortized accordingly.
- (3) Excludes accrued interest receivable of (in thousands) \$24,129 and \$30,109 at June 30, 2021 and December 31, 2020.

Table 5.2 - Mortgage Loans Held for Portfolio by Collateral/Guarantee Type (in thousands)

	 June 30, 2021	De	December 31, 2020	
Conventional mortgage loans	\$ 7,371,386	\$	9,133,942	
Federal Housing Administration (FHA) mortgage loans	 159,838		182,053	
Total unpaid principal balance	\$ 7,531,224	\$	9,315,995	

Table 5.3 - Members, Including Any Known Affiliates that are Members of the FHLB, and Former Members Selling Five Percent or more of Total Unpaid Principal (dollars in millions)

		June 3	0, 2021			Decembe	r 31, 2020
	Pr	incipal	% of Total		Pr	incipal	% of Total
Union Savings Bank	\$	1,998	27 %	Union Savings Bank	\$	2,826	30 %
Guardian Savings Bank FSB		567	8	Guardian Savings Bank FSB		796	9

Credit Risk Exposure

The FHLB manages credit risk exposure for conventional mortgage loans primarily though conservative underwriting and purchasing loans with characteristics consistent with favorable expected credit performance and by applying various credit enhancements.

Credit Enhancements. The conventional mortgage loans under the MPP are supported by some combination of credit enhancements (primary mortgage insurance (PMI), supplemental mortgage insurance (SMI) and the Lender Risk Account (LRA), including pooled LRA for those members participating in an aggregated MPP pool). These credit enhancements apply after a homeowner's equity is exhausted. Beginning in February 2011, the FHLB discontinued the use of SMI for all new loan purchases and replaced it with expanded use of the LRA. The LRA is funded by the FHLB upfront as a portion of the purchase proceeds. The LRA is recorded in other liabilities in the Statement of Condition. Excess funds from the LRA are released to the member in accordance with the terms of the Master Commitment Contract, which is typically after five years, subject to performance of the related loan pool. The LRA established for a pool of loans is limited to only covering losses of that specific pool of loans. Because the FHA makes an explicit guarantee on FHA mortgage loans, the FHLB does not require any credit enhancements on these loans beyond primary mortgage insurance.

Table 5.4 - Changes in the LRA (in thousands)

	Six Months Ended				
	J	June 30, 2021			
LRA at beginning of year	\$	246,435			
Additions		5,327			
Claims		(3)			
Scheduled distributions		(4,569)			
LRA at end of period	\$	247,190			

Cir Months Ended

Mortgage Loans Forbearance Plans. In response to the COVID-19 pandemic, which has caused economic strain on many home loan borrowers, the FHLB's mortgage loan servicers may grant a forbearance period to borrowers who have had COVID-19 related hardships regardless of the payment status of the loan at the time of the request. Based on the most recent information received from mortgage servicers, as of June 30, 2021, there was approximately (in thousands) \$44,378 in unpaid principal balance of conventional mortgage loans under a forbearance plan as a result of COVID-19, which represented one percent of conventional mortgage loans held for portfolio.

Payment Status of Mortgage Loans. The key credit quality indicator for conventional mortgage loans is payment status, which allows the FHLB to monitor the migration of past due loans. Past due loans are those where the borrower has failed to make a full payment of principal and interest within one month of its due date. Although certain loans have been granted a forbearance period as noted above, there has been no change in the terms of the loan. Accordingly, when a borrower fails to make timely payments of principal and/or interest for loans under forbearance, they are considered past due. Table 5.5 presents the payment status of conventional mortgage loans. As of June 30, 2021, (in thousands) \$6,139 in unpaid principal balance of conventional loans under forbearance had a current payment status, (in thousands) \$3,649 was 30 to 59 days past due, (in thousands) \$4,758 was 60 to 89 days past due, and (in thousands) \$29,832 was greater than 90 days past due.

Table 5.5 - Credit Quality Indicator of Conventional Mortgage Loans (in thousands)

	June 30, 2021							
		Origin	•					
Payment status, at amortized cost:		Prior to 2017	2017 to June 30, 2021		Total			
Past due 30-59 days	\$	17,455	\$ 9,987	\$	27,442			
Past due 60-89 days		5,836	4,059		9,895			
Past due 90 days or more		20,074	23,004		43,078			
Total past due mortgage loans		43,365	37,050		80,415			
Current mortgage loans		3,136,125	4,339,425		7,475,550			
Total conventional mortgage loans	\$	3,179,490	\$ 4,376,475	\$	7,555,965			

December 31, 2020						
	Total					
36	\$ 35,848					
553	14,798					
21_	64,572					
10	115,218					
37	9,249,976					
47 5	\$ 9,365,194					
,0 ,5 ,9 ,5						

Other delinquency statistics include loans in process of foreclosure, serious delinquency rates, loans past due 90 days or more and still accruing interest, and non-accrual loans. Table 5.6 presents other delinquency statistics of mortgage loans.

Table 5.6 - Other Delinquency Statistics (dollars in thousands)

		June 30, 2021										
Amortized Cost:	Conv	entional MPP Loans	F	HA Loans		Total						
In process of foreclosure (1)	\$	4,393	\$	406	\$	4,799						
Serious delinquency rate (2)		0.57 %		2.44 %		0.61 %						
Past due 90 days or more still accruing interest (3)	\$	37,820	\$	3,930	\$	41,750						
Loans on non-accrual status	\$	6,316	\$	_	\$	6,316						

	December 31, 2020							
Amortized Cost:	Conv	ventional MPP Loans	F	HA Loans		Total		
In process of foreclosure (1)	\$	5,031	\$	617	\$	5,648		
Serious delinquency rate (2)		0.69 %		3.28 %		0.74 %		
Past due 90 days or more still accruing interest (3)	\$	58,881	\$	5,961	\$	64,842		
Loans on non-accrual status	\$	6,721	\$		\$	6,721		

- (1) Includes loans where the decision of foreclosure or a similar alternative such as pursuit of deed-in-lieu has been reported. During the six months ended June 30, 2021 and year ended December 31, 2020, there were foreclosure moratoriums enacted in response to the COVID-19 pandemic.
- (2) Loans that are 90 days or more past due or in the process of foreclosure (including past due or current loans in the process of foreclosure) expressed as a percentage of the total loan portfolio class.
- (3) Each conventional loan past due 90 days or more still accruing interest is on a schedule/scheduled monthly settlement basis and contains one or more credit enhancements. Loans that are well secured and in the process of collection as a result of remaining credit enhancements and schedule/scheduled settlement are not placed on non-accrual status.

The FHLB did not have any real estate owned at June 30, 2021 or December 31, 2020.

Evaluation of Current Expected Credit Losses

Mortgage Loans - FHA. The FHLB invests in fixed-rate mortgage loans secured by one-to-four family residential properties insured by the FHA. The FHLB expects to recover any losses from such loans from the FHA. Any losses from these loans that are not recovered from the FHA would be due to a claim rejection by the FHA and, as such, would be recoverable from the selling participating financial institutions. Therefore, the FHLB only has credit risk for these loans if the seller or servicer fails to pay for losses not covered by the FHA insurance. As a result, the FHLB did not record an allowance for credit losses on its FHA insured mortgage loans. Furthermore, due to the insurance, none of these mortgage loans have been placed on non-accrual status.

Mortgage Loans - Conventional MPP. Conventional loans are evaluated collectively when similar risk characteristics exist; loans that do not share risk characteristics with other pools are removed from the collective evaluation and evaluated for expected credit losses on an individual basis. For loans with similar risk characteristics, the FHLB determines the allowance for credit losses through analyses that include consideration of various loan portfolio and collateral-related characteristics, such as past performance, current conditions, and reasonable and supportable forecasts of expected economic conditions. The FHLB uses a model that employs a variety of methods, such as projected cash flows to estimate expected credit losses over the life of the loans. This model relies on a number of inputs, such as both current and forecasted property values and interest rates as well as historical borrower behavior experience. The FHLB's calculation of expected credit losses includes a forecast of home prices over the entire contractual terms of its conventional loans rather than a reversion to historical home price trends after an initial forecast period. The FHLB also incorporates associated credit enhancements to determine estimated expected credit losses.

Certain conventional loans may be evaluated for credit losses by using the practical expedient for collateral dependent assets. A mortgage loan is considered collateral dependent if repayment is expected to be provided by the sale of the underlying property, that is, if it is considered likely that the borrower will default. The FHLB may estimate the fair value of this collateral by either applying an appropriate loss severity rate, using third-party estimates, or using a property valuation model. The expected credit loss of a collateral dependent mortgage loan is equal to the difference between the amortized cost of the loan and the estimated

fair value of the collateral, less estimated selling costs. The FHLB will either reserve for these estimated losses or record a direct charge-off of the loan balance, if certain triggering criteria are met. Expected recoveries of prior charge-offs, if any, are included in the allowance for credit losses.

The FHLB also assesses other qualitative factors in its estimation of loan losses for the collectively evaluated population. This amount represents a subjective management judgment, based on facts and circumstances that exist as of the reporting date, which is intended to cover other expected losses that may not otherwise be captured in the methodology described above.

Allowance for Credit Losses on Conventional Mortgage Loans. The FHLB established an allowance for credit losses on its conventional mortgage loans held for portfolio. The following table presents a rollforward of the allowance for credit losses on conventional mortgage loans.

Table 5.7 - Allowance for Credit Losses on Conventional Mortgage Loans (in thousands)

	Th	Three Months Ended June 30,				
		2021	2	2020		
Balance, beginning of period	\$	248	\$	297		
Net charge offs				(33)		
Balance, end of period	\$	248	\$	264		
*						
· •						
•	s	ix Months F	Ended Jun	e 30,		
		ix Months E		e 30,		
Balance, beginning of period						
		2021	2	2020		
Balance, beginning of period		2021	2	711		

Note 6 - Derivatives and Hedging Activities

Nature of Business Activity

The FHLB is exposed to interest rate risk primarily from the effect of interest rate changes on its interest-earning assets and on the interest-bearing liabilities that finance these assets. The goal of the FHLB's interest-rate risk management strategy is not to eliminate interest-rate risk, but to manage it within appropriate limits. To mitigate the risk of loss, the FHLB has established policies and procedures, which include guidelines on the amount of exposure to interest rate changes it is willing to accept. In addition, the FHLB monitors the risk to its interest income, net interest margin and average maturity of interest-earning assets and interest-bearing liabilities. The FHLB uses derivatives when they are considered to be the most cost-effective alternative to achieve the FHLB's financial and risk management objectives. See Note 7 - Derivatives and Hedging Activities in the FHLB's 2020 Annual Report on Form 10-K for additional information on the FHLB's derivative transactions.

The FHLB transacts its derivatives with large banks and major broker-dealers. Some of these banks and broker-dealers or their affiliates buy, sell, and distribute Consolidated Obligations. Derivative transactions may be executed either with a counterparty, referred to as uncleared derivatives, or cleared through a Futures Commission Merchant (i.e., clearing agent) with a Derivative Clearing Organization, referred to as cleared derivatives. Once a derivative transaction has been accepted for clearing by a Derivative Clearing Organization (Clearinghouse), the executing counterparty is replaced with the Clearinghouse. The FHLB is not a derivative dealer and does not trade derivatives for short-term profit.

Financial Statement Effect and Additional Financial Information

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

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

Table 6.1 - Fair Value of Derivative Instruments (in thousands)

Derivative Liabilities
\$ 111,378
,
2,440
_
6
2,446
113,824
(111,435)
\$ 2,389
_

	December 31, 2020						
Denivotivos designeted os feir valve hadeing instrumentos	Notional Amount of Derivatives		Derivative Assets		e Derivat Liabilit		
Derivatives designated as fair value hedging instruments:	ф	10 455 503	Ф	252	Ф	1.00 1.71	
Interest rate swaps	\$	10,477,703	\$	272	\$	163,174	
Derivatives not designated as hedging instruments:							
Interest rate swaps		13,267,539		691		2,563	
Interest rate swaptions		2,175,000		713		_	
Mortgage delivery commitments		137,352		1,056			
Total derivatives not designated as hedging instruments		15,579,891		2,460		2,563	
Total derivatives before adjustments	\$	26,057,594		2,732		165,737	
Netting adjustments and cash collateral (1)				213,156		(161,924)	
Total derivative assets and total derivative liabilities			\$	215,888	\$	3,813	

⁽¹⁾ Amounts represent the application of the netting requirements that allow the FHLB to settle positive and negative positions, and also cash collateral, including accrued interest, held or placed by the FHLB with the same clearing agent and/or counterparty. Cash collateral posted, including accrued interest, was (in thousands) \$323,868 and \$375,390 at June 30, 2021 and December 31, 2020. Cash collateral received, including accrued interest, was (in thousands) \$810 and \$310 at June 30, 2021 and December 31, 2020.

Table 6.2 presents the impact of qualifying fair value hedging relationships on net interest income as well as the total interest income (expense) by product.

Table 6.2 - Impact of Fair Value Hedging Relationships on Net Interest Income (in thousands)

	Three Months Ended June 30, 2021						
	Advances			Available-for- Sale Securities		Consolidated Bonds	
Total interest income (expense) recorded in the Statements of Income	\$	31,371	\$	344	\$	(86,589)	
Impact of Fair Value Hedging Relationships							
Interest rate swaps:							
Net interest settlements	\$	(27,851)	\$	(2,829)	\$	269	
Gain (loss) on derivatives		(2,194)		(11,891)		(451)	
Gain (loss) on hedged items		(993)		11,295		445	
Effect on net interest income	\$	(31,038)	\$	(3,425)	\$	263	

Effect on net interest income

	Three Months Ended June 30, 2020						
		Advances		vailable-for- ale Securities	Consolidated Bonds		
Total interest income (expense) recorded in the Statements of Income	\$	158,437	\$	619	\$	(129,808)	
Impact of Fair Value Hedging Relationships							
Interest rate swaps:							
Net interest settlements	\$	(19,243)	\$	(524)	\$	429	
Gain (loss) on derivatives		(7,608)		(1,019)		17	
Gain (loss) on hedged items		9,736		1,218		103	
Effect on net interest income	\$	(17,115)	\$	(325)	\$	549	
		G! 35		F 1 1 7 4		2004	
		Six Mo		Ended June 3			
		Advances		vailable-for- de Securities	(Consolidated Bonds	
Total interest income (expense) recorded in the Statements of Income	\$	72,531	\$	1,679	\$	(182,775)	
Impact of Fair Value Hedging Relationships							
Interest rate swaps:							
Net interest settlements	\$	(60,695)	\$	(3,708)	\$	520	
Gain (loss) on derivatives		146,420		4,716		(826)	
Gain (loss) on hedged items		(145,802)		(4,479)		815	
Effect on net interest income	\$	(60,077)	\$	(3,471)	\$	509	
		Six Mo	nths	s Ended June 3	0, 2	020	
		Advances		vailable-for- ale Securities	(Consolidated Bonds	
Total interest income (expense) recorded in the Statements of Income	\$	330,604	\$	4,015	\$	(315,795)	
Impact of Fair Value Hedging Relationships							
Interest rate swaps:							
Net interest settlements	\$	(20,957)	\$	(798)	\$	813	
Gain (loss) on derivatives		(411,919)		(12,202)		2,540	
Gain (loss) on hedged items		400,200		12,013		(2,443)	

(32,676) \$

(987) \$

910

Table 6.3 presents the cumulative basis adjustments on hedged items designated as fair value hedges and the related amortized cost of the hedged items.

Table 6.3 - Cumulative Basis Adjustments for Fair Value Hedges (in thousands)

			June 30, 2021		
	Advances	Av	vailable-for-Sale Securities	Cons	olidated Bonds
Amortized cost of hedged asset or liability (1)	\$ 8,342,700	\$	1,931,506	\$	295,869
Fair value hedging adjustments					
Basis adjustments for active hedging relationships included in amortized cost	\$ 211,082	\$	7,291	\$	1,270
Basis adjustments for discontinued hedging relationships included in amortized cost	1,288		370		_
Total amount of fair value hedging basis adjustments	\$ 212,370	\$	7,661	\$	1,270
			ecember 31, 2020		

	December 31, 2020					
		Advances	A	vailable-for-Sale Securities	Co	onsolidated Bonds
Amortized cost of hedged asset or liability (1)	\$	10,483,218	\$	286,869	\$	132,852
Fair value hedging adjustments	•					-
Basis adjustments for active hedging relationships included in amortized cost	\$	356,624	\$	11,751	\$	2,086
Basis adjustments for discontinued hedging relationships included in amortized cost		1,549		389		
Total amount of fair value hedging basis adjustments	\$	358,173	\$	12,140	\$	2,086

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

Table 6.4 presents net gains (losses) recorded in non-interest income (loss) on derivatives not designated as hedging instruments.

Table 6.4 - Net Gains (Losses) Recorded in Non-interest Income (Loss) on Derivatives Not Designated as Hedging Instruments (in thousands)

		Three Months	End	ed June 30,
		2021		2020
Derivatives not designated as hedging instruments:				
Economic hedges:				
Interest rate swaps	\$	8,066	\$	769
Interest rate swaptions		(3,375)		(1,561)
Forward rate agreements		_		(6,051)
Net interest settlements		(44,587)		(26,715)
Mortgage delivery commitments		3,804		(500)
Total net gains (losses) related to derivatives not designated as hedging instruments		(36,092)		(34,058)
Price alignment amount (1)		13		86
Net gains (losses) on derivatives and hedging activities	\$	(36,079)	\$	(33,972)
		Six Months E	nded	l June 30,
	_	Six Months E	nded	1 June 30, 2020
Derivatives not designated as hedging instruments:	_		nded	
Derivatives not designated as hedging instruments: Economic hedges:	_		ndec	
	\$		nded 	
Economic hedges:	\$	2021		2020
Economic hedges: Interest rate swaps	\$	148,846		(366,232) 90,516
Economic hedges: Interest rate swaps Interest rate swaptions	\$	148,846		(366,232) 90,516 (31,935)
Economic hedges: Interest rate swaps Interest rate swaptions Forward rate agreements	\$	148,846 414		(366,232) 90,516 (31,935)
Economic hedges: Interest rate swaps Interest rate swaptions Forward rate agreements Net interest settlements	\$	148,846 414 — (88,795)		(366,232) 90,516 (31,935) (37,997) 16,594
Economic hedges: Interest rate swaps Interest rate swaptions Forward rate agreements Net interest settlements Mortgage delivery commitments	\$	148,846 414 — (88,795) 540		(366,232) 90,516 (31,935) (37,997)

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

Credit Risk on Derivatives

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

For uncleared derivatives, the degree of credit risk depends on the extent to which master netting arrangements are included in these contracts to mitigate the risk. The FHLB requires collateral agreements on its uncleared derivatives with the collateral delivery threshold set to zero.

For cleared derivatives, the Clearinghouse is the FHLB's counterparty. The Clearinghouse notifies the clearing agent of the required initial and variation margin and the clearing agent in turn notifies the FHLB. The FHLB utilizes two Clearinghouses for all cleared derivative transactions, LCH Ltd. and CME Clearing. At both Clearinghouses, variation margin is characterized as daily settlement payments, while initial margin is considered to be collateral. The requirement that the FHLB post initial and variation margin through the clearing agent, to the Clearinghouse, exposes the FHLB to credit risk if the clearing agent or the Clearinghouse fails to meet its obligations. The use of cleared derivatives is intended to mitigate credit risk exposure because a central counterparty is substituted for individual counterparties and collateral/payments for changes in the value of cleared derivatives is posted daily through a clearing agent. On the Statements of Cash Flows, the variation margin cash payments, or daily settlement payments, are included in net change in derivative and hedging activities, as an operating activity.

For cleared derivatives, the Clearinghouse determines initial margin requirements and generally credit ratings are not factored into the initial margin. However, clearing agents may require additional initial margin to be posted based on credit considerations, including, but not limited to, credit rating downgrades. At June 30, 2021, the FHLB was not required to post additional initial margin by its clearing agents based on credit considerations.

Offsetting of Derivative Assets and Derivative Liabilities

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

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

Table 6.5 presents separately the fair value of derivative instruments meeting or not meeting netting requirements, including the related collateral. At June 30, 2021 and December 31, 2020, the FHLB did not receive or pledge any non-cash collateral. Any over-collateralization under an individual clearing agent and/or counterparty level is not included in the determination of the net unsecured amount.

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

		June 30, 2021									
		Derivative Instrum Requi									
	G	Gross Recognized Amount	N	Gross Amount of etting Adjustments nd Cash Collateral		Derivative Instruments Not Meeting Netting Requirements (F)	D	Total Derivative Assets and Total Perivative Liabilities			
Derivative Assets:											
Uncleared	\$	2,244	\$	(2,211)	\$	2,200	\$	2,233			
Cleared		149		213,834		_		213,983			
Total							\$	216,216			
Derivative Liabilities:											
Uncleared	\$	108,121	\$	(105,738)	\$	6	\$	2,389			
Cleared		5,697		(5,697)		_		_			

2,389

		December 31, 2020									
	Derivat	ive Instrum Requi		Meeting Netting nts							
		ecognized ount	Net	Gross Amount of Netting Adjustments and Cash Collateral		Derivative Instruments Not Meeting Netting Requirements (F)	_ D	Total Derivative Assets and Total Derivative Liabilities			
Derivative Assets:											
Uncleared	\$	1,047	\$	(1,047)	\$	1,056	\$	1,056			
Cleared		629		214,203		_		214,832			
Total							\$	215,888			
Derivative Liabilities:											
Uncleared	\$	161,633	\$	(157,820)	\$	_	\$	3,813			
Cleared		4,104		(4,104)		_		<u>—</u>			
Total							\$	3,813			

⁽¹⁾ Represents mortgage delivery commitments that are not subject to an enforceable netting agreement.

Note 7 - Deposits

Total

Table 7.1 - Deposits (in thousands)

	Ju	ne 30, 2021	Dece	mber 31, 2020
Interest-bearing:				
Demand and overnight	\$	1,236,705	\$	1,190,508
Term		85,150		123,675
Other		14,565		13,019
Total interest-bearing deposits	\$	1,336,420	\$	1,327,202

Note 8 - Consolidated Obligations

Table 8.1 - Consolidated Discount Notes Outstanding (dollars in thousands)

	1	Book Value	Prin	cipal Amount	Weighted Average Interest Rate (1)
June 30, 2021	\$	21,180,119	\$	21,180,728	0.02 %
December 31, 2020	\$	27,500,244	\$	27,502,730	0.11 %

⁽¹⁾ Represents an implied rate without consideration of concessions.

Table 8.2 - Consolidated Bonds Outstanding by Original Contractual Maturity (dollars in thousands)

	June 30), 2021	December	31, 2020
Year of Original Contractual Maturity	Amount	Weighted Average Interest Rate	Amount	Weighted Average Interest Rate
Due in 1 year or less	\$ 19,735,345	0.51 %	\$ 18,676,595	0.72 %
Due after 1 year through 2 years	2,506,080	2.22	2,728,885	2.38
Due after 2 years through 3 years	2,880,580	2.05	3,388,120	2.09
Due after 3 years through 4 years	1,886,000	2.04	1,793,405	2.21
Due after 4 years through 5 years	1,532,000	1.58	1,910,000	1.45
Thereafter	3,116,000	2.26	3,454,000	2.39
Total principal amount	31,656,005	1.10	31,951,005	1.32
Premiums	34,886		43,235	
Discounts	(18,732)		(21,403)	
Hedging adjustments	1,270		2,086	
Fair value option valuation adjustment and accrued interest	4,683		21,388	
Total	\$ 31,678,112		\$ 31,996,311	

Table 8.3 - Consolidated Bonds Outstanding by Call Features (in thousands)

	June 30, 2021			ember 31, 2020
Principal Amount of Consolidated Bonds:		_		
Non-callable	\$	27,395,005	\$	26,539,005
Callable		4,261,000		5,412,000
Total principal amount	\$	31,656,005	\$	31,951,005

Table 8.4 - Consolidated Bonds Outstanding by Original Contractual Maturity or Next Call Date (in thousands)

Year of Original Contractual Maturity or Next Call Date	J	une 30, 2021	December 31, 2020		
Due in 1 year or less	\$	23,996,345	\$	22,968,595	
Due after 1 year through 2 years		2,481,080		2,823,885	
Due after 2 years through 3 years		1,875,580		2,452,120	
Due after 3 years through 4 years		1,209,000		1,253,405	
Due after 4 years through 5 years		556,000		728,000	
Thereafter		1,538,000		1,725,000	
Total principal amount	\$	31,656,005	\$	31,951,005	

Table 8.5 - Consolidated Bonds by Interest-rate Payment Type (in thousands)

Ju	ne 30, 2021	Dec	ember 31, 2020
		·	_
\$	23,656,005	\$	21,312,005
	8,000,000		10,639,000
\$	31,656,005	\$	31,951,005
	\$ \$	8,000,000	\$ 23,656,005 \$ 8,000,000

Note 9 - Affordable Housing Program (AHP)

The FHLBank Act requires each FHLBank to establish an AHP. Each FHLBank provides subsidies in the form of direct grants and below-market interest rate AHP Advances to members who use the funds to assist in the purchase, construction, or rehabilitation of housing for very low-, low-, and moderate-income households. Each FHLBank is required to contribute to its AHP the greater of 10 percent of its previous year's income subject to assessment, or the prorated sum required to ensure the aggregate contribution by the FHLBanks is no less than \$100 million for each year. For purposes of the AHP calculation, income subject to assessment is defined as net income before assessments, plus interest expense related to mandatorily redeemable capital stock. The FHLB accrues AHP expense monthly based on its income subject to assessment. The FHLB reduces the AHP liability as members use subsidies.

Table 9.1 - Analysis of AHP Liability (in thousands)

Balance at December 31, 2020	\$ 110,772
Assessments (current year additions)	2,142
Subsidy uses, net	 (11,190)
Balance at June 30, 2021	\$ 101,724

Note 10 - Capital

Table 10.1 - Capital Requirements (dollars in thousands)

	June 30, 2021					December 31, 2020			
	R	Minimum Requirement		Actual	F	Minimum Requirement		Actual	
Risk-based capital	\$	658,569	\$	4,028,675	\$	539,321	\$	3,964,353	
Capital-to-assets ratio (regulatory)		4.00 %		6.84 %		4.00 %		6.07 %	
Regulatory capital	\$	2,354,885	\$	4,028,675	\$	2,611,850	\$	3,964,353	
Leverage capital-to-assets ratio (regulatory)		5.00 %		10.26 %		5.00 %		9.11 %	
Leverage capital	\$	2,943,606	\$	6,043,013	\$	3,264,812	\$	5,946,530	

Restricted Retained Earnings. At June 30, 2021 and December 31, 2020 the FHLB had (in thousands) \$505,136 and \$501,321 in restricted retained earnings. These restricted retained earnings are not available to pay dividends but are available to absorb unexpected losses, if any, that an FHLBank may experience.

Table 10.2 - Mandatorily Redeemable Capital Stock Rollforward (in thousands)

Balance, December 31, 2020	\$ 19,454
Capital stock subject to mandatory redemption reclassified from equity	61,003
Repurchase/redemption of mandatorily redeemable capital stock	 (66,738)
Balance, June 30, 2021	\$ 13,719

Table 10.3 - Mandatorily Redeemable Capital Stock by Contractual Year of Redemption (in thousands)

Contractual Year of Redemption	ractual Year of Redemption June 30, 2021		Decen	nber 31, 2020
Year 1	\$	1,243	\$	156
Year 2		803		1,124
Year 3		894		2,167
Year 4		255		391
Year 5		1,667		3,142
Thereafter (1)		_		650
Past contractual redemption date due to remaining activity (2)		8,857		11,824
Total	\$	13,719	\$	19,454

⁽¹⁾ Represents mandatorily redeemable capital stock resulting from a Finance Agency rule effective February 19, 2016, that made captive insurance companies ineligible for FHLB membership. Captive insurance companies that were admitted as FHLB members prior to September 12, 2014, had their membership terminated no later than February 19, 2021. The related mandatorily redeemable capital stock is not required to be redeemed until five years after the member's termination.

⁽²⁾ Represents mandatorily redeemable capital stock that is past the end of the contractual redemption period because there is activity outstanding to which the mandatorily redeemable capital stock relates.

Note 11 - Accumulated Other Comprehensive Income (Loss)

The following tables summarize the changes in accumulated other comprehensive income (loss) for the three and six months ended June 30, 2021 and 2020.

Table 11.1 - Accumulated Other Comprehensive Income (Loss) (in thousands)

	Net unrealized gains (losses) on available-for-sale securities		ension and stretirement benefits	other c	accumulated omprehensive ome (loss)
BALANCE, MARCH 31, 2020	\$ (535) \$	(16,201)	\$	(16,736)
Other comprehensive income before reclassification:					
Net unrealized gains (losses)	22				22
Reclassifications from other comprehensive income (loss) to net income:					
Amortization - pension and postretirement benefits		_	581		581
Net current period other comprehensive income (loss)	22		581		603
BALANCE, JUNE 30, 2020	\$ (513)) \$	(15,620)	\$	(16,133)
BALANCE, MARCH 31, 2021	\$ 7,405	\$	(19,027)	\$	(11,622)
Other comprehensive income before reclassification:					
Net unrealized gains (losses)	8,960		_		8,960
Reclassifications from other comprehensive income (loss) to net income:					
Amortization - pension and postretirement benefits			676		676
Net current period other comprehensive income (loss)	8,960		676		9,636
BALANCE, JUNE 30, 2021	\$ 16,365	\$	(18,351)	\$	(1,986)
	Net unrealized gains (losses) on available-for-sale securities		ension and stretirement benefits	other c inc	accumulated omprehensive ome (loss)
BALANCE, DECEMBER 31, 2019	gains (losses) on available-for-sale	pos	stretirement	other c	omprehensive
BALANCE, DECEMBER 31, 2019 Other comprehensive income before reclassification:	gains (losses) on available-for-sale securities	pos	stretirement benefits	other c inc	omprehensive ome (loss)
	gains (losses) on available-for-sale securities	pos \$	stretirement benefits	other c inc	omprehensive ome (loss)
Other comprehensive income before reclassification:	gains (losses) on available-for-sale securities \$ 370	pos \$	stretirement benefits	other c inc	omprehensive ome (loss) (16,394)
Other comprehensive income before reclassification: Net unrealized gains (losses) Reclassifications from other comprehensive income (loss)	gains (losses) on available-for-sale securities \$ 370	pos \$	stretirement benefits	other c inc	omprehensive ome (loss) (16,394)
Other comprehensive income before reclassification: Net unrealized gains (losses) Reclassifications from other comprehensive income (loss) to net income: Amortization - pension and postretirement benefits Net current period other comprehensive income (loss)	gains (losses) on available-for-sale securities \$ 370 (883	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,144 1,144	s	0mprehensive ome (loss) (16,394) (883) 1,144 261
Other comprehensive income before reclassification: Net unrealized gains (losses) Reclassifications from other comprehensive income (loss) to net income: Amortization - pension and postretirement benefits	gains (losses) on available-for-sale securities \$ 370 (883	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(16,764) — — — — — — — — ————————————————————	other c inc	omprehensive ome (loss) (16,394) (883)
Other comprehensive income before reclassification: Net unrealized gains (losses) Reclassifications from other comprehensive income (loss) to net income: Amortization - pension and postretirement benefits Net current period other comprehensive income (loss)	gains (losses) on available-for-sale securities \$ 370 (883	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,144 1,144	s	0mprehensive ome (loss) (16,394) (883) 1,144 261
Other comprehensive income before reclassification: Net unrealized gains (losses) Reclassifications from other comprehensive income (loss) to net income: Amortization - pension and postretirement benefits Net current period other comprehensive income (loss) BALANCE, JUNE 30, 2020	gains (losses) on available-for-sale securities \$ 370 (883) (883) \$ (513)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,144 1,144 (15,620)	s	0mprehensive ome (loss) (16,394) (883) 1,144 261 (16,133)
Other comprehensive income before reclassification: Net unrealized gains (losses) Reclassifications from other comprehensive income (loss) to net income: Amortization - pension and postretirement benefits Net current period other comprehensive income (loss) BALANCE, JUNE 30, 2020 BALANCE, DECEMBER 31, 2020	gains (losses) on available-for-sale securities \$ 370 (883) (883) \$ (513)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,144 1,144 (15,620)	s	0mprehensive ome (loss) (16,394) (883) 1,144 261 (16,133)
Other comprehensive income before reclassification: Net unrealized gains (losses) Reclassifications from other comprehensive income (loss) to net income: Amortization - pension and postretirement benefits Net current period other comprehensive income (loss) BALANCE, JUNE 30, 2020 BALANCE, DECEMBER 31, 2020 Other comprehensive income before reclassification:	gains (losses) on available-for-sale securities \$ 370 (883)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,144 1,144 (15,620)	s	0mprehensive ome (loss) (16,394) (883) 1,144 261 (16,133) (14,985)
Other comprehensive income before reclassification: Net unrealized gains (losses) Reclassifications from other comprehensive income (loss) to net income: Amortization - pension and postretirement benefits Net current period other comprehensive income (loss) BALANCE, JUNE 30, 2020 BALANCE, DECEMBER 31, 2020 Other comprehensive income before reclassification: Net unrealized gains (losses) Reclassifications from other comprehensive income (loss)	gains (losses) on available-for-sale securities \$ 370 (883)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,144 1,144 (15,620)	s	0mprehensive ome (loss) (16,394) (883) 1,144 261 (16,133) (14,985)
Other comprehensive income before reclassification: Net unrealized gains (losses) Reclassifications from other comprehensive income (loss) to net income: Amortization - pension and postretirement benefits Net current period other comprehensive income (loss) BALANCE, JUNE 30, 2020 BALANCE, DECEMBER 31, 2020 Other comprehensive income before reclassification: Net unrealized gains (losses) Reclassifications from other comprehensive income (loss) to net income:	gains (losses) on available-for-sale securities \$ 370 (883)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,144 1,144 (15,620) (19,703)	s	0mprehensive ome (loss) (16,394) (883) 1,144 261 (16,133) (14,985) 11,647

Note 12 - Pension and Postretirement Benefit Plans

Qualified Defined Benefit Multi-employer Plan. The FHLB participates in the Pentegra Defined Benefit Plan for Financial Institutions (Pentegra Defined Benefit Plan), a tax-qualified defined benefit pension plan. Under the Pentegra Defined Benefit Plan, contributions made by one participating employer may be used to provide benefits to employees of other participating employers because assets contributed by an employer are not segregated in a separate account or restricted to provide benefits only to employees of that employer. Also, in the event a participating employer is unable to meet its contribution requirements, the required contributions for the other participating employers could increase proportionately. The Pentegra Defined Benefit Plan covers all officers and employees of the FHLB who meet certain eligibility requirements. Contributions to the Pentegra Defined Benefit Plan charged to compensation and benefit expense were \$1,697,000 and \$1,518,000 in the three months ended June 30, 2021 and 2020, respectively, and \$3,393,000 and \$3,036,000 in the six months ended June 30, 2021 and 2020.

Qualified Defined Contribution Plan. The FHLB also participates in the Fidelity Defined Contribution Plan, a tax-qualified, defined contribution plan. The FHLB contributes a percentage of the participants' compensation by making a matching contribution equal to a percentage of voluntary employee contributions, subject to certain IRS limitations. The FHLB contributed \$339,000 and \$324,000 in the three months ended June 30, 2021 and 2020, respectively, and \$942,000 and \$862,000 in the six months ended June 30, 2021 and 2020.

Non-qualified Supplemental Defined Benefit Retirement Plan (Defined Benefit Retirement Plan). The FHLB maintains a non-qualified, unfunded defined benefit plan. The plan ensures that participants receive the full amount of benefits to which they would have been entitled under the qualified defined benefit plan in the absence of limits on benefit levels imposed by the IRS. There are no funded plan assets. The FHLB has established a grantor trust, which is included in held-to-maturity securities on the Statements of Condition, to meet future benefit obligations and current payments to beneficiaries.

Postretirement Benefits Plan. The FHLB also sponsors a Postretirement Benefits Plan that includes health care and life insurance benefits for eligible retirees. Future retirees are eligible for the postretirement benefits plan if they were hired prior to August 1, 1990, are age 55 or older, and their age plus years of continuous service at retirement are greater than or equal to 80. Spouses are covered subject to required contributions. There are no funded plan assets that have been designated to provide postretirement benefits.

Three Months Ended June 20

Table 12.1 - Net Periodic Benefit Cost (in thousands)

I hree Months Ended June 30,								
Defined Benefit Retirement Plan			Postretirement Benefits Plan					
2021		2020		2021		2020		
\$	326	\$	290	\$	2	\$	2	
	274		331		29		35	
	663		581		13		_	
\$	1,263	\$	1,202	\$	44	\$	37	
		Six	Months F	'ndad I	uno 30			
		\$ 326 274 663	\$ 326 \$ 274 663 \$ 1,263 \$	Retirement Plan 2021 2020 \$ 326 \$ 290 274 331 663 581 \$ 1,263 \$ 1,202	Retirement Plan 2021 2020 2 \$ 326 \$ 290 \$ 274 331 663 581 \$ 1,263 \$ 1,202 \$	Retirement Plan Plan 2021 2020 2021 \$ 326 \$ 290 \$ 2 274 331 29 663 581 13	Retirement Plan Plan 2021 2020 2021 \$ 326 \$ 290 \$ 2 \$ 274 331 29 663 581 13 13 \$ 1,263 \$ 1,202 \$ 44 \$	

	Defined Benefit Retirement Plan					Postretirement Benefits Plan		
	2021		2020		2021			2020
Net Periodic Benefit Cost								
Service cost	\$	652	\$	565	\$	4	\$	4
Interest cost		548		662		58		71
Amortization of net loss		1,326		1,144		26		_
Net periodic benefit cost	\$	2,526	\$	2,371	\$	88	\$	75

For the Defined Benefit Retirement Plan and the Postretirement Benefits Plan, the related service cost is recorded as part of Non-Interest Expense - Compensation and Benefits on the Statements of Income. The non-service related components of interest cost and amortization of net loss are recorded as Non-Interest Expense - Other in the Statements of Income.

Note 13 - Segment Information

The FHLB has identified two primary operating segments based on its method of internal reporting: Traditional Member Finance and the MPP. These segments reflect the FHLB's two primary Mission Asset Activities and the manner in which they are managed from the perspective of development, resource allocation, product delivery, pricing, credit risk and operational administration. The segments identify the principal ways the FHLB provides services to member stockholders.

Table 13.1 - Financial Performance by Operating Segment (in thousands)

Table 13.1 - Financial Ferror mance by Operacing	Three Months Ended June 30,						
		onal Member Finance		MPP	,	Total	
<u>2021</u>							
Net interest income (loss)	\$	80,863	\$	(14,712)	\$	66,151	
Non-interest income (loss)		(43,205)		1,365		(41,840)	
Non-interest expense		21,342		2,569		23,911	
Income (loss) before assessments		16,316		(15,916)		400	
Affordable Housing Program assessments		1,643		(1,592)		51	
Net income (loss)	\$	14,673	\$	(14,324)	\$	349	
<u>2020</u>							
Net interest income	\$	139,314	\$	10,281	\$	149,595	
Non-interest income (loss)		(7,378)		(7,647)		(15,025)	
Non-interest expense		21,354		2,664		24,018	
Income (loss) before assessments		110,582		(30)		110,552	
Affordable Housing Program assessments		11,145		(3)		11,142	
Net income (loss)	\$	99,437	\$	(27)	\$	99,410	
	·						
		Six I	Month	s Ended June 30,			
		Six I onal Member Finance	Month	s Ended June 30, MPP		Total	
<u>2021</u>		onal Member	Month			Total	
2021 Net interest income (loss)		onal Member	Month \$		\$	Total 142,057	
	1	onal Member Finance		MPP	\$		
Net interest income (loss)	1	onal Member Finance		MPP (26,188)	\$	142,057	
Net interest income (loss) Non-interest income (loss)	1	168,245 (74,231)		MPP (26,188) 826	\$	142,057 (73,405)	
Net interest income (loss) Non-interest income (loss) Non-interest expense	1	168,245 (74,231) 42,066		MPP (26,188) 826 5,368	\$	142,057 (73,405) 47,434	
Net interest income (loss) Non-interest income (loss) Non-interest expense Income (loss) before assessments	1	168,245 (74,231) 42,066 51,948		MPP (26,188) 826 5,368 (30,730)	\$	142,057 (73,405) 47,434 21,218	
Net interest income (loss) Non-interest income (loss) Non-interest expense Income (loss) before assessments Affordable Housing Program assessments	\$	168,245 (74,231) 42,066 51,948 5,215	\$	MPP (26,188) 826 5,368 (30,730) (3,073)		142,057 (73,405) 47,434 21,218 2,142	
Net interest income (loss) Non-interest income (loss) Non-interest expense Income (loss) before assessments Affordable Housing Program assessments Net income (loss)	\$	168,245 (74,231) 42,066 51,948 5,215	\$	MPP (26,188) 826 5,368 (30,730) (3,073)		142,057 (73,405) 47,434 21,218 2,142	
Net interest income (loss) Non-interest income (loss) Non-interest expense Income (loss) before assessments Affordable Housing Program assessments Net income (loss) 2020	\$	168,245 (74,231) 42,066 51,948 5,215 46,733	\$	MPP (26,188) 826 5,368 (30,730) (3,073) (27,657)	\$	142,057 (73,405) 47,434 21,218 2,142 19,076	
Net interest income (loss) Non-interest income (loss) Non-interest expense Income (loss) before assessments Affordable Housing Program assessments Net income (loss) 2020 Net interest income	\$	168,245 (74,231) 42,066 51,948 5,215 46,733	\$	MPP (26,188) 826 5,368 (30,730) (3,073) (27,657)	\$	142,057 (73,405) 47,434 21,218 2,142 19,076	
Net interest income (loss) Non-interest income (loss) Non-interest expense Income (loss) before assessments Affordable Housing Program assessments Net income (loss) 2020 Net interest income Non-interest income (loss)	\$	168,245 (74,231) 42,066 51,948 5,215 46,733 203,963 (30,958)	\$	(26,188) 826 5,368 (30,730) (3,073) (27,657) 27,747 46,622	\$	142,057 (73,405) 47,434 21,218 2,142 19,076 231,710 15,664	
Net interest income (loss) Non-interest income (loss) Non-interest expense Income (loss) before assessments Affordable Housing Program assessments Net income (loss) 2020 Net interest income Non-interest income (loss) Non-interest expense	\$	168,245 (74,231) 42,066 51,948 5,215 46,733 203,963 (30,958) 42,461	\$	MPP (26,188) 826 5,368 (30,730) (3,073) (27,657) 27,747 46,622 5,837	\$	142,057 (73,405) 47,434 21,218 2,142 19,076 231,710 15,664 48,298	

Table 13.2 - Asset Balances by Operating Segment (in thousands)

		Assets							
	Traditional Member Finance		MPP		Total				
June 30, 2021	\$ 47,713,254	\$	11,158,865	\$	58,872,119				
December 31, 2020	53,356,209		11,940,030		65,296,239				

Note 14 - Fair Value Disclosures

The fair value amounts recorded on the Statements of Condition and presented in the related note disclosures have been determined by the FHLB using available market information and the FHLB's best judgment of appropriate valuation methods. GAAP defines fair value as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date (i.e., an exit price). The fair values reflect the FHLB's judgment of how a market participant would estimate the fair values.

Fair Value Hierarchy. 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. The inputs are evaluated and an overall level for the measurement is determined. This overall level is an indication of how market observable the fair value measurement is.

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

Level 1 Inputs - Quoted prices (unadjusted) for identical assets or liabilities in an active market that the reporting entity can access on the measurement date. An active market for the asset or liability is a market in which the transactions for the asset or liability occur with sufficient frequency and volume to provide pricing information on an ongoing basis.

Level 2 Inputs - Inputs other than quoted prices within Level 1 that are observable inputs for the asset or liability, either directly or indirectly. If the asset or liability has a specified (contractual) term, a Level 2 input must be observable for substantially the full term of the asset or liability. Level 2 inputs include the following: (1) quoted prices for similar assets or liabilities in active markets; (2) quoted prices for identical or similar assets or liabilities in markets that are not active; (3) inputs other than quoted prices that are observable for the asset or liability (e.g., interest rates and yield curves that are observable at commonly quoted intervals, and implied volatilities); and (4) inputs that are derived principally from or corroborated by observable market data by correlation or other means.

Level 3 Inputs - Unobservable inputs for the asset or liability, which are supported by limited to no market activity and reflect the FHLB's own assumptions.

The FHLB 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 financial assets or liabilities. The FHLB did not have any transfers of assets or liabilities into or out of Level 3 of the fair value hierarchy during the six months ended June 30, 2021 or 2020.

Table 14.1 presents the net carrying value, fair value, and fair value hierarchy of financial assets and liabilities of the FHLB. The FHLB records trading securities, available-for-sale securities, derivative assets, derivative liabilities, certain Advances and certain Consolidated Obligations at fair value on a recurring basis, and on occasion, certain mortgage loans held for portfolio on a nonrecurring basis. The FHLB records all other financial assets and liabilities at amortized cost. Refer to Table 14.2 for further details about the financial assets and liabilities held at fair value on either a recurring or nonrecurring basis.

Table 14.1 - Fair Value Summary (in thousands)

June 30, 2021

				0, = 0 = 1			
		Fair Value					
Financial Instruments	Net Carrying Value	Total	Level 1	Level 2	Level 3	Netting Adjustments and Cash Collateral (1)	
Assets:							
Cash and due from banks	\$ 135,003	\$ 135,003	\$ 135,003	\$ —	\$ —	\$ —	
Interest-bearing deposits	374,147	374,147		374,147	_		
Securities purchased under agreements to resell	436,500	436,500	_	436,500	_	_	
Federal funds sold	6,175,000	6,175,000		6,175,000	_	_	
Trading securities	9,327,467	9,327,467	_	9,327,467	_	_	
Available-for-sale securities	1,947,871	1,947,871	_	1,947,871			
Held-to-maturity securities	8,835,019	8,947,316	_	8,947,316	_	_	
Advances (2)	23,586,541	23,785,148	_	23,785,148	_	_	
Mortgage loans held for portfolio	7,716,841	7,959,301	_	7,916,827	42,474	_	
Accrued interest receivable	96,727	96,727	_	96,727			
Derivative assets	216,216	216,216	_	4,593	_	211,623	
Liabilities:							
Deposits	1,336,420	1,336,365	_	1,336,365	_	_	
Consolidated Obligations:							
Discount Notes (3)	21,180,119	21,179,813	_	21,179,813	_	_	
Bonds (4)	31,678,112	32,212,241	_	32,212,241	_	_	
Mandatorily redeemable capital stock	13,719	13,719	13,719	_	_	_	
Accrued interest payable	67,258	67,258	_	67,258	_	_	
Derivative liabilities	2,389	2,389	_	113,824	_	(111,435)	

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

⁽²⁾ Includes (in thousands) \$26,066 of Advances recorded under the fair value option at June 30, 2021.

⁽³⁾ Includes (in thousands) \$2,866,877 of Consolidated Obligation Discount Notes recorded under the fair value option at June 30, 2021.

⁽⁴⁾ Includes (in thousands) \$2,295,683 of Consolidated Obligation Bonds recorded under the fair value option at June 30, 2021.

Derivative liabilities

	December 31, 2020							
Financial Instruments Assets:	Net Carrying Value	Total	Level 1	Level 2	Level 3	Netting Adjustments and Cash Collateral ⁽¹⁾		
Cash and due from banks	\$ 2,984,073	\$ 2,984,073	\$ 2,984,073	\$	\$ —	\$ —		
Interest-bearing deposits	555,104	555,104	_	555,104	_	_		
Securities purchased under agreements to resell	1,818,268	1,818,268	_	1,818,268	_	_		
Federal funds sold	4,240,000	4,240,000	_	4,240,000	_	_		
Trading securities	10,488,124	10,488,124	_	10,488,124	_	_		
Available-for-sale securities	291,587	291,587	_	291,587	_	_		
Held-to-maturity securities	9,648,171	9,792,136	_	9,792,136	_			
Advances (2)	25,362,003	25,573,785	_	25,573,785	_	_		
Mortgage loans held for portfolio	9,548,506	9,861,802	_	9,798,019	63,783			
Accrued interest receivable	113,701	113,701	_	113,701				
Derivative assets	215,888	215,888	_	2,732	_	213,156		
Liabilities:								
Deposits	1,327,202	1,327,267	_	1,327,267	_			
Consolidated Obligations:								
Discount Notes	27,500,244	27,501,296	_	27,501,296	_	_		
Bonds (3)	31,996,311	32,785,647	_	32,785,647				
Mandatorily redeemable capital stock	19,454	19,454	19,454	_	_	<u>—</u>		
Accrued interest payable	77,521	77,521	_	77,521		_		

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

3,813

165,737

(161,924)

(2) Includes (in thousands) \$27,202 of Advances recorded under the fair value option at December 31, 2020.

3,813

(3) Includes (in thousands) \$2,262,388 of Consolidated Obligation Bonds recorded under the fair value option at December 31, 2020.

Summary of Valuation Methodologies and Primary Inputs.

The valuation methodologies and primary inputs used to develop the measurement of fair value for assets and liabilities that are measured at fair value on a recurring or nonrecurring basis in the Statement of Condition are disclosed in Note 15 - Fair Value Disclosures in the FHLB's 2020 Annual Report on Form 10-K. There have been no significant changes in the valuation methodologies during 2021.

Fair Value Measurements.

Table 14.2 presents the fair value of financial assets and liabilities that are recorded on a recurring or nonrecurring basis at June 30, 2021 and December 31, 2020, by level within the fair value hierarchy. The FHLB records nonrecurring fair value adjustments to reflect partial write-downs on certain mortgage loans.

Table 14.2 - Fair Value Measurements (in thousands)

Table 14.2 - Pair Value Measurements (III	,	Fair Value	Measurements	at June 30, 20	21
Recurring fair value measurements -	Total	Level 1	Level 2	Level 3	Netting Adjustments and Cash Collateral (1)
Trading securities:					
U.S. Treasury obligations	\$ 7,536,087	\$ —	\$ 7,536,087	\$ —	\$ —
GSE obligations	1,791,111	_	1,791,111	_	_
U.S. obligation single-family MBS	269	<u> </u>	269		_
Total trading securities	9,327,467		9,327,467		_
Available-for-sale securities:	, ,		, ,		
U.S. Treasury obligations	1,663,680	_	1,663,680	_	_
GSE obligations	138,163	_	138,163	_	<u>—</u>
GSE multi-family MBS	146,028	_	146,028	_	_
Total available-for-sale securities	1,947,871		1,947,871		
Advances	26,066	_	26,066	_	_
Derivative assets:					
Interest rate related	214,016	_	2,393	_	211,623
Mortgage delivery commitments	2,200	_	2,200	_	_
Total derivative assets	216,216	_	4,593	_	211,623
Total assets at fair value	\$11,517,620	\$ —	\$11,305,997	\$ —	\$ 211,623
Recurring fair value measurements - Liabilities					
Consolidated Obligations:					
Discount Notes	\$ 2,866,877	\$ —	\$ 2,866,877	\$ —	\$ —
Bonds	2,295,683	_	2,295,683	_	_
Total Consolidated Obligations	5,162,560	_	5,162,560	_	_
Derivative liabilities:					
Interest rate related	2,383		113,818		(111,435)
Mortgage delivery commitments	6		6		
Total derivative liabilities	2,389		113,824	_	(111,435)
Total liabilities at fair value	\$ 5,164,949	\$ —	\$ 5,276,384	\$ —	\$ (111,435)

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

Mortgage loans held for portfolio

]	Fair Value Mea	asurements at I	December 31, 2	.020
	Total	Level 1	Level 2	Level 3	Netting Adjustments and Cash Collateral (1)
Recurring fair value measurements - Assets					
Trading securities:					
U.S. Treasury obligations	\$ 8,362,211	\$ —	\$ 8,362,211	\$ —	\$ —
GSE obligations	2,125,580	_	2,125,580	_	_
U.S. obligation single-family MBS	333		333		
Total trading securities	10,488,124	_	10,488,124	_	_
Available-for-sale securities:					
GSE obligations	142,402	_	142,402	_	_
GSE multi-family MBS	149,185		149,185		_
Total available-for-sale securities	291,587	_	291,587	_	_
Advances	27,202	_	27,202	_	_
Derivative assets:					
Interest rate related	214,832	_	1,676	_	213,156
Mortgage delivery commitments	1,056		1,056		
Total derivative assets	215,888		2,732		213,156
Total assets at fair value	\$ 11,022,801	<u> </u>	\$ 10,809,645	<u>\$</u>	\$ 213,156
Recurring fair value measurements - Liabilities					
Consolidated Obligation Bonds	\$ 2,262,388	\$ —	\$ 2,262,388	\$ —	\$ —
Derivative liabilities:					
Interest rate related	3,813		165,737		(161,924)
Total derivative liabilities	3,813	_	165,737		(161,924)
Total liabilities at fair value	\$ 2,266,201	<u>\$</u>	\$ 2,428,125	\$	\$ (161,924)
Nonrecurring fair value measurements - Assets (2)					
3.6 . 1 1.11.0 .0.1	φ 100	ф	Φ	Φ 100	

Fair Value Massurements at December 31, 2020

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

-- \$

-- \$

108

108 \$

\$

(2) The fair value information presented is as of the date the fair value adjustment was recorded during the year ended December 31, 2020.

Fair Value Option. The fair value option provides an irrevocable option to elect fair value as an alternative measurement for selected financial assets, financial liabilities, unrecognized firm commitments, and written loan commitments not previously carried at fair value. It requires a company to display the fair value of those assets and liabilities for which it has chosen to use fair value on the face of the Statements of Condition. Fair value is used for both the initial and subsequent measurement of the designated assets, liabilities and commitments, with the changes in fair value recognized in net income. If elected, interest income and interest expense on Advances and Consolidated Obligations carried at fair value are recognized based solely on the contractual amount of interest due or unpaid. Any transaction fees or costs are immediately recognized into other non-interest income or other non-interest expense.

The FHLB has elected the fair value option for certain financial instruments that either do not qualify for hedge accounting or may be at risk for not meeting hedge effectiveness requirements. These fair value elections were made primarily in an effort to mitigate the potential income statement volatility that can arise from economic hedging relationships in which the carrying value of the hedged item is not adjusted for changes in fair value.

Table 14.3 presents net gains (losses) recognized in earnings related to financial assets and liabilities in which the fair value option was elected during the three and six months ended June 30, 2021 and 2020.

Table 14.3 – Fair Value Option - Financial Assets and Liabilities (in thousands)

		Three Months 1	Ende	ed June 30,	 Six Months Ended June 30,					
Net Gains (Losses) from Changes in Fair Value Recognized in Earnings	2021			2020	2021	2020				
Advances	\$	165	\$	31	\$ (1,135)	\$	178			
Consolidated Discount Notes		55		13,864	50		(162)			
Consolidated Bonds		2,382		11,846	7,592		(25,105)			
Total net gains (losses)	\$	2,602	\$	25,741	\$ 6,507	\$	(25,089)			

For instruments recorded under the fair value option, the related contractual interest income, contractual interest expense and the discount amortization on Discount Notes are recorded as part of net interest income on the Statements of Income. The remaining changes in fair value for instruments in which the fair value option has been elected are recorded as "Net gains (losses) on financial instruments held under fair value option" in the Statements of Income, except for changes in fair value related to instrument specific credit risk, which are recorded in accumulated other comprehensive income in the Statement of Condition. The FHLB has determined that none of the remaining changes in fair value were related to instrument-specific credit risk for the six months ended June 30, 2021 or 2020. In determining that there has been no change in instrument-specific credit risk period to period, the FHLB primarily considered the following factors:

- The FHLB is a federally chartered GSE, and as a result of this status, the FHLB's Consolidated Obligations have historically received the same credit ratings as the government bond credit rating of the United States, even though they are not obligations of the United States and are not guaranteed by the United States.
- The FHLB is jointly and severally liable with the other 10 FHLBanks for the payment of principal and interest on all Consolidated Obligations of each of the other FHLBanks.

The following table reflects the difference between the aggregate unpaid principal balance outstanding and the aggregate fair value for Advances and Consolidated Obligations for which the fair value option has been elected.

Table 14.4 – Aggregate Unpaid Balance and Aggregate Fair Value (in thousands)

			June 30, 2021						December 31, 2020					
	i P	ggregate Unpaid rincipal Balance		Aggregate Fair Value		Aggregate Fair Value Over/ (Under) Aggregate Unpaid Principal Balance		Aggregate Unpaid Principal Balance		gregate ir Value	Aggregate Fair Value Over/ (Under) Aggregate Unpaid Principal Balance			
Advances	\$	26,500	\$	26,066	\$	(434)	\$	26,500	\$	27,202	\$	702		
Consolidated Discount Notes	2	2,867,100	2	2,866,877		(223)						_		
Consolidated Bonds	2	2,291,000	2	2,295,683		4,683	2	2,241,000	2	,262,388		21,388		

Note 15 - Commitments and Contingencies

Off-Balance Sheet Commitments. Table 15.1 represents off-balance sheet commitments at June 30, 2021 and December 31, 2020. The FHLB has deemed it unnecessary to record any liabilities for credit losses on these commitments at June 30, 2021 and December 31, 2020.

Table 15.1 - Off-Balance Sheet Commitments (in thousands)

		June 30, 2021		December 31, 2020					
Notional Amount	Expire within one year	Expire after one year	Total	Expire within one year	Expire after one year	Total			
Standby Letters of Credit	\$ 33,932,607	\$1,233,417	\$35,166,024	\$ 27,741,220	\$1,071,029	\$28,812,249			
Commitments for standby bond purchases	15,905	14,600	30,505	_	35,030	35,030			
Commitments to fund additional Advances	63	_	63	_	_	_			
Commitments to purchase mortgage loans	513,208	_	513,208	137,352	_	137,352			
Unsettled Consolidated Bonds, principal amount (1)	500,000	_	500,000	_	_	_			
Unsettled Consolidated Discount Notes, principal amount (1)	100,000	_	100,000	321,551	_	321,551			

⁽¹⁾ Expiration is based on settlement period rather than underlying contractual maturity of Consolidated Obligations.

The carrying value of guarantees related to Standby Letters of Credit are recorded in other liabilities and were (in thousands) \$7,396 and \$8,675 at June 30, 2021 and December 31, 2020.

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

Note 16 - Transactions with Other FHLBanks

The FHLB notes all transactions with other FHLBanks on the face of its financial statements. Occasionally, the FHLB loans short-term funds to and borrows short-term funds from other FHLBanks. These loans and borrowings are transacted at then current market rates when traded. There were no such loans or borrowings outstanding at June 30, 2021 or December 31, 2020. The following table details the average daily balance of lending and borrowing between the FHLB and other FHLBanks for the six months ended June 30, 2021 and 2020.

Table 16.1 - Lending and Borrowing Between the FHLB and Other FHLBanks (in thousands)

	Aver	Average Daily Balances for the Six Months Ended June 30,					
	2	021	2020				
Loans to other FHLBanks	\$	_	\$	9,890			

In addition, the FHLB may, from time to time, assume the outstanding primary liability for Consolidated Obligations of another FHLBank (at then current market rates on the day when the transfer is traded) rather than issuing new debt for which the FHLB is the primary obligor. The FHLB then becomes the primary obligor on the transferred debt. There were no Consolidated Obligations transferred to the FHLB during the six months ended June 30, 2021 or 2020. The FHLB had no Consolidated Obligations transferred to other FHLBanks during these periods.

Note 17 - Transactions with Stockholders

As a cooperative, the FHLB's capital stock is owned by its members, by former members that retain the stock as provided in the FHLB's Capital Plan and by nonmember institutions that have acquired members and must retain the stock to support Advances or other activities with the FHLB. All Advances are issued to members and all mortgage loans held for portfolio are purchased from members. The FHLB also maintains demand deposit accounts for members, primarily to facilitate settlement activities that are directly related to Advances and mortgage loan purchases. Additionally, the FHLB may enter into interest rate swaps with its stockholders. The FHLB may not invest in any equity securities issued by its stockholders and it has not purchased any MBS securitized by, or other direct long-term investments in, its stockholders.

For financial statement purposes, the FHLB defines related parties as those members with more than 10 percent of the voting interests of the FHLB capital stock outstanding. Federal statute prescribes the voting rights of members in the election of both Member and Independent directors. For Member directorships, the Finance Agency designates the number of Member directorships in a given year and an eligible voting member may vote only for candidates seeking election in its respective state. For Independent directors, the FHLB's Board of Directors nominates candidates to be placed on the ballot in an at-large election. For both Member and Independent director elections, a member is entitled to vote one share of required capital stock, subject to a statutory limitation, for each applicable directorship. Under this limitation, the total number of votes that a member may cast is limited to the average number of shares of the FHLB's capital stock that were required to be held by all members in that state as of the record date for voting. Nonmember stockholders are not eligible to vote in director elections. Due to these statutory limitations, no member owned more than 10 percent of the voting interests of the FHLB at June 30, 2021 or December 31, 2020.

All transactions with stockholders are entered into in the ordinary course of business. Finance Agency regulations require the FHLB to offer the same pricing for Advances and other services to all members regardless of asset or transaction size, charter type, or geographic location. However, the FHLB may, in pricing its Advances, distinguish among members based upon its assessment of the credit and other risks to the FHLB of lending to any particular member or upon other reasonable criteria that may be applied equally to all members. The FHLB's policies and procedures require that such standards and criteria be applied consistently and without discrimination to all members applying for Advances.

Transactions with Directors' Financial Institutions. In the ordinary course of its business, the FHLB provides products and services to members whose officers or directors serve as directors of the FHLB (Directors' Financial Institutions). Finance Agency regulations require that transactions with Directors' Financial Institutions be made on the same terms as those with any other member. The following table reflects balances with Directors' Financial Institutions for the items indicated below. The FHLB had no MBS or derivatives transactions with Directors' Financial Institutions at June 30, 2021 or December 31, 2020.

Table 17.1 - Transactions with Directors' Financial Institutions (dollars in millions)

		June 3	0, 2021	December 31, 2020			
	Balance		% of Total (1)	Balance		% of Total (1)	
Advances	\$	6,137	26.3 %	\$	7,048	28.2 %	
MPP		162	2.2		159	1.7	
Regulatory capital stock		647	23.7		467	17.6	

⁽¹⁾ Percentage of total principal (Advances), unpaid principal balance (MPP), and regulatory capital stock.

Concentrations. The following table shows regulatory capital stock balances, outstanding Advance principal balances, and unpaid principal balances of mortgage loans held for portfolio of stockholders holding five percent or more of regulatory capital stock and includes any known affiliates that are members of the FHLB.

Table 17.2 - Stockholders Holding Five Percent or more of Regulatory Capital Stock (dollars in millions)

	Regulatory Capital Stock				dvance	MPP Unpaid		
<u>June 30, 2021</u>	Ba	Balance % of Total		P	rincipal	Principal Balance		
U.S. Bank, N.A.	\$	437	16 %	\$	3,272	\$	11	
Third Federal Savings & Loan Association		163	6		3,141		34	
Nationwide Life Insurance Company		138	5		2,607		_	

	Re	gulatory C	Capital Stock	A	dvance	MPP Unpaid		
<u>December 31, 2020</u>	Ba	alance	% of Total	P	rincipal	Principal Balance		
U.S. Bank, N.A.	\$	288	11 %	\$	4,273	\$	13	
JPMorgan Chase Bank, N.A.		163	6		_			
Third Federal Savings & Loan Association		137	5		3,443		42	

Nonmember Affiliates. The FHLB has relationships with three nonmember affiliates, the Kentucky Housing Corporation, the Ohio Housing Finance Agency and the Tennessee Housing Development Agency. The FHLB had no investments in or borrowings to any of these nonmember affiliates at June 30, 2021 or December 31, 2020. The FHLB has executed standby bond purchase agreements with the Ohio Housing Finance Agency whereby the FHLB, for a fee, agrees as a liquidity provider if required, to purchase and hold the authority's bonds until the designated marketing agent can find a suitable investor or the housing authority repurchases the bond according to a schedule established by the standby agreement. During the first six months of 2021 and 2020, the FHLB was not required to purchase any bonds under these agreements.

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations.

This document contains forward-looking statements that describe the objectives, expectations, estimates, and assessments of the Federal Home Loan Bank of Cincinnati (the FHLB). These statements use words such as "anticipates," "expects," "believes," "could," "estimates," "may," and "should." By their nature, forward-looking statements relate to matters involving risks or uncertainties, some of which we may not be able to know, control, or completely manage. Actual future results could differ materially from those expressed or implied in forward-looking statements or could affect the extent to which we are able to realize an objective, expectation, estimate, or assessment. Some of the risks and uncertainties that could affect our forward-looking statements include the following:

• the effects of economic, financial, credit, market, and member conditions on our financial condition and results of operations, including changes in economic growth, general liquidity conditions, inflation and deflation, interest rates, interest rate spreads, interest rate volatility, mortgage originations, prepayment activity, housing prices, asset delinquencies, and members' mergers and consolidations, deposit flows, liquidity needs, and loan demand;

- political, national, or world events, including acts of war, civil unrest, terrorism, natural disasters, climate change, pandemics, including the current COVID-19 pandemic, or other catastrophic events, and legislative, regulatory, government, judicial or other developments that could affect us, our members, our counterparties, other Federal Home Loan Banks (FHLBanks) and other government-sponsored enterprises (GSEs), and/or investors in the Federal Home Loan Bank System's (FHLBank System) unsecured debt securities, which are called Consolidated Obligations or Obligations;
- competitive forces, including those related to other sources of funding available to members, to purchases of mortgage loans, and to our issuance of Consolidated Obligations;
- the financial results and actions of other FHLBanks that could affect our ability, in relation to the FHLBank System's joint and several liability for Consolidated Obligations, to access the capital markets on favorable terms or preserve our profitability, or could alter the regulations and legislation to which we are subject;
- changes in ratings assigned to FHLBank System Obligations or the FHLB that could raise our funding cost;
- changes in investor demand for Obligations;
- the volatility of market prices, interest rates, credit quality, and other indices that could affect the value of investments and collateral we hold as security for member obligations and/or for counterparty obligations;
- uncertainties relating to the phasing out of the London InterBank Offered Rate (LIBOR) that could impact our mortgage-backed securities (MBS) investments, Advances, Consolidated Obligations, derivatives, and collateral;
- the ability to attract and retain skilled management and other key employees;
- the ability to develop, secure and support technology and information systems that effectively manage the risks we face (including cybersecurity risks);
- the risk of loss arising from failures or interruptions in our ongoing business operations, internal controls, information systems or other operating technologies;
- the ability to successfully manage new products and services; and
- the risk of loss arising from litigation filed against us or one or more other FHLBanks.

We do not undertake any obligation to update any forward-looking statements made in this document.

EXECUTIVE OVERVIEW

The following table presents selected Statement of Condition data, Statement of Income data and financial ratios for the periods indicated.

(Dollars in millions)	June 30, March 31, De 2021 2021		December 31, 2020	September 30, 2020	June 30, 2020
STATEMENT OF CONDITION DATA AT PERIOD END:					
Total assets	\$ 58,872	\$ 60,634	\$ 65,296	\$ 74,077	\$ 90,645
Advances	23,587	24,365	25,362	27,101	48,913
Mortgage loans held for portfolio	7,717	8,599	9,549	10,671	11,704
Investments (1)	27,096	24,209	27,041	34,514	29,533
Consolidated Obligations:					
Discount Notes	21,180	26,873	27,500	26,668	44,324
Bonds	31,678	27,798	31,997	41,432	39,339
Total Consolidated Obligations	52,858	54,671	59,497	68,100	83,663
Mandatorily redeemable capital stock	14	15	19	17	19
Capital:					
Capital stock - putable	2,718	2,748	2,641	2,935	3,813
Retained earnings	1,297	1,309	1,304	1,282	1,247
Accumulated other comprehensive loss	(2)	(12)	(15)	(12)	(16)
Total capital	4,013	4,045	3,930	4,205	5,044
STATEMENT OF INCOME DATA FOR THE					
QUARTER:		.			
Net interest income	\$ 66	\$ 76	\$ 81	\$ 93	\$ 149
Non-interest income (loss)	(42)	(32)	(15)	(7)	(15)
Non-interest expense	24	23	22	22	24
Affordable Housing Program assessments		2	4	7	11
Net income	<u>\$</u>	\$ 19	\$ 40	\$ 57	\$ 99
FINANCIAL RATIOS FOR THE QUARTER:	2 00 0/	2 00 0/	2.00.0/	2 00 0/	2.50.0/
Weighted average dividend rate (2)	2.00 %	2.00 %	2.00 %	2.00 %	2.50 %
Return on average equity	0.03	1.96	3.93	4.70	7.12
Return on average assets		0.12	0.23	0.26	0.37
Net interest margin (3)	0.43	0.49	0.48	0.43	0.58
Average equity to average assets	6.59	6.13	5.97	5.61	5.22
Regulatory capital ratio (4)	6.84	6.72	6.07	5.72	5.60
Operating expense to average assets (5)	0.112	0.121	0.104	0.079	0.063

⁽¹⁾ Investments include interest bearing deposits in banks, securities purchased under agreements to resell, Federal funds sold, trading securities, available-for-sale securities, and held-to-maturity securities.

⁽²⁾ Weighted average dividend rates are dividends paid divided by the average number of shares of capital stock eligible for dividends.

⁽³⁾ Net interest margin is net interest income as a percentage of average earning assets.

⁽⁴⁾ Regulatory capital ratio is period-end regulatory capital (capital stock, mandatorily redeemable capital stock and retained earnings) as a percentage of period-end total assets.

⁽⁵⁾ Operating expenses comprise compensation and benefits and other operating expenses, which are included in non-interest expense.

Recent Developments

COVID-19 Pandemic

The global outbreak of COVID-19 has impacted communities and businesses worldwide, including those in the Fifth District. The effects of COVID-19 continue to evolve, and the full impact and duration of the virus are unknown. Throughout the COVID-19 pandemic, we have continued to fulfill our mission of providing robust access to a key source of readily available and competitively priced wholesale funding to member financial institutions and supporting our commitment to affordable housing and community investment, while maintaining strong capital and liquidity positions. We continue to monitor the progression of COVID-19 and are committed to assisting members and their communities as impacts related to the pandemic continue to unfold.

Financial Condition

Mission Asset Activity

Mission Assets, which we define as Advances, Letters of Credit, and total MPP are the primary means by which we fulfill our mission with direct connections to members. We regularly monitor our balance sheet concentration of Mission Asset Activity. One measure we use to assess mission achievement is our Primary Mission Asset ratio, which measures the sum of average Advances and mortgage loans as a percentage of average Consolidated Obligations (adjusted for certain high-quality liquid assets, as permitted by regulation). In the first six months of 2021, the Primary Mission Asset ratio averaged 69 percent, slightly below the Finance Agency's preferred ratio of 70 percent. In assessing overall mission achievement, we also consider supplemental sources of Mission Asset Activity, the most significant of which is Letters of Credit issued for the benefit of members.

The following table summarizes our Mission Asset Activity.

		Ending Bala	nces	Average Balances						
	June	ne 30, December 31,		Six Months	Year Ended December 31,					
(In millions)	2021	2020	2020	2021	2020	2020				
Mission Asset Activity:										
Advances (principal)	\$ 23,378	\$ 48,407	\$ 25,007	\$ 24,836	\$ 52,515	\$ 42,917				
MPP:										
Mortgage loans held for portfolio (principal)	7,531	11,424	9,316	8,393	11,584	10,995				
Mandatory Delivery Contracts (notional)	513	133	137	141	539	338				
Total MPP	8,044	11,557	9,453	8,534	12,123	11,333				
Letters of Credit (notional)	35,166	22,381	28,812	33,630	17,102	20,141				
Total Mission Asset Activity	\$ 66,588	\$ 82,345	\$ 63,272	\$ 67,000	\$ 81,740	\$ 74,391				

At June 30, 2021, 60 percent of members held Mission Asset Activity, which was relatively stable compared to prior periods. The balance of Mission Asset Activity was \$66.6 billion at June 30, 2021, an increase of \$3.3 billion (five percent) from year-end 2020, which was driven by higher Letters of Credit balances. The increase in Letters of Credit was primarily due to members using them to secure elevated levels of public unit deposits. We normally earn fees on Letters of Credit based on the actual average amount of the Letters utilized, which generally is less than the notional amount issued. Advance principal balances decreased \$1.6 billion (seven percent) from year-end 2020. Advance balances have remained low in the first six months of 2021 due to increased liquidity in the financial markets and increased deposit levels at member institutions.

Average principal Advance balances for the six months ended June 30, 2021 decreased \$27.7 billion (53 percent) compared to the same period of 2020. Advance balances in the first quarter of 2020 were significantly higher as members sought additional liquidity during the onset of the COVID-19 pandemic. However, most of these Advances matured or prepaid by the end of 2020 and as noted above, the demand for Advances has remained low. Advance balances are often volatile due to members' ability to quickly, normally on the same day, increase or decrease their amount of Advances. We believe providing members flexibility in their funding levels helps support their asset-liability management needs and is a key benefit of membership.

We believe that reduced demand for Advances from many of our members will, or is likely to, continue in the near future. Our business is designed to support significant changes in asset levels without having to undergo material changes in staffing, operations, risk practices, or general resource needs. A key reason for this scalability is that our Capital Plan provides for additional capital when Advances grow and the opportunity for us to retire capital when Advances decline, thereby acting, along with our efficient operating expenses, to preserve competitive profitability.

The MPP principal balance fell \$1.8 billion (19 percent) from year-end 2020. During the first six months of 2021, we purchased \$0.4 billion of mortgage loans, while principal reductions of \$2.2 billion reflected the continuing high levels of mortgage loan refinance activity. We have not yet been able to fully replace the prepaid mortgage loans with suitable alternatives that provide an acceptable risk/return tradeoff.

Based on earnings in the first six months of 2021, we accrued \$2 million for the Affordable Housing Program (AHP) pool of funds to be available to members in 2022. In addition to the required AHP assessment, we provided voluntary sponsorship of two other housing programs. These programs provided funds to cover accessibility and emergency repairs for special needs and elderly homeowners and funds for the replacement or repair of homes damaged or destroyed by natural disasters within the Fifth District.

Investments

The balance of investments at June 30, 2021 was \$27.1 billion, an increase of \$0.1 billion from year-end 2020. At June 30, 2021, investments included \$8.9 billion of MBS and \$18.2 billion of other investments, which consisted primarily of highly-rated short-term instruments and longer-term U.S. Treasury and GSE obligations held for liquidity. All of our MBS held at June 30, 2021 were issued and guaranteed by Fannie Mae, Freddie Mac or a U.S. agency. MBS balances declined compared to year end due to elevated levels of prepayments of the underlying mortgages as a result of the low interest rate environment. Due to regulatory limitations regarding the purchase of MBS that reference LIBOR, we have not been able to replace the prepaid MBS with suitable alternatives that we believe provide an acceptable risk/return tradeoff.

Investments averaged \$28.2 billion in the first six months of 2021, a decrease of \$5.5 billion (16 percent) from the average balance during the same period of 2020. The decrease in average investments reflected lower liquidity investments needed in light of the reduced Advance demand and lower MBS due to the reasons noted above. Liquidity investments can vary significantly on a daily basis during times of volatility in Advance balances. We maintained a robust amount of asset liquidity throughout the first six months of 2021 across a variety of liquidity measures, as discussed in the "Liquidity Risk" section of "Quantitative and Qualitative Disclosures About Risk Management."

Capital

Capital adequacy surpassed all minimum regulatory capital requirements in the first six months of 2021. The GAAP capital-to-assets ratio at June 30, 2021 was 6.82 percent, while the regulatory capital-to-assets ratio was 6.84 percent. Both ratios exceeded the regulatory required minimum of four percent. Regulatory capital includes mandatorily redeemable capital stock accounted for as a liability under GAAP. GAAP and regulatory capital both increased \$0.1 billion in the first six months of 2021. Retained earnings totaled \$1.3 billion at June 30, 2021, a decrease of less than one percent from year-end 2020.

Results of Operations

Overall Results

Our earnings over time reflect the combination of a stable business model and conservative management of risk. Key factors that can cause significant periodic volatility in our profitability are changes in the level of interest rates, changes in spreads between benchmark interest rates and our short-term funding costs, recognition of net amortization due to accelerated prepayments of mortgage assets, and fair value adjustments related to the use of derivatives and the associated hedged items. The table below summarizes our results of operations.

	Three Months Ended June 30,					x Months I	Year Ended December 31,			
(Dollars in millions)	2	2021		2020		2021		2020		2020
Net income	\$	_	\$	99	\$	19	\$	179	\$	276
Affordable Housing Program assessments				11		2		20		31
Return on average equity (ROE)		0.03 %		7.12 %		0.97 %)	7.04 %		5.78 %
Return on average assets				0.37		0.06		0.36		0.31
Weighted average dividend rate		2.00		2.50		2.00		2.50		2.23
Average short-term interest rates (1)		0.11		0.33		0.13		0.86		0.51
ROE spread to average short-term interest rates		(0.08)		6.79		0.84		6.18		5.27
Dividend rate spread to average short-term interest rates		1.89		2.17		1.87		1.64		1.72

⁽¹⁾ Average short-term interest rates consist of 3-month LIBOR and the Federal funds effective rate.

Net income decreased \$99 million in the three-month comparison period and \$160 million in the six-month comparison period. The decline in profitability in the three months ended June 30, 2021 compared to the same period of 2020 was primarily driven by:

- <u>Advances</u>. Average Advance balances declined 59 percent. Although Advances grew significantly during the onset of
 the COVID-19 pandemic as members sought additional liquidity, balances subsequently fell in 2020 and have
 remained low due to increased liquidity in the financial markets and increased deposit levels at member institutions.
 Additionally, Advance prepayment fees were lower due to a higher amount of member prepayments of Advances in
 the first half of 2020 as interest rates declined.
- Mortgage Assets. The spreads earned on mortgage assets declined due to the accelerated payoff of higher-yielding mortgages at a faster pace than the associated debt funding them. The historically low long-term interest rates led to prepayments occurring faster than the purchases of new mortgage assets, which also resulted in the average balances of mortgage assets declining 30 percent.
- *Fair Value Adjustments*. Unrealized losses on derivatives and instruments held at fair value were higher in the second quarter of 2021 in response to changes in interest rates.

The decline in profitability in the first six months of 2021 compared to the same period of 2020 was primarily driven by the Advances and mortgage assets factors noted for the three-months comparison as well as the following:

• <u>Sales of Swaptions</u>. We sold interest rate swaptions in the first quarter of 2020 in response to changes in interest rates, which resulted in net realized gains of approximately \$69 million before assessments. We did not sell any interest rate swaptions in the first six months of 2021. We use swaptions to hedge market risk exposure associated with holding fixed-rate mortgage assets and may sell them to offset the risk incurred due to changes in interest rates.

In June 2021, we paid stockholders a quarterly dividend at a 2.00 percent annualized rate on their capital investment in our company, which is 1.89 percentage points above second quarter average short-term interest rates.

Effect of Interest Rate Environment

Trends in market interest rates and the resulting shapes of the market yield curves strongly influence the results of operations and profitability because of how they affect members' demand for Mission Asset Activity, spreads on assets, funding costs and decisions in managing the tradeoffs in our market risk/return profile. The following table presents key market interest rates (obtained from Bloomberg L.P.).

					Six Months End			
	Quarter	2 2021	Quarter	1 2021	2021	2020	Year	2020
	Ending	Average	Ending	Average	Average	Average	Ending	Average
Federal funds effective	0.08 %	0.07 %	0.06 %	0.08 %	0.07 %	0.66 %	0.09 %	0.37 %
Secured Overnight Financing Rate (SOFR)	0.05	0.02	0.01	0.04	0.03	0.65	0.09	0.37
3-month LIBOR	0.15	0.16	0.19	0.20	0.18	1.07	0.24	0.65
2-year LIBOR	0.33	0.27	0.29	0.22	0.25	0.75	0.20	0.49
10-year LIBOR	1.44	1.57	1.78	1.35	1.46	1.01	0.93	0.88
2-year U.S. Treasury	0.25	0.17	0.16	0.13	0.15	0.65	0.12	0.39
10-year U.S. Treasury	1.47	1.58	1.74	1.31	1.45	1.03	0.92	0.89
15-year mortgage current coupon (1)	1.23	1.26	1.39	1.05	1.15	1.52	0.71	1.21
30-year mortgage current coupon (1)	1.83	1.87	2.04	1.68	1.77	1.99	1.34	1.69

⁽¹⁾ Current coupon rate of Fannie Mae par MBS indications.

The target overnight Federal funds rate was in the range of zero to 0.25 percent at June 30, 2021, unchanged from March 31, 2021. The low interest rate environment reflects the evolving risks to economic activity lingering from the COVID-19 pandemic.

Average short-term rates were approximately 60 to 90 basis points lower in the first six months of 2021 compared to the same period of 2020 and average mortgage rates decreased by approximately 20 to 35 basis points during that same period. The decline in interest rates negatively impacted income in the first six months of 2021 primarily because of lower earnings generated from investing capital and increased mortgage asset prepayments.

Business Outlook and Risk Management

Other than the updates noted below, our major business strategies, outlook for our business, and risk profiles and management have not changed substantially since our 2020 Annual Report on Form 10-K. "Quantitative and Qualitative Disclosures About Risk Management" provides details on current risk exposures.

Regulatory and Legislative Risk and Significant Developments

Significant regulatory and legislative actions and developments for the period covered by this Report not previously disclosed are summarized below.

Federal Reserve Board Extends Paycheck Protection Program Liquidity Facility: On June 25, 2021, the Federal Reserve Board announced a final extension of its Paycheck Protection Program Liquidity Facility (PPPLF) by an additional month to July 30, 2021. The PPPLF provides collateralized Paycheck Protection Program (PPP) loan liquidity to eligible Federal Reserve member financial institutions in order to facilitate PPP loan originations at such financial institutions. The extension allowed additional processing time for banks, community development financial institutions, and other financial institutions to pledge to the facility any PPP loans approved by the Small Business Administration (SBA) through the June 30, 2021 expiration of the PPP program.

Additional COVID-19 Presidential, Legislative and Regulatory Developments: In light of the COVID-19 pandemic, the federal government and its agencies as well as state governments and agencies, have taken, and may continue to take, actions to provide various forms of relief from, and guidance regarding, the financial, operational, credit, market, and other effects of the pandemic. Some of these may have a direct or indirect impact on us or our members. Many of these actions are temporary in nature. We continue to monitor these actions and guidance as they evolve and to evaluate their potential impact on us.

Affordable Housing and Community Investment: Legislation has been introduced in the U.S. Senate and House of Representatives that, if enacted in its proposed form, would require that the FHLBanks set aside higher percentages of their earnings for their affordable housing and community investment programs than is currently required under law. The FHLBanks are actively monitoring these proposals.

LIBOR Transition: We are planning for the replacement of LIBOR and the establishment of SOFR as the recommended alternative to LIBOR. In March 2021, the Financial Conduct Authority announced that LIBOR will either cease to be provided by any administrator or no longer be representative immediately after December 31, 2021 (or, in the case of some more frequently used U.S. dollar LIBOR settings, immediately after June 30, 2023). Although the Financial Conduct Authority does not expect LIBOR to become unrepresentative before the applicable cessation date and intends to consult on requiring the administrator of LIBOR to continue publishing LIBOR of certain currencies and tenors on a non-representative, synthetic basis for a period after the applicable cessation date, there is no assurance that LIBOR, of any particular currency or tenor, will continue to be published or be representative through any particular date. The market activity in SOFR-linked financial instruments has continued to develop and we have offered SOFR-linked Consolidated Obligations and SOFR-linked Advances on an ongoing basis. In addition, we have been using SOFR-based derivatives to manage interest-rate risk and we have begun purchasing SOFR-linked MBS in the second quarter of 2021.

The following table presents our LIBOR-indexed Advances, investment securities and derivatives at June 30, 2021. At June 30, 2021, all of our variable rate Consolidated Obligations were linked to SOFR.

(In millions)	g on or before 2 30, 2023	Maturing after June 30, 2023		
LIBOR-Indexed Variable Rate Financial Instruments				
Advances by redemption term	\$ 2,329	\$	3,009	
MBS by contractual maturity (1)	 <u> </u>		5,224	
Total principal amount	\$ 2,329	\$	8,233	
Derivatives, notional amount by termination date	\$ 4,816	\$	4,619	

⁽¹⁾ MBS are presented by contractual maturity; however, their expected maturities will likely differ from contractual maturities as borrowers may have the right to call or prepay obligations with or without call or prepayment fees.

The market transition away from LIBOR towards SOFR is gradual and complicated, including the possible development of term structures and credit adjustments to accommodate differences between LIBOR and SOFR and the potential introduction of other alternative reference rates. As such, we are not currently able to predict the ultimate impact of such a transition on our business, financial condition, and results of operations.

ANALYSIS OF FINANCIAL CONDITION

Credit Services

Credit Activity and Advance Composition

The table below shows trends in Advance balances by major programs and in the notional amount of Letters of Credit.

(Dollars in millions)	June 3	0, 2021	March :	31, 2021	Decembe	er 31, 2020	
	Balance	Percent ⁽¹⁾	Balance	Percent ⁽¹⁾	Balance	Percent ⁽¹⁾	
Adjustable/Variable-Rate Indexed:							
LIBOR	\$ 5,338	23 %	\$ 5,433	22 %	\$ 5,611	22 %	
SOFR	118	_	118	1	118	1	
Other	149	1	16		82		
Total	5,605	24	5,567	23	5,811	23	
Fixed-Rate:							
Repurchase based (REPO)	3,942	17	3,787	16	3,780	15	
Regular Fixed-Rate	8,131	35	9,047	37	9,587	38	
Putable (2)	2,607	11	2,657	11	2,657	11	
Amortizing/Mortgage Matched	1,722	7	1,872	8	2,021	8	
Other	1,371	6	1,227	5	1,151	5	
Total	17,773	76	18,590	77	19,196	77	
Total Advances Principal	\$23,378	100 %	\$24,157	100 %	\$25,007	100 %	
Letters of Credit (notional)	\$35,166		\$33,650		\$28,812		

⁽¹⁾ As a percentage of total Advances principal.

Advance principal balances at June 30, 2021 decreased seven percent compared to year-end 2020. Advance balances have remained low since the last half of 2020 as members experienced an inflow of deposits on their balance sheets, while also having access to other liquidity sources as a result of certain government actions related to the pandemic. Letters of Credit increased 22 percent primarily due to members using them to secure elevated levels of public unit deposits.

Advance Usage

In addition to analyzing Advance balances by dollar trends, we monitor the degree to which members use Advances to fund their balance sheets. The following table shows the unweighted, average ratio of each member's Advance balance to its most-recently available figures for total assets.

	June 30, 2021	December 31, 2020
Average Advances-to-assets for members		
Assets less than \$1.0 billion (502 members)	1.59 %	1.99 %
Assets over \$1.0 billion (126 members)	1.64	2.11
All members	1.60	2.01

⁽²⁾ Excludes Putable Advances where the related put options have expired or where the Advance is indexed to a variable-rate. These Advances are classified based on their current terms.

The following tables present principal balances for the five members with the largest Advance borrowings.

(Dollars in millions)

June 30, 202	21			December 31, 2020							
Name	Am	ncipal ount of vances	Percent of Total Principal Amount of Advances	Name	An	rincipal nount of dvances	Percent of Total Principal Amount of Advances				
U.S. Bank, N.A.	\$	3,272	14 %	U.S. Bank, N.A.		4,273	17 %				
Third Federal Savings and Loan Association		3,141	13	Third Federal Savings and Loan Association		3,443	14				
Nationwide Life Insurance Company		2,607	11	Nationwide Life Insurance Company		2,062	8				
Protective Life Insurance Company		2,225	10	Protective Life Insurance Company		1,955	8				
Western-Southern Life Assurance Co.		1,504	6	Western-Southern Life Assurance Co.		1,344	5				
Total of Top 5	\$	12,749	54 %	Total of Top 5	\$	13,077	52 %				

Advance concentration ratios are influenced by, and generally similar to, concentration ratios of financial activity among our Fifth District financial institutions. We believe that having large financial institutions that actively use our Mission Assets augments the value of membership to all members. For example, such activity improves our operating efficiency, increases our earnings and thereby contributions to housing and community investment programs. This activity may enable us to obtain more favorable funding costs, and helps us maintain competitively priced Mission Assets.

Mortgage Loans Held for Portfolio (Mortgage Purchase Program, or MPP)

The table below shows principal purchases and reductions of loans in the MPP for the first six months of 2021. All loans acquired in the first six months of 2021 were conventional loans.

(In millions)	MPI	Principal Principal
Balance at December 31, 2020	\$	9,316
Principal purchases		420
Principal reductions		(2,205)
Balance at June 30, 2021	\$	7,531

We closely track the refinancing incentives of our mortgage assets (including loans in the MPP and MBS) because the option for homeowners to change their principal payments normally represents the largest portion of our market risk exposure and can affect MPP balances. MPP principal paydowns increased in the first six months of 2021 to a 39 percent annual constant prepayment rate, compared to the 30 percent rate for all of 2020, driven by the historically low mortgage rates. Our purchases of new loans were much lower than the level of repayments during the first six months of 2021. Although MPP yields on purchases of new loans continued to offer favorable returns, the lack of volume that met our risk adjusted return criteria along with other balance sheet concentration considerations prevented us from purchasing new loans to fully replace repayments received.

Overall, MPP yields on existing portfolio balances, net of funding and hedging costs, have declined and are expected to remain at lower levels in the short-term due to the accelerated payoff of higher-yielding mortgages at a faster pace than the associated debt funding them. Despite the lower yields on existing MPP balances, the metrics of portfolio return relative to their market and credit risks continue to indicate that the MPP has generated, and can be expected to continue to generate, a profitable long-term, risk-adjusted return.

Investments

The table below presents the ending and average balances of our investment portfolio.

		Six Mon	Year Ended						
(In millions)	June 30, 2021					December 31, 2020			
		Ending Average Balance Balance			Ending Balance	Average Balance			
Liquidity investments	\$	\$ 18,155		18,787	\$	17,285	\$	20,548	
MBS		8,941		9,081		9,756		11,864	
Other investments (1)		_		320	_			459	
Total investments	\$	27,096	\$	28,188	\$	27,041	\$	32,871	

⁽¹⁾ The average balance includes the rights or obligations to cash collateral, which are included in the fair value of derivative assets or derivative liabilities on the Statements of Condition at period end.

Liquidity investments are either short-term (primarily overnight), or longer-term investments that can be easily sold and converted to cash. It is normal for liquidity investments to vary by up to several billion dollars on a daily basis. Liquidity investment levels can vary significantly based on changes in the amount of actual Advances, anticipated demand for Advances, liquidity needs, the availability of acceptable net spreads, and the number of eligible counterparties that meet our unsecured credit risk criteria.

The balance of liquidity investments was higher at June 30, 2021 compared to year-end 2020, as we held \$3.0 billion of our liquidity portfolio as deposits at the Federal Reserve at the end of 2020, which are reflected in cash and due from banks on the Statements of Condition. Also, we purchased additional longer-term U.S. Treasury obligations in the second quarter of 2021, which are held to help meet regulatory liquidity requirements. Under the regulatory requirements, liquidity includes certain high-quality liquid assets, which are defined as U.S. Treasury obligations with remaining maturities of 10 years or less held as trading securities or available-for-sale securities. The average balance of liquidity investments for the six months ended June 30, 2021 fell \$1.8 billion (nine percent) from the average balance for all of 2020 due to lower liquidity investments being needed in light of the reduced Advance demand.

Our overarching strategy for balances of MBS is to keep holdings as close as possible to the regulatory maximum. Finance Agency regulations prohibit us from purchasing MBS if our investment in these securities exceeds three times regulatory capital on the day we intend to purchase the securities. The ratio of MBS to regulatory capital was 2.22 at June 30, 2021. The MBS ratio was lower than normal primarily due to the decline in MBS balances given paydowns in the low interest rate environment and the regulatory limitations regarding the purchase of investments that reference LIBOR. Given these limitations, we have not been able to replace the prepaid MBS with suitable alternatives that we believe provide an acceptable risk/return tradeoff.

The balance of MBS at June 30, 2021 consisted of \$7.8 billion of securities issued by Fannie Mae or Freddie Mac (of which \$5.6 billion were floating-rate securities), and \$1.1 billion of securities issued by Ginnie Mae (which are primarily fixed rate).

The table below shows principal purchases and paydowns of our MBS for the first six months of 2021.

MBS	Principal
\$	9,745
	729
	(1,541)
\$	8,933
	\$ \$

MBS principal paydowns in the first six months of 2021 equated to a 29 percent annual constant prepayment rate, an increase from the 27 percent rate experienced in 2020. The elevated prepayment rates experienced in the first six months of 2021 and all of 2020 is a result of the historically low mortgage rate environment.

Consolidated Obligations

We fund variable-rate assets with Discount Notes (a portion of which may be swapped), adjustable-rate Bonds, and swapped fixed-rate Bonds because they give us the ability to effectively match the underlying rate reset periods embedded in these assets. The balances and composition of our Consolidated Obligations tend to fluctuate with changes in the balances and composition of our assets. In addition, changes in the amount and composition of our funding may be necessary from time to time to meet the days of positive liquidity and asset/liability maturity funding gap requirements discussed in the "Liquidity Risk" section of "Quantitative and Qualitative Disclosures About Risk Management."

The table below presents the ending and average balances of our participations in Consolidated Obligations.

		Six Mont	hs En	ded		Year Ended						
(In millions)		June 30	0, 202	1		December 31, 2020						
	Ending Balance			Average Balance	Ending Balance				verage Balance			
Discount Notes:												
Unswapped	\$	18,314	\$	25,421		\$	27,503	\$	39,478			
Swapped		2,867		805					3,843			
Total par Discount Notes		21,181		26,226			27,503		43,321			
Other items ⁽¹⁾		(1)		(1)			(3)		(37)			
Total Discount Notes		21,180		26,225			27,500		43,284			
Bonds:												
Unswapped fixed-rate		21,070		19,213			18,940		21,288			
Unswapped adjustable-rate (2)		8,000		9,324			10,639		13,394			
Swapped fixed-rate		2,586		1,364			2,372		3,547			
Total par Bonds		31,656		29,901			31,951		38,229			
Other items (1)		22		31			46		68			
Total Bonds		31,678		29,932			31,997		38,297			
Total Consolidated Obligations (3)	\$	52,858	\$	56,157		\$	59,497	\$	81,581			

- (1) Includes unamortized premiums/discounts, fair value option valuation adjustments, hedging and other basis adjustments.
- (2) At June 30, 2021 and December 31, 2020, all unswapped adjustable-rate Bonds were indexed to SOFR.
- (3) The 11 FHLBanks have joint and several liability for the par amount of all of the Consolidated Obligations issued on their behalves. The par amount of the outstanding Consolidated Obligations for all of the FHLBanks was (in millions) \$666,747 and \$746,772 at June 30, 2021 and December 31, 2020, respectively.

The ending balance of Discount Notes at June 30, 2021 declined compared to year-end 2020 due in part to the lower Advance and cash balances. The average balances of Discount Notes and unswapped adjustable-rate Bonds in the first six months of 2021 were significantly lower compared to the averages for all of 2020 due to the growth in short-term and variable-rate Advances in the first quarter of 2020 as members sought additional liquidity during the onset of the COVID-19 pandemic. However, most of these Advances matured or prepaid by the end of 2020 and the demand for Advances has remained low.

The average balance of unswapped fixed-rate Bonds, which typically have initial maturities greater than one year, declined in the first six months of 2021 compared to the average balance in 2020 due to terminating higher coupon fixed-rate Bonds with embedded options as interest rates fell.

Deposits

Total deposits with us are normally a relatively minor source of low-cost funding. Total interest-bearing deposits at June 30, 2021 were \$1.3 billion, similar to the balance at year-end 2020.

Derivatives Hedging Activity and Liquidity

Our use of derivatives is discussed in the "Effect of the Use of Derivatives on Net Interest Income" and "Non-Interest Income (Loss)" sections in "Results of Operations." Liquidity is discussed in the "Liquidity Risk" section in "Quantitative and Qualitative Disclosures About Risk Management."

Capital Resources

The following tables present capital amounts and capital-to-assets ratios, on both a GAAP and regulatory basis. We consider the regulatory ratio to be a better representation of financial leverage than the GAAP ratio because, although the GAAP ratio treats mandatorily redeemable capital stock as a liability, it protects investors in our debt in the same manner as GAAP capital stock and retained earnings.

		Six Mont	ths End	led	Year Ended					
(In millions)		June 3	0, 2021	<u> </u>	December 31, 2020					
	Per	riod End	A	verage	Per	iod End	Average			
GAAP and Regulatory Capital										
GAAP Capital Stock	\$	2,718	\$	2,678	\$	2,641	\$	3,567		
Mandatorily Redeemable Capital Stock		14		21		19		55		
Regulatory Capital Stock		2,732		2,699		2,660		3,622		
Retained Earnings		1,297		1,306		1,304		1,228		
Regulatory Capital	\$	4,029	\$	4,005	\$	3,964	\$	4,850		
		Six Mont	ths End	led	Year Ended					
		June 3	0, 2021	<u> </u>		Decembe	r 31, 20	020		
	Per	riod End	A	verage	Per	iod End	A	verage		
GAAP and Regulatory Capital-to-Assets Ratio		_		_						
GAAP		6.82 %		6.36 %		6.02 %		5.39 %		
Regulatory (1)		6.84		6.41		6.07		5.47		

⁽¹⁾ At all times, the FHLB must maintain at least a four percent minimum regulatory capital-to-assets ratio.

Our business model is structured to be able to absorb sharp changes in assets because we can execute commensurate changes in liability and capital stock balances. For example, in the first six months of 2021, we issued \$1.0 billion of capital stock to members in support of short-term Advance borrowings that were subsequently repaid prior to June 30, 2021. During the same period, we repurchased \$0.9 billion of capital stock in response to lower Advance balances.

See the "Capital Adequacy" section in "Quantitative and Qualitative Disclosures About Risk Management" for discussion of our retained earnings.

Membership and Stockholders

In the first six months of 2021, we added five new member stockholders and lost five member stockholders, ending the quarter at 628 member stockholders. Three of the five members lost during the first six months of 2021 were attributable to intradistrict merger activity.

RESULTS OF OPERATIONS

Components of Earnings and Return on Equity

The following table is a summary income statement for the three and six months ended June 30, 2021 and 2020. Each ROE percentage is computed by dividing income or expense for the category by the average amount of stockholders' equity for the period.

		Thre	e Months l	Ende	ed June	30,	Six Months Ended June 30,							
(Dollars in millions)		202	21		20	20		202	21		20	20		
	Am	ount	ROE (1)	Ar	nount	ROE (1)	Amount		ROE (1)	Ar	nount	ROE (1)		
Net interest income	\$	66	6.51 %	\$	149	10.71 %	\$	142	7.21 %	\$	232	9.11 %		
Non-interest income (loss):														
Net gains (losses) on investment securities		(15)	(1.51)		(11)	(0.74)		(154)	(7.83)		362	14.23		
Net gains (losses) on derivatives and hedging activities		(36)	(3.55)		(34)	(2.43)		61	3.10		(328)	(12.89)		
Net gains (losses) on financial instruments held under fair value option		2	0.25		26	1.84		7	0.33		(25)	(0.99)		
Other non-interest income, net		7	0.69		4	0.26		13	0.68		6	0.26		
Total non-interest income (loss)		(42)	(4.12)		(15)	(1.07)		(73)	(3.72)		15	0.61		
Total income		24	2.39		134	9.64		69	3.49		247	9.72		
Non-interest expense		24	2.35		24	1.72		48	2.41		48	1.90		
Affordable Housing Program assessments			0.01		11	0.80		2	0.11		20	0.78		
Net income	\$		0.03 %	\$	99	7.12 %	\$	19	0.97 %	\$	179	7.04 %		

⁽¹⁾ The ROE amounts have been computed using dollars in thousands. Accordingly, recalculations based upon the disclosed amounts in millions may produce nominally different results.

Details on the individual factors contributing to the level and changes in profitability are explained in the sections below.

Net Interest Income

Components of Net Interest Income

The following table shows selected components of net interest income.

		Thre	e Months l	End	ed June	30,	Six Months Ended June 30,								
(Dollars in millions)		20	21		202	20	2021				2020				
	Amou		% of Earning Assets	Ar	nount	% of Earning Assets	Amount		% of Earning Assets	An	nount	% of Earning Assets			
Components of net interest rate spread:															
Net (amortization)/accretion (1)(2)	\$	(28)	(0.18)%	\$	(28)	(0.11)%	\$	(56)	(0.18)%	\$	(50)	(0.10)%			
Prepayment fees on Advances, net (2)		5	0.03		13	0.05		6	0.02		18	0.03			
Other components of net interest rate spread		82	0.54		158	0.61		178	0.58		239	0.49			
Total net interest rate spread		59	0.39		143	0.55		128	0.42		207	0.42			
Earnings from funding assets with interest-free capital		7	0.04		6	0.03		14	0.04		25	0.05			
Total net interest income/net interest margin (3)	\$	66	0.43 %	\$	149	0.58 %	\$	142	0.46 %	\$	232	0.47 %			

- (1) Includes monthly recognition of premiums and discounts paid on purchases of mortgage assets, premiums, discounts and concessions paid on Consolidated Obligations and other hedging basis adjustments.
- (2) This component of net interest rate spread has been segregated to display its relative impact.
- (3) Net interest margin is net interest income as a percentage of average total interest-earning assets.

Net Amortization/Accretion (generally referred to as "amortization"): Net amortization can become substantial and volatile with changes in interest rates. When mortgage rates decrease, premium amortization of mortgage assets generally increases, which reduces net interest income. Net amortization in the three and six months ended June 30, 2021 and 2020 was elevated due to the historically low mortgage rates, which led to accelerated prepayments of mortgage assets. The \$10 million increase in amortization from mortgage assets in the six-months comparison was partially offset by a \$4 million decrease in amortization on Consolidated Obligations. Amortization on Consolidated Obligations was elevated in the first three months of 2020 as we repaid higher coupon fixed-rate Bonds as interest rates fell.

<u>Prepayment Fees on Advances:</u> Fees for members' early repayment of certain Advances, which are included in net interest income, are designed to make us economically indifferent to whether members hold Advances to maturity or repay them before maturity. Advance prepayment fees were moderate in the six months ended June 30, 2021. The higher Advance prepayment fees in the first six months of 2020 was due to a higher amount of member prepayments of Advances as interest rates declined.

Other Components of Net Interest Rate Spread: The total other components of net interest rate spread decreased \$76 million and \$61 million in the three- and six-months comparisons periods, respectively. The net decreases were primarily due to the factors below.

Six-Months Comparison

- Lower average Advance balances-*Unfavorable*: The \$27.8 billion decrease in the average balance of Advances lowered net interest income by an estimated \$49 million.
- Lower spreads earned on mortgage assets-*Unfavorable*: Lower spreads on the mortgage assets portfolio decreased net interest income by an estimated \$35 million. The lower spreads were driven by the decline in average long-term interest rates, which accelerated the prepayments of higher-yielding mortgages at a faster pace than the associated debt funding them.
- Lower average balances of mortgage assets-*Unfavorable*: The \$3.6 billion decrease in the average balance of mortgage-backed securities and the \$3.3 billion decrease in the average balance of mortgage loans held for portfolio lowered net interest income by an estimated \$27 million. Mortgage balances declined due to the acceleration of principal cash flows driven by historically low mortgage interest rates.
- **Higher spreads on shorter-term and floating-rate asset balances-***Favorable*: Higher spreads on shorter-term assets and floating-rate assets (including those that have been swapped to a floating rate) improved net interest income by an estimated \$39 million as the rates on the debt funding these assets declined. However, the increase in net interest

income was more than offset by lower non-interest income (loss) primarily due to an increase of \$51 million in the net interest settlements being paid on related derivatives not receiving hedge accounting.

• Unrealized gains on designated fair value hedges-*Favorable*: Net unrealized gains on hedged items and derivatives in qualifying fair value hedge relationships improved net interest income by \$12 million.

Three-Months Comparison

Except for the unrealized gains on fair value hedges, which were losses in the three-months comparison, the same factors generally affected the other components of net interest rate spread as in the six-months comparison and by approximately the same relative magnitude.

Earnings from Capital: Earnings from capital decreased \$11 million in the six months ended June 30, 2021 compared to the same period in 2020 primarily due to average short-term rates declining approximately 60 to 90 basis points as the Federal Reserve responded to the evolving risks to economic activity in the first quarter of 2020 due to the COVID-19 pandemic and has continued to keep rates low. Earnings from capital were relatively flat in the three-months comparison given average short-term rates were similar in each of the quarters.

Average Balance Sheet and Rates

The following tables provide average balances and rates for major balance sheet accounts, which determine the changes in net interest rate spreads. Interest amounts and average rates are affected by our use of derivatives and the related accounting elections we make. Interest amounts reported for Advances, MBS, Other investments and Swapped Bonds include gains (losses) on hedged items and derivatives in qualifying fair value hedge relationships.

In addition, the net interest settlements of interest receivables or payables associated with derivatives in a fair value hedge relationship are included in net interest income and interest rate spread. However, if the derivatives do not qualify for fair value hedge accounting, the related net interest settlements of interest receivables or payables are recorded in "Non-interest income (loss)" as "Net gains (losses) on derivatives and hedging activities" and therefore are excluded from the calculation of net interest rate spread. Amortization associated with some hedging-related basis adjustments is also reflected in net interest income, which affects interest rate spread.

(Dollars in millions)	Three Months Ended			Three Months Ended				
	Jı	une 30, 202	21	Jı	ine 30, 2020	0		
	Average Balance	Interest	Average Rate (1)	Average Balance	Interest	Average Rate (1)		
Assets:								
Advances	\$ 25,646	\$ 37	0.57 %	\$ 62,445	\$ 172	1.11 %		
Mortgage loans held for portfolio (2)	8,111	38	1.90	11,963	74	2.49		
Federal funds sold and securities purchased under resale agreements	7,748	1	0.07	4,154	1	0.08		
Interest-bearing deposits in banks (3) (4)	679		0.10	1,467		0.11		
MBS ⁽³⁾	8,736	24	1.10	12,212	48	1.59		
Other investments (3)	10,350	55	2.11	12,163	68	2.26		
Loans to other FHLBanks			<u> </u>					
Total interest-earning assets	61,270	155	1.01	104,404	363	1.40		
Other assets	660			3,099				
Total assets	\$ 61,930			\$ 107,503				
Liabilities and Capital:								
Term deposits	\$ 75	_	0.21	\$ 51	_	1.07		
Other interest bearing deposits (4)	1,423	_	0.02	1,266	_	0.02		
Discount Notes	25,805	2	0.03	63,084	83	0.53		
Unswapped fixed-rate Bonds	20,901	83	1.60	19,152	108	2.27		
Unswapped adjustable-rate Bonds	7,622	1	0.04	12,702	5	0.14		
Swapped Bonds	1,192	3	0.86	4,393	17	1.58		
Mandatorily redeemable capital stock	22	_	1.99	133	1	2.61		
Other borrowings			_					
Total interest-bearing liabilities	57,040	89	0.62	100,781	214	0.85		
Non-interest bearing deposits	_			_				
Other liabilities	812			1,106				
Total capital	4,078			5,616				
Total liabilities and capital	\$ 61,930			\$ 107,503				
Net interest rate spread			0.39 %			0.55 %		
Net interest income and net interest margin (5)		\$ 66	0.43 %		\$ 149	0.58 %		
Average interest-earning assets to interest-bearing liabilities		-	107.42 %			103.60 %		

⁽¹⁾ Amounts used to calculate average rates are based on dollars in thousands. Accordingly, recalculations based upon the disclosed amounts in millions may not produce the same results.

⁽²⁾ Non-accrual loans are included in average balances used to determine average rate.

⁽³⁾ Includes available-for-sale securities based on their amortized costs. The yield information does not give effect to changes in fair value that are reflected as a component of stockholders' equity for available-for-sale securities.

⁽⁴⁾ The average balance amounts include the rights or obligations to cash collateral, which are included in the fair value of derivative assets or derivative liabilities on the Statements of Condition at period end.

⁽⁵⁾ Net interest margin is net interest income as a percentage of average total interest-earning assets.

(Dollars in millions)	Six Months Ended June 30, 2021				Months En	
	Average Balance	Interest	Average Rate (1)	Average Balance	Interest	Average Rate (1)
Assets:						
Advances	\$ 25,099	\$ 79	0.63 %	\$ 52,872	\$ 348	1.32 %
Mortgage loans held for portfolio (2)	8,601	83	1.94	11,865	163	2.77
Federal funds sold and securities purchased under resale agreements	7,934	3	0.07	7,385	40	1.07
Interest-bearing deposits in banks (3) (4) (5)	770	_	0.10	1,630	7	0.85
MBS (4)	9,077	54	1.21	12,631	116	1.85
Other investments (4)	10,398	113	2.19	12,033	137	2.29
Loans to other FHLBanks	_	_	_	10	_	1.22
Total interest-earning assets	61,879	332	1.08	98,426	811	1.66
Other assets	615			2,011		
Total assets	\$ 62,494			\$100,437		
Liabilities and Capital:						
Term deposits	\$ 92	_	0.29	\$ 42	_	1.38
Other interest bearing deposits (5)	1,388	_	0.02	1,153	3	0.50
Discount Notes	26,225	7	0.06	56,391	259	0.93
Unswapped fixed-rate Bonds	19,232	171	1.79	20,312	239	2.36
Unswapped adjustable-rate Bonds	9,324	4	0.07	11,760	40	0.68
Swapped Bonds	1,376	8	1.21	4,596	37	1.64
Mandatorily redeemable capital stock	21		2.00	92	1	2.29
Other borrowings			_			_
Total interest-bearing liabilities	57,658	190	0.66	94,346	579	1.24
Non-interest bearing deposits	_			5		
Other liabilities	863			969		
Total capital	3,973			5,117		
Total liabilities and capital	\$ 62,494			\$100,437		
Net interest rate spread			0.42 %			0.42 %
Net interest income and net interest margin (6)		\$ 142	0.46 %		\$ 232	0.47 %
Average interest-earning assets to interest-bearing liabilities			107.32 %			104.32 %

⁽¹⁾ Amounts used to calculate average rates are based on dollars in thousands. Accordingly, recalculations based upon the disclosed amounts in millions may not produce the same results.

Rates and corresponding levels of interest income and expense on our interest-bearing assets and liabilities decreased in the three and six months ended June 30, 2021 compared to the same periods in 2020 due to the decline in market interest rates.

⁽²⁾ Non-accrual loans are included in average balances used to determine average rate.

⁽³⁾ Includes certificates of deposit that are classified as available-for-sale securities.

⁽⁴⁾ Includes available-for-sale securities based on their amortized costs. The yield information does not give effect to changes in fair value that are reflected as a component of stockholders' equity for available-for-sale securities.

⁽⁵⁾ The average balance amounts include the rights or obligations to cash collateral, which are included in the fair value of derivative assets or derivative liabilities on the Statements of Condition at period end.

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

Volume/Rate Analysis

Changes in both average balances (volume) and interest rates influence changes in net interest income, as shown in the following table.

(In millions)		ree Months End 30, 2021 over			x Months Ende 30, 2021 over 2	
	Volume (1)(3)	Rate (2)(3)	Total	Volume (1)(3)	Rate (2)(3)	Total
Increase (decrease) in interest income						
Advances	\$ (74)	\$ (61)	\$ (135)	\$ (135)	\$ (134)	\$ (269)
Mortgage loans held for portfolio	(21)	(15)	(36)	(38)	(42)	(80)
Federal funds sold and securities purchased under resale agreements	_	_	_	3	(40)	(37)
Interest-bearing deposits in banks	_	_	_	(3)	(4)	(7)
MBS	(12)	(12)	(24)	(28)	(34)	(62)
Other investments	(9)	(4)	(13)	(18)	(6)	(24)
Loans to other FHLBanks						
Total	(116)	(92)	(208)	(219)	(260)	(479)
Increase (decrease) in interest expense						
Term deposits			_		_	_
Other interest-bearing deposits	_	_	_	_	(3)	(3)
Discount Notes	(31)	(50)	(81)	(91)	(161)	(252)
Unswapped fixed-rate Bonds	9	(34)	(25)	(12)	(56)	(68)
Unswapped adjustable-rate Bonds	(1)	(3)	(4)	(7)	(29)	(36)
Swapped Bonds	(9)	(5)	(14)	(21)	(8)	(29)
Mandatorily redeemable capital stock	(1)		(1)	(1)	_	(1)
Other borrowings						
Total	(33)	(92)	(125)	(132)	(257)	(389)
Increase (decrease) in net interest income	\$ (83)	<u>\$</u>	\$ (83)	\$ (87)	\$ (3)	\$ (90)

⁽¹⁾ Volume changes are calculated as the change in volume multiplied by the prior year rate.

⁽²⁾ Rate changes are calculated as the change in rate multiplied by the prior year average balance.

⁽³⁾ Changes that are not identifiable as either volume-related or rate-related, but rather are equally attributable to both volume and rate changes, have been allocated to the volume and rate categories based upon the proportion of the absolute value of the volume and rate changes.

Effect of the Use of Derivatives on Net Interest Income

The following table shows the impact on net interest income from the effect of derivatives and hedging activities. As noted above, gains (losses) on hedged items and derivatives in qualifying fair value hedge relationships are recorded in interest income or expense. In addition, for derivatives designated as a fair value hedge, the net interest settlements of interest receivables or payables related to such derivatives are recognized as adjustments to the interest income or expense of the designated hedged item. As such, all the effects on earnings of derivatives qualifying for fair value hedge accounting are reflected in net interest income. The effect on earnings from derivatives not receiving fair value hedge accounting is provided in the "Non-Interest Income (Loss)" section below.

(In millions)	Three Months Ended June 30,			Six Months Ende			led June 30,	
	2021 2020				2021	2020		
Advances:								_
Gains (losses) on designated fair value hedges	\$	(3)	\$	2	\$	1	\$	(11)
Net interest settlements included in net interest income		(28)		(19)		(61)		(21)
Investment securities:								
Gains (losses) on designated fair value hedges		(1)						
Net interest settlements included in net interest income		(3)		(1)		(4)		(1)
Mortgage loans:								
Amortization of derivative fair value adjustments in net interest income		(4)		(3)		(8)		(5)
Consolidated Obligation Bonds:								
Net interest settlements included in net interest income				1		1		1
Increase (decrease) to net interest income	\$	(39)	\$	(20)	\$	(71)	\$	(37)

Most of our use of derivatives is to synthetically convert the fixed interest rates on certain Advances, investments and Consolidated Obligations to adjustable rates tied to an eligible benchmark rate (e.g., LIBOR, the Federal funds effective rate, or SOFR). The larger negative effect of derivatives on net interest income in the three and six months ended June 30, 2021 was primarily due to lower short-term benchmark interest rates, which resulted in higher net interest settlements being paid on certain Advances where the fixed interest rates were converted to adjustable-coupon rates. The fluctuation in earnings from the use of derivatives was acceptable because it enabled us to lower market risk exposure by matching actual cash flows between assets and liabilities more closely and efficiently than would otherwise occur.

Non-Interest Income (Loss)

Non-interest income (loss) consists of certain realized and unrealized gains (losses) on investment securities, derivatives activities, financial instruments held under the fair value option, and other non-interest earning activities. The following tables present the net effect of derivatives and hedging activities on non-interest income (loss). The effects of derivatives and hedging activities on non-interest income relate only to derivatives not qualifying for fair value hedge accounting.

(In millions)	Advance	es	Investmen Securities		Mortgage Loans	Bonds	count	et (1)	O	ther	Т	otal
Three Months Ended June 30, 2021						 						
Net effect of derivatives and hedging activities												
Gains (losses) on derivatives not receiving hedge accounting	\$ (1)	\$ 11		\$ 4	\$ (2)	\$ _	\$ (3)	\$	_	\$	9
Net interest settlements on derivatives not receiving hedge accounting	_	_	(47	')	_	2		_				(45)
Price alignment amount	_	_	_	-	_		_			_		
Net gains (losses) on derivatives and hedging activities	(1)	(36	-	4		_	(3)		_		(36)
Gains (losses) on trading securities (2)	_		(15	()	_	_				_		(15)
Gains (losses) on financial instruments held under fair value option (3)	_	_	_	-	_	2	_	_		_		2
Total net effect on non-interest income	\$ (1)	\$ (51)	\$ 4	\$ 2	\$ 	\$ (3)	\$		\$	(49)
Three Months Ended June 30, 2020 Net effect of derivatives and hedging activities												
Gains (losses) on derivatives not receiving hedge accounting	\$ -	_	\$ 18	;	\$ (7)	\$ (3)	\$ (13)	\$ (2)	\$	_	\$	(7)
Net interest settlements on derivatives not receiving hedge accounting	_	_	(49)	_	9	13			_		(27)
Price alignment amount	_	_	_	-	_	_	_	_		_		
Net gains (losses) on derivatives and hedging activities	_		(31)	(7)	6		(2)				(34)
Gains (losses) on trading securities (2)		_	(11)		_						(11)
Gains (losses) on financial instruments held under fair value option (3)	_		_			12	14	_		_		26
Total net effect on non-interest income	\$ -		\$ (42	<u>(</u>	\$ (7)	\$ 18	\$ 14	\$ (2)	\$		\$	(19)

(In millions)	Adva	nces	restment	Mort Loa		Во	onds	count	Bal She	ance eet (1)	Ot	her	Total
Six Months Ended June 30, 2021													
Net effect of derivatives and hedging activities													
Gains (losses) on derivatives not receiving hedge accounting	\$	1	\$ 154	\$	1	\$	(6)	\$ _	\$	_	\$	_	\$ 150
Net interest settlements on derivatives not receiving hedge accounting			(95)		_		6	_		_		_	(89)
Price alignment amount												_	
Net gains (losses) on derivatives and hedging activities		1	59		1			_		_		_	61
Gains (losses) on trading securities (2)		_	(154)		_		_	_		_		_	(154)
Gains (losses) on financial instruments held under fair value option (3)		(1)	_				8	_					7
Total net effect on non-interest income	\$		\$ (95)	\$	1	\$	8	\$ 	\$		\$		\$ (86)
Six Months Ended June 30, 2020													
Net effect of derivatives and hedging activities													
Gains (losses) on derivatives not receiving hedge accounting	\$	(9)	\$ (387)	\$	(15)	\$	28	\$ 1	\$	91	\$	_	\$ (291)
Net interest settlements on derivatives not receiving hedge accounting		1	(68)				9	20		_			(38)
Price alignment amount			_		_		_	_		_		1	1
Net gains (losses) on derivatives and hedging activities		(8)	(455)		(15)		37	21		91		1	(328)
Gains (losses) on trading securities (2)		_	362		_		_	_		_		_	362
Gains (losses) on financial instruments held under fair value option (3)			_		_		(25)	_		_		_	(25)
Total net effect on non-interest income	\$	(8)	\$ (93)	\$	(15)	\$	12	\$ 21	\$	91	\$	1	\$ 9

- (1) Balance sheet includes synthetic basis swaps and swaptions, which are not designated as hedging a specific financial instrument.
- (2) Includes only those gains (losses) on trading securities that have an assigned economic derivative; therefore, this line item may not agree to the Statement of Income.
- (3) Includes only those gains or losses on financial instruments held at fair value that have an economic derivative "assigned."

The net effect of derivatives and hedging activities was more unfavorable in the three and six months ended June 30, 2021 compared to the same periods of 2020. In the first six months of 2021, most of the negative impact was a result of higher net interest settlements being paid on investment securities. In the first six month of 2020, the sale of interest rate swaptions as interest rates fell to historically low levels during the first quarter of 2020 benefited non-interest income. The sales of swaptions in the first quarter of 2020 resulted in net realized gains of approximately \$69 million before assessments. We did not sell any interest rate swaptions in the first six months of 2021. We use swaptions to hedge market risk exposure associated with fixed-rate mortgage assets and may sell swaptions as interest rates change in order to offset actual and anticipated risks associated with holding fixed-rate mortgage assets. In the three-months comparison, the negative impact was primarily a result of both unrealized fair value gains and losses on instruments we expect to hold to maturity and less net interest settlements being received on swapped Discount Notes and Bonds.

In the table above, "Gains (losses) on trading securities" consist of fixed-rate U.S. Treasury and GSE obligations that have been swapped to a variable rate. Trading securities are recorded at fair value, with changes in fair value reported in non-interest income (loss). There are a number of factors that affect the fair value of these securities, including changes in interest rates, the passage of time, and volatility. By hedging these trading securities, the gains or losses on these trading securities will generally be offset by the gains or losses on the associated interest rate swaps.

Non-Interest Expense

The following table presents non-interest expense.

	Three Months Ended June 30,					Months 1	Ended June 30,	
(In millions)		2021		2020		2021		2020
Non-interest expense								
Compensation and benefits	\$	12	\$	12	\$	25	\$	25
Other operating expense		5		5		11		11
Finance Agency		2		2		4		3
Office of Finance		1		1		3		3
Other		4		4		5		6
Total non-interest expense	\$	24	\$	24	\$	48	\$	48

Our business is designed to support significant changes in asset levels without having to undergo material changes in staffing, operations, risk practices, or general resource needs. Accordingly, total non-interest expenses remained stable for the three and six months ended June 30, 2021 compared to the same periods in 2020.

Segment Information

Note 13 of the Notes to Unaudited Financial Statements presents information on our two operating business segments. We manage financial operations and market risk exposure primarily at the macro level, and within the context of the entire balance sheet, rather than exclusively at the level of individual segments. Under this approach, the market risk/return profile of each segment may not match, or possibly even have the same trends as, what would occur if we managed each segment on a standalone basis. The tables below summarize each segment's operating results for the periods shown.

(Dollars in millions)	Traditional Member Finance	MPP	Total
Three Months Ended June 30, 2021			
Net interest income (loss)	\$ 81	\$ (15)	\$ 66
Net income (loss)	\$ 14	\$ (14)	\$ —
Average assets	\$ 50,494	\$ 11,436	\$ 61,930
Assumed average capital allocation	\$ 3,324	\$ 754	\$ 4,078
Return on average assets (1)	0.12 %	(0.50)%	<u> </u>
Return on average equity (1)	1.77 %	(7.62)%	0.03 %
Three Months Ended June 30, 2020			
Net interest income	\$ 139	\$ 10	\$ 149
Net income (loss)	\$ 99	\$ —	\$ 99
Average assets	\$ 95,499	\$ 12,004	\$ 107,503
Assumed average capital allocation	\$ 4,988	\$ 628	\$ 5,616
Return on average assets (1)	0.42 %	<u> </u>	0.37 %
Return on average equity (1)	8.02 %	(0.02)%	7.12 %
(Dollars in millions) Six Months Ended June 30, 2021	Traditional Member Finance	MPP	Total
Six Months Ended June 30, 2021	Member Finance		
Six Months Ended June 30, 2021 Net interest income (loss)	Member Finance \$ 168	\$ (26)	\$ 142
Six Months Ended June 30, 2021 Net interest income (loss) Net income (loss)	Member Finance	\$ (26) \$ (28)	\$ 142 \$ 19
Six Months Ended June 30, 2021 Net interest income (loss) Net income (loss) Average assets	Member Finance \$ 168 \$ 47 \$ 50,877	\$ (26) \$ (28) \$ 11,617	\$ 142 \$ 19 \$ 62,494
Six Months Ended June 30, 2021 Net interest income (loss) Net income (loss) Average assets Assumed average capital allocation	Member Finance	\$ (26) \$ (28) \$ 11,617 \$ 738	\$ 142 \$ 19 \$ 62,494 \$ 3,973
Six Months Ended June 30, 2021 Net interest income (loss) Net income (loss) Average assets Assumed average capital allocation Return on average assets (1)	Member Finance	\$ (26) \$ (28) \$ 11,617 \$ 738 (0.48)%	\$ 142 \$ 19 \$ 62,494 \$ 3,973 0.06 %
Six Months Ended June 30, 2021 Net interest income (loss) Net income (loss) Average assets Assumed average capital allocation Return on average assets (1) Return on average equity (1)	Member Finance	\$ (26) \$ (28) \$ 11,617 \$ 738	\$ 142 \$ 19 \$ 62,494 \$ 3,973
Six Months Ended June 30, 2021 Net interest income (loss) Net income (loss) Average assets Assumed average capital allocation Return on average assets (1) Return on average equity (1) Six Months Ended June 30, 2020	Member Finance	\$ (26) \$ (28) \$ 11,617 \$ 738 (0.48)% (7.55)%	\$ 142 \$ 19 \$ 62,494 \$ 3,973 0.06 % 0.97 %
Six Months Ended June 30, 2021 Net interest income (loss) Net income (loss) Average assets Assumed average capital allocation Return on average assets (1) Return on average equity (1)	Member Finance	\$ (26) \$ (28) \$ 11,617 \$ 738 (0.48)% (7.55)% \$ 28	\$ 142 \$ 19 \$ 62,494 \$ 3,973 0.06 % 0.97 % \$ 232
Six Months Ended June 30, 2021 Net interest income (loss) Net income (loss) Average assets Assumed average capital allocation Return on average assets (1) Return on average equity (1) Six Months Ended June 30, 2020 Net interest income Net income	Member Finance	\$ (26) \$ (28) \$ 11,617 \$ 738 (0.48)% (7.55)% \$ 28	\$ 142 \$ 19 \$ 62,494 \$ 3,973 0.06 % 0.97 %
Six Months Ended June 30, 2021 Net interest income (loss) Net income (loss) Average assets Assumed average capital allocation Return on average assets (1) Return on average equity (1) Six Months Ended June 30, 2020 Net interest income Net income Average assets	Member Finance	\$ (26) \$ (28) \$ 11,617 \$ 738 (0.48)% (7.55)% \$ 28 \$ 62	\$ 142 \$ 19 \$ 62,494 \$ 3,973 0.06 % 0.97 % \$ 232 \$ 179
Six Months Ended June 30, 2021 Net interest income (loss) Net income (loss) Average assets Assumed average capital allocation Return on average assets Return on average equity (1) Six Months Ended June 30, 2020 Net interest income Net income Average assets Assumed average capital allocation	Member Finance \$ 168 \$ 47 \$ 50,877 \$ 3,235 0.19 % 2.91 % \$ 204 \$ 117 \$ 88,419	\$ (26) \$ (28) \$ 11,617 \$ 738 (0.48)% (7.55)% \$ 28 \$ 62 \$ 12,018	\$ 142 \$ 19 \$ 62,494 \$ 3,973 0.06 % 0.97 % \$ 232 \$ 179 \$ 100,437
Six Months Ended June 30, 2021 Net interest income (loss) Net income (loss) Average assets Assumed average capital allocation Return on average assets (1) Return on average equity (1) Six Months Ended June 30, 2020 Net interest income Net income Average assets	Member Finance \$ 168 \$ 47 \$ 50,877 \$ 3,235 0.19 % 2.91 % \$ 204 \$ 117 \$ 88,419 \$ 4,505	\$ (26) \$ (28) \$ 11,617 \$ 738 (0.48)% (7.55)% \$ 28 \$ 62 \$ 12,018 \$ 612	\$ 142 \$ 19 \$ 62,494 \$ 3,973 0.06 % 0.97 % \$ 232 \$ 179 \$ 100,437 \$ 5,117

Amounts used to calculate returns are based on numbers in thousands. Accordingly, recalculations based upon the disclosed amounts in millions may not produce the same results.

Traditional Member Finance Segment

Net income decreased in the six-month comparison period primarily due to the decline in average Advance and MBS balances, lower spreads on MBS and lower Advance prepayment fees. However, these unfavorable factors were partially offset by net unrealized gains on fair value hedges. In the three-months comparison, the factors impacting net income were generally the same except for the unrealized gains on fair value hedges, which were unrealized losses.

MPP Segment

Due to the low interest rate environment, the MPP segment experienced net losses in the three and six months ended June 30, 2021. The net losses were due to elevated net amortization, lower MPP balances, and lower portfolio spreads earned on MPP driven by the accelerated payoff of higher-yielding mortgages at a faster pace than the associated debt funding them. Net income in the first six months of 2020 significantly benefited from gains due to the sale of interest rate swaptions as rates fell to historically low levels in the first quarter of 2020. We did not sell any swaptions in the first six months of 2021.

QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT RISK MANAGEMENT

Market Risk

Market Value of Equity and Duration of Equity - Entire Balance Sheet

Two key measures of long-term market risk exposure are the sensitivities of the market value of equity and the duration of equity to changes in interest rates and other variables, as presented in the following tables for various instantaneous and permanent interest rate shocks (in basis points). We compiled average results using data for each month end. Given the current level of rates, some down rate shocks are nonparallel scenarios, with short-term rates decreasing less than long-term rates such that no rate falls below zero.

Market Value of Equity							
(Dollars in millions)	Down 300	Down 200	Down 100	Flat Rates	Up 100	Up 200	Up 300
Average Results							
2021 Year-to-Date							
Market Value of Equity	\$ 3,978	\$ 3,984	\$ 4,026	\$ 4,051	\$ 3,999	\$ 3,905	\$ 3,859
% Change from Flat Case	(1.8)%	(1.6)%	(0.6)%		(1.3)%	(3.6)%	(4.8)%
<u> 2020 Full Year</u>							
Market Value of Equity	\$ 4,541	\$ 4,541	\$ 4,547	\$ 4,624	\$ 4,723	\$ 4,608	\$ 4,466
% Change from Flat Case	(1.8)%	(1.8)%	(1.7)%	_	2.1 %	(0.3)%	(3.4)%
Month-End Results							
<u>June 30, 2021</u>							
Market Value of Equity	\$ 4,010	\$ 4,010	\$ 4,037	\$ 4,073	\$ 4,004	\$ 3,896	\$ 3,825
% Change from Flat Case	(1.6)%	(1.6)%	(0.9)%	_	(1.7)%	(4.3)%	(6.1)%
<u>December 31, 2020</u>							
Market Value of Equity	\$ 3,765	\$ 3,765	\$ 3,791	\$ 3,835	\$ 3,893	\$ 3,777	\$ 3,676
% Change from Flat Case	(1.8)%	(1.8)%	(1.1)%		1.5 %	(1.5)%	(4.2)%
Duration of Equity							
(In years)	Down 300	Down 200	Down 100	Flat Rates	Up 100	Up 200	Up 300
Average Results							
2021 Year-to-Date	(0.2)	(0.6)	(1.4)	0.8	2.3	2.0	0.4
2020 Full Year		_	(0.9)	(2.6)	1.0	3.4	2.0
Month-End Results							
June 30, 2021	<u> </u>	(0.2)	(1.4)	1.2	2.5	3.4	1.0
December 31, 2020		(0.1)	(1.4)	(2.3)	1.8	3.2	1.2

The overall market risk exposure to changing interest rates was well within policy limits during the periods presented. At June 30, 2021, exposure to falling interest rates in the down shock scenarios was muted as some rates become floored at near zero rate levels. Exposure to moderate rising rate shocks increased marginally due primarily to the increase in long-term interest rates that occurred in the first six months of 2021. The duration of equity, which provides an estimate of the change in market value of equity to further changes in interest rates, remains stable and well within policy limits.

Based on the totality of our risk analysis, we expect that profitability, defined as the level of ROE compared with short-term market rates, will be competitive over the long term unless interest rates change by large amounts in a short period of time. Further declines in long-term interest rates could substantially decrease income in the near term (one to two years) before reverting over time to average levels. This temporary reduction in income would be driven by additional recognition of

mortgage asset premiums as the further incentive for borrowers to refinance results in faster than anticipated repayments of those mortgage assets.

Market Risk Exposure of the Mortgage Assets Portfolio

The mortgage assets portfolio normally accounts for almost all market risk exposure because of prepayment volatility that we cannot completely hedge while maintaining sufficient net spreads. Sensitivities of the market value of equity allocated to the mortgage assets portfolio under interest rate shocks (in basis points) are shown below. The average mortgage assets portfolio had an assumed capital allocation of \$1.1 billion in the first six months of 2021 based on the entire balance sheet's average regulatory capital-to-assets ratio. Average results shown in the table below are compiled using data for each month end. The market value sensitivities are one measure we use to analyze the portfolio's estimated market risk exposure.

% Change in Market Value of Equity-Mortgage Assets Portfolio

	Down 300	Down 200	Down 100	Flat Rates	Up 100	Up 200	Up 300
Average Results							
2021 Year-to-Date	(15.4)%	(14.1)%	(7.5)%	_	(0.5)%	(4.5)%	(5.0)%
2020 Full Year	(15.9)%	(15.9)%	(14.6)%		11.9 %	2.4 %	(10.3)%
Month-End Results							
June 30, 2021	(12.9)%	(12.9)%	(7.0)%	_	(1.4)%	(5.7)%	(7.7)%
December 31, 2020	(15.3)%	(15.3)%	(11.3)%	_	10.6 %	3.9 %	(1.7)%

The average risk exposure of the mortgage assets portfolio in the first six months of 2021 remained aligned with our preference to keep our exposure to market risk at a low to moderate level. The variances between periods primarily reflect the impact of higher long-term interest rates observed in the first six months of 2021. These higher long-term interest rates resulted in marginally higher exposure at June 30, 2021 to rising rate shocks and less exposure to falling rate shocks before they become floored when they reach near zero rate levels. We believe the mortgage asset portfolio will continue to provide an acceptable risk adjusted return consistent with our risk appetite philosophy.

Capital Adequacy

Retained Earnings

We must hold sufficient capital to protect against exposure to various risks, including market, credit, and operational. We regularly conduct a variety of measurements and assessments for capital adequacy. At June 30, 2021, our capital management policy set forth approximately \$230 million as the minimum amount of retained earnings we believe is necessary to mitigate impairment risk.

The following table presents retained earnings.

(In millions)	June 30	0, 2021	Decem	ber 31, 2020
Unrestricted retained earnings	\$	792	\$	803
Restricted retained earnings (1)		505		501
Total retained earnings	\$	1,297	\$	1,304

⁽¹⁾ Pursuant to the FHLBank System's Joint Capital Enhancement Agreement we are not permitted to distribute as dividends.

As indicated in the table above, our current balance of retained earnings exceeds the policy minimum, which we expect will continue to be the case as we bolster capital adequacy over time by allocating a portion of earnings to the restricted retained earnings account.

Market Capitalization Ratios

We measure two sets of market capitalization ratios. One measures the market value of equity (i.e., total capital) relative to the par value of regulatory capital stock (which is GAAP capital stock and mandatorily redeemable capital stock). The other measures the market value of total capital relative to the book value of total capital, which includes all components of capital, and mandatorily redeemable capital stock. The measures provide a point-in-time indication of the FHLB's liquidation or franchise value and can also serve as a measure of realized or potential market risk exposure.

The following table presents the market value of equity to regulatory capital stock (excluding retained earnings) for several interest rate environments.

	June 30, 2021	December 31, 2020
Market Value of Equity to Par Value of Regulatory Capital Stock - Base Case (Flat Rates) Scenario	149 %	144 %
Market Value of Equity to Par Value of Regulatory Capital Stock - Down Shock $^{(1)}$	148	143
Market Value of Equity to Par Value of Regulatory Capital Stock - Up Shock (2)	143	142

- (1) Represents a down shock of 100 basis points.
- (2) Represents an up shock of 200 basis points.

A base case value below 100 percent could indicate that, in the remote event of an immediate liquidation scenario involving redemption of all capital stock, capital stock may be returned to stockholders at a value below par. This could be due to experiencing risks that lower the market value of capital and/or to having an insufficient amount of retained earnings. In the first six months of 2021, the market capitalization ratios in the scenarios presented continued to be above our policy requirements. The base case ratio at June 30, 2021 was well above 100 percent because retained earnings were 47 percent of regulatory capital stock and we maintained stable market risk exposure.

The following table presents the market value of equity to the book value of total capital and mandatorily redeemable capital stock.

	June 30, 2021	December 31, 2020
Market Value of Equity to Book Value of Capital - Base Case (l	Flat Rates)	
Scenario (1)	101 %	97 %
Market Value of Equity to Book Value of Capital - Down Shock	x ⁽¹⁾⁽²⁾ 100	96
Market Value of Equity to Book Value of Capital - Up Shock (1)	(3) 97	96

- (1) Capital includes total capital and mandatorily redeemable capital stock.
- (2) Represents a down shock of 100 basis points.
- (3) Represents an up shock of 200 basis points.

A base-case value below 100 percent indicates that we have realized or could realize risks (especially market risk), such that the market value of total capital owned by stockholders is below the book value of total capital. In a scenario in which interest rates increase 200 basis points, the market value of total capital would be \$131 million below the book value of total capital. This indicates that in a liquidation scenario, stockholders would not receive the full sum of their total equity ownership in the FHLB. We believe the likelihood of a liquidation scenario is extremely remote; and therefore, we accept the risk of diluting equity ownership in such a scenario.

Credit Risk

Overview

We believe our risk management practices, discussed below, minimize residual credit risk levels. We have no loan loss reserves or impairment recorded for Credit Services, investments and derivatives. We have a minimal amount of legacy credit risk exposure in the MPP.

Credit Services

Overview: We have policies and practices to manage credit risk exposure from our secured lending activities, which include Advances and Letters of Credit. The objective of our credit risk management activities is to equalize risk exposure across members and counterparties to a zero level of expected losses. This approach is consistent with our conservative risk management principles and desire to have no residual credit risk related to Advances and Letters of Credit.

<u>Collateral:</u> We require each member to provide a security interest in eligible collateral before it can undertake any secured borrowing. Eligible loan collateral types include the following: single- and multi-family residential, home equity, commercial real estate, government guaranteed and farm real estate. Eligible security types include those that are government or agency backed, along with highly-rated private-label residential and commercial mortgage-backed securities. We have conservative eligibility criteria within each of the above asset types. The estimated value of pledged collateral is discounted in order to offset market, credit, and liquidity risks that may affect the collateral's realizable value in the event it must be liquidated. At June 30,

2021, total collateral pledged of \$410.8 billion resulted in total borrowing capacity of \$328.4 billion of which \$58.5 billion was used to support outstanding Advances and Letters of Credit. Borrowers often pledge collateral in excess of their collateral requirement to demonstrate access to liquidity and to have the ability to borrow additional amounts in the future. Over-collateralization by one member is not applied to another member.

Borrowing Capacity/Lendable Value: Lendable Value Rates (LVRs) represent the percent of collateral value net of the discount, or haircut, we apply for purposes of determining borrowing capacity. LVRs are determined by statistical analysis and management assumptions relating to historical price volatility, inherent credit risks, liquidation costs, and the current credit and economic environment. We apply LVR results to the estimated values of pledged assets. LVRs vary among pledged assets and members based on the member institution type, the financial strength of the member institution, the form of valuation, lien position, the issuer of bond collateral or the quality of securitized assets, the quality of the loan collateral as reflected in the manner in which it was underwritten, and the marketability of the pledged assets.

<u>Internal Credit Ratings:</u> We perform credit underwriting of our members and nonmember institutions and assign them an internal credit rating. These credit ratings are based on internal and third-party ratings models, credit analyses and consideration of credit ratings from independent credit rating organizations. Credit ratings are used in conjunction with other measures of credit risk in managing secured credit risk exposure.

Member Failures, Closures, and Receiverships: There have been no member failures in 2021 through the date of this filing.

MPP

Overview: The residual amount of credit risk exposure to loans in the MPP is minimal, based on the same factors described in the 2020 Annual Report on Form 10-K. In light of the COVID-19 pandemic, we are closely monitoring the credit risk of our MPP portfolio. We have implemented temporary relief provisions for MPP loans, including forbearance plans to help with short-term hardships, in response to the negative economic impacts associated with COVID-19.

Conventional Loan Portfolio Characteristics: The levels of loan-to-value ratios are consistent with the portfolio's excellent credit quality. At June 30, 2021, the weighted average loan-to-value ratios for conventional loans based on origination values and estimated current values were 73 percent and 50 percent, respectively. The estimated weighted average current loan-to-value ratio decreased five percent compared to the ratio at December 31, 2020 as home values have continued to increase.

<u>Credit Performance:</u> The table below provides an analysis of conventional loans delinquent or in the process of foreclosure, along with the national average serious delinquency rate.

	Conventional Loan Delinquencies					
(Dollars in millions)	June	2 30, 2021	Decem	ber 31, 2020		
Early stage delinquencies - unpaid principal balance (1)	\$	36	\$	49		
Serious delinquencies - unpaid principal balance (2)	\$	42	\$	64		
Early stage delinquency rate (3)		0.5 %		0.5 %		
Serious delinquency rate (4)		0.6 %		0.7 %		
National average serious delinquency rate (5)		3.2 %		3.7 %		

- (1) Includes conventional loans 30 to 89 days delinquent and not in foreclosure.
- (2) Includes conventional loans that are 90 days or more past due or where the decision of foreclosure or a similar alternative such as pursuit of deed-in-lieu has been reported.
- (3) Early stage delinquencies expressed as a percentage of the total conventional loan portfolio.
- (4) Serious delinquencies expressed as a percentage of the total conventional loan portfolio.
- (5) National average number of fixed-rate prime and subprime conventional loans that are 90 days or more past due or in the process of foreclosure is based on the most recent national delinquency data available. The June 30, 2021 rate is based on March 31, 2021 data.

In response to the COVID-19 pandemic, our mortgage loan servicers may grant a forbearance period to borrowers who have had COVID-19 related hardships such as illness, unemployment or loss of income when homeowners meet certain eligibility requirements. These forbearances do not alter the underlying terms of the loans, and loans not paid timely are considered past due. As a result, early stage and serious delinquencies were elevated at June 30, 2021 and December 31, 2020 compared to prior periods. At June 30, 2021, \$8 million and \$30 million of conventional loans with an early stage and serious delinquency, respectively, were under a forbearance plan. However, delinquencies have decreased since year-end 2020 as fewer borrowers have requested temporary relief provisions for MPP loans.

Overall, the MPP has experienced a minimal amount of delinquencies, with delinquency rates continuing to be well below national averages. This further supports our view that the portfolio is comprised of high-quality, well-performing loans.

Credit Enhancements: Conventional mortgage loans are supported against credit losses by various combinations of primary mortgage insurance (PMI), supplemental mortgage insurance (SMI) (for loans purchased before February 2011), and the Lender Risk Account (LRA). The LRA is a hold back of a portion of the initial purchase price to cover expected credit losses for a specific pool of loans. Starting after five years from the loan purchase date, we may return the hold back to Participating Financial Institutions (PFIs) if they manage credit risk to predefined acceptable levels of exposure on the loan pools they sell to us. As a result, some pools of loans may have sufficient credit enhancements to recapture all losses while other pools of loans may not. The LRA had balances of \$247 million and \$246 million at June 30, 2021 and December 31, 2020, respectively. For more information, see Note 5 of the Notes to Unaudited Financial Statements.

Credit Losses: Residual credit risk exposure depends on the actual and potential credit performance of the loans in each pool compared to the pool's equity (on individual loans) and credit enhancements, including PMI, the LRA, and SMI. Our available credit enhancements at June 30, 2021 were ample and able to cover nearly all of the estimated gross credit losses. As a result, estimated credit losses at June 30, 2021 were less than \$1 million. Estimated credit losses, after credit enhancements, are accounted for in the allowance for credit losses or as a charge off (i.e., a reduction to the principal of mortgage loans held for portfolio). In addition, we have assessed that we do not have any credit risk exposure to our PMI providers, and our estimation of credit exposure to SMI providers was not material at June 30, 2021 or December 31, 2020.

Separate from our allowance for credit losses analysis, we regularly analyze potential adverse scenarios of lifetime credit risk exposure for the loans in the MPP. Even under adverse macroeconomic scenarios, including the increased delinquencies as a result of COVID-19 related forbearances, we would expect credit losses to remain minimal.

Investments

Liquidity Investments: We purchase liquidity investments from counterparties that have a strong ability to repay principal and interest. These investments can be easily converted to cash and may be unsecured, guaranteed or supported by the U.S. government, or secured (i.e., collateralized). For unsecured liquidity investments, we invest in the debt securities of highly rated, investment-grade institutions, have appropriate and conservative limits on dollar and maturity exposure to each institution, and have strong credit underwriting practices, including active monitoring of credit quality of our counterparties and of the environment in which they operate. In addition, we believe the portion of our liquidity investments for which the investments are secured with collateral (secured resale agreements) present no credit risk exposure to us.

The following table presents the carrying value of liquidity investments outstanding in relation to the counterparties' lowest long-term credit ratings provided by Standard & Poor's, Moody's, and/or Fitch Advisory Services. For resale agreements, the ratings shown are based on ratings of the associated collateral. Our internal ratings of these investments may differ from those obtained from Standard & Poor's, Moody's, and/or Fitch Advisory Services. The historical or current ratings displayed in this table should not be taken as an indication of future ratings.

(In millions)	June 30, 2021						
	Long-Term Rating						
		AA	A			Total	
<u>Unsecured Liquidity Investments</u>							
Interest-bearing deposits	\$	_	\$	374	\$	374	
Federal funds sold		1,238		4,937		6,175	
Total unsecured liquidity investments		1,238		5,311		6,549	
Guaranteed/Secured Liquidity Investments							
Securities purchased under agreements to resell		437		_		437	
U.S. Treasury obligations		9,240				9,240	
GSE obligations		1,929				1,929	
Total guaranteed/secured liquidity investments		11,606				11,606	
Total liquidity investments	\$	12,844	\$	5,311	\$	18,155	
			December 31, 2020				
			Decem	ber 31, 202	20		
				ber 31, 202 Ferm Ratin			
						Total	
Unsecured Liquidity Investments		I		Term Ratin		Total	
<u>Unsecured Liquidity Investments</u> Interest-bearing deposits	\$	I		Term Ratin		Total 555	
	\$	I	Long-	Γerm Ratin	ıg —		
Interest-bearing deposits	\$	AA	Long-	Term Ratin A 555	ıg —	555	
Interest-bearing deposits Federal funds sold	\$	AA	Long-	Ferm Ratin A 555 3,740	ıg —	555 4,240	
Interest-bearing deposits Federal funds sold Total unsecured liquidity investments	\$	AA	Long-	Ferm Ratin A 555 3,740	ıg —	555 4,240	
Interest-bearing deposits Federal funds sold Total unsecured liquidity investments Guaranteed/Secured Liquidity Investments	\$	AA	Long-	Ferm Ratin A 555 3,740	ıg —	555 4,240 4,795	
Interest-bearing deposits Federal funds sold Total unsecured liquidity investments Guaranteed/Secured Liquidity Investments Securities purchased under agreements to resell	\$	AA — 500 500 1,818	Long-	Ferm Ratin A 555 3,740	ıg —	555 4,240 4,795	
Interest-bearing deposits Federal funds sold Total unsecured liquidity investments Guaranteed/Secured Liquidity Investments Securities purchased under agreements to resell U.S. Treasury obligations	\$	AA — 500 500 1,818 8,404	Long-	Ferm Ratin A 555 3,740	ıg —	555 4,240 4,795 1,818 8,404	

The following table presents the lowest long-term credit ratings provided by Standard & Poor's, Moody's, and/or Fitch Advisory Services of our unsecured investment credit exposure by the domicile of the counterparty or the domicile of the counterparty's immediate parent for U.S. branches and agency offices of foreign commercial banks. Our internal ratings of these investments may differ from those obtained from Standard & Poor's, Moody's, and/or Fitch Advisory Services. The historical or current ratings displayed in this table should not be taken as an indication of future ratings.

(In millions)	June 30, 2021						
	Counterparty Rating						
Domicile of Counterparty		AA		A	Total		
Domestic	\$	_	\$	374	\$	374	
U.S. branches and agency offices of foreign commercial banks:							
Canada		388		1,496		1,884	
Sweden				1,496		1,496	
Australia		_		748		748	
Netherlands				748		748	
Norway		600		_		600	
Finland		250		_		250	
Germany		_		249		249	
France		_		200		200	
Total U.S. branches and agency offices of foreign commercial banks		1,238		4,937		6,175	
Total unsecured investment credit exposure	\$	1,238	\$	5,311	\$	6,549	

The following table presents the remaining contractual maturity of our unsecured investment credit exposure by the domicile of the counterparty or the domicile of the counterparty's immediate parent for U.S. branches and agency offices of foreign commercial banks.

(In millions)	June 30, 2021		21	
Domicile of Counterparty	Ov	ernight		Total
Domestic	\$	374	\$	374
U.S. branches and agency offices of foreign commercial banks:				
Canada		1,884		1,884
Sweden		1,496		1,496
Australia		748		748
Netherlands		748		748
Norway		600		600
Finland		250		250
Germany		249		249
France		200		200
Total U.S. branches and agency offices of foreign commercial banks		6,175		6,175
Total unsecured investment credit exposure	\$	6,549	\$	6,549

We are prohibited by Finance Agency regulation from investing in financial instruments issued by non-U.S. entities. Furthermore, we restrict a significant portion of unsecured lending to overnight maturities, which further limits credit risk exposure.

MBS:

GSE MBS

At June 30, 2021, \$7.8 billion of MBS held were GSE securities issued by Fannie Mae and Freddie Mac, which provide credit safeguards by guaranteeing either timely or ultimate payments of principal and interest. We believe that the conservatorships of Fannie Mae and Freddie Mac lower the chance that they would not be able to fulfill their credit guarantees and that the securities issued by these two GSEs are effectively government guaranteed. In addition, based on the data available to us and our purchase practices, we believe that most of the mortgage loans backing our GSE MBS are of high quality with acceptable credit performance.

MBS Issued by Other Government Agencies

We also invest in MBS issued and guaranteed by Ginnie Mae. These investments totaled \$1.1 billion at June 30, 2021. We believe that the strength of Ginnie Mae's guarantee and backing by the full faith and credit of the U.S. government is sufficient to protect us against credit losses on these securities.

Derivatives

<u>Credit Risk Exposure:</u> We mitigate most of the credit risk exposure resulting from derivative transactions through collateralization or use of daily settled contracts. The table below presents the lowest long-term counterparty credit ratings provided by Standard & Poor's, Moody's, and/or Fitch Advisory Services for derivative positions to which we had credit risk exposure at June 30, 2021. The historical or current ratings displayed in this table should not be taken as an indication of future ratings.

(In millions)

	N	Total otional	_	Net Derivatives air Value Before Collateral	Cash Collateral Pledged to (from) Counterparties	Net Cr Exposu Counterp	re to
Nonmember counterparties:							
Asset positions with credit exposure:							
Cleared derivatives (1)	\$	736	\$		\$ 3	\$	3
Liability positions with credit exposure:							
Uncleared derivatives:							
A-rated		148		(1)	1		
Total uncleared derivatives		148		(1)	1		
Cleared derivatives (1)		20,973		(5)	216		211
Total derivative positions with credit exposure to nonmember counterparties		21,857		(6)	220		214
Member institutions (2)		506		2	_		2
Total	\$	22,363	\$	(4)	\$ 220	\$	216

- (1) Represents derivative transactions cleared with LCH Ltd. and CME Clearing, the FHLB's clearinghouses. LCH Ltd. is rated AA- by Standard & Poor's, and CME Clearing is not rated, but its parent company, CME Group Inc., is rated Aa3 by Moody's and AA- by Standard & Poor's.
- (2) Represents Mandatory Delivery Contracts.

Our exposure to cleared derivatives is primarily associated with the requirement to post initial margin through the clearing agent to the Derivatives Clearing Organizations. We pledge cash as collateral to satisfy this initial margin requirement. However, the use of cleared derivatives mitigates credit risk exposure because a central counterparty is substituted for individual counterparties.

At June 30, 2021, the net exposure of uncleared derivatives with residual credit risk exposure was less than \$1 million. If interest rates rise or the composition of our derivatives change resulting in an increase to our gross exposure to uncleared derivatives, the contractual collateral provisions in these derivatives would limit our net exposure to acceptable levels.

Although we cannot predict if we will realize credit risk losses from any of our derivatives counterparties, we believe that all of the counterparties will be able to continue making timely interest payments and, more generally, to continue to satisfy the terms and conditions of their derivative contracts with us. As of June 30, 2021, we had \$0.4 billion of notional principal of interest rate swaps with a subsidiary of our member, JPMorgan Chase Bank, N.A., which also had outstanding credit services with us.

Due to the amount of market value collateralization, we had no outstanding credit exposure to this counterparty related to interest rate swaps outstanding.

Liquidity Risk

Liquidity Overview

We strive to be in a liquidity position at all times to meet the borrowing needs of our members and to meet all current and future financial commitments. This objective is achieved by managing liquidity positions to maintain stable, reliable, and cost-effective sources of funds while taking into account market conditions, member demand, and the maturity profile of assets and liabilities. Our liquidity position complies with the FHLBank Act, Finance Agency regulations, and internal policies.

The FHLBank System's primary source of funds is the sale of Consolidated Obligations in the capital markets. Our ability to obtain funds through the sale of Consolidated Obligations at acceptable interest costs depends on the financial market's perception of the riskiness of the Obligations and on prevailing conditions in the capital markets, particularly the short-term capital markets. The System's favorable debt ratings, the implicit U.S. government backing of our debt, and our effective risk management practices are instrumental in ensuring stable and satisfactory access to the capital markets.

We believe our liquidity position, as well as that of the System, continued to be strong during the first six months of 2021. Our overall ability to effectively fund our operations through debt issuances remained sufficient. Investor demand for System debt was robust in the first six months of 2021, as investors continued to prefer short-term, high-quality money market instruments. We believe the possibility of a liquidity or funding crisis in the System that would impair our ability to participate, on a cost-effective basis, in issuances of debt, service outstanding debt, maintain adequate capitalization, or pay competitive dividends is remote.

The System works collectively to manage and monitor the System-wide liquidity and funding risks. Liquidity risk includes the risk that the System could have difficulty rolling over short-term Obligations when market conditions change, also called refinancing risk. The System has a large reliance on short-term funding; therefore, it has a sharp focus on managing liquidity risk to very low levels. As shown on the Statements of Cash Flows, in the first six months of 2021, our portion of the System's debt issuances totaled \$99.6 billion for Discount Notes and \$19.8 billion for Bonds. Access to short-term debt markets has been reliable because investors, driven by liquidity preferences and risk aversion, have sought the System's short-term debt, which has resulted in strong demand for debt maturing in one year or less.

See the Notes to Unaudited Financial Statements for more detailed information regarding maturities of certain financial assets and liabilities which are instrumental in determining the amount of liquidity risk. In addition to contractual maturities, other assumptions regarding cash flows such as estimated prepayments, embedded call optionality, and scheduled amortization are considered when managing liquidity risks.

Liquidity Management and Regulatory Requirements

We manage liquidity risk by ensuring compliance with our regulatory liquidity requirements and regularly monitoring other metrics.

The Finance Agency establishes the expectations with respect to the maintenance of sufficient liquidity without access to the capital markets for a specified number of days, which was set as a period of between 10 to 30 calendar days in the base case. Under these expectations, all Advance maturities are assumed to renew, unless the Advances relate to former members who are ineligible to borrow new Advances. The maintenance of sufficient liquidity is intended to provide additional assurance that we can continue to provide Advances and Letters of Credit to members over an extended period without access to the capital markets. As of June 30, 2021, our days of positive daily cash balances were within these expectations.

The Finance Agency also provides guidance related to asset/liability maturity funding gap limits. Funding gap metrics measure the difference between assets and liabilities that are scheduled to mature during a specified period of time and are expressed as a percentage of total assets. Although subject to change depending on conditions in the financial markets, the current regulatory requirement for funding gaps is between -10 percent to -20 percent for the three-month maturity horizon and is between -25 percent to -35 percent for the one-year maturity horizon. As of June 30, 2021, we were operating within those limits.

To support our member deposits, we also must meet a statutory deposit reserve requirement. The sum of our investments in obligations of the United States, deposits in eligible banks or trust companies, and Advances with a final maturity not exceeding five years must equal or exceed the current amount of member deposits. The following table presents the components of this liquidity requirement.

(In millions)	June	30, 2021	Decen	nber 31, 2020
Deposit Reserve Requirement		_		_
Total Eligible Deposit Reserves	\$	35,680	\$	37,185
Total Member Deposits		(1,336)		(1,327)
Excess Deposit Reserves	\$	34,344	\$	35,858

Off-Balance Sheet Arrangements

The following table summarizes our off-balance sheet items at June 30, 2021. For more information, see Note 15 of the Notes to Unaudited Financial Statements.

(In millions)	<	1 year	1 <	< 3 years	3 <	5 years	> :	5 years	Total
Off-balance sheet items (1)									
Standby Letters of Credit	\$	33,933	\$	1,165	\$	68	\$	_	\$ 35,166
Standby bond purchase agreements		16		15		_		_	31
Consolidated Obligations traded, not yet settled		100				425		75	600
Total off-balance sheet items	\$	34,049	\$	1,180	\$	493	\$	75	\$ 35,797

⁽¹⁾ Represents notional amount of off-balance sheet obligations.

Member Concentration Risk

We regularly assess concentration risks from business activity. We believe that the concentration of Advance activity is consistent with our risk management philosophy, and the impact of borrower concentration on market risk, credit risk, and operational risk, after considering mitigating controls, is minimal.

Operational Risks

There were no material developments regarding our operational risk exposure during the first six months of 2021.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

There have been no material changes in the first six months of 2021 to our critical accounting policies and estimates. Our critical accounting policies and estimates are described in detail in our 2020 Annual Report on Form 10-K.

Item 3. Quantitative and Qualitative Disclosures About Market Risk.

Information required by this Item is set forth under the caption "Quantitative and Qualitative Disclosures About Risk Management" in Part I, Item 2, of this Report.

Item 4. Controls and Procedures.

DISCLOSURE CONTROLS AND PROCEDURES

As of June 30, 2021, the FHLB's management, including its principal executive officer and principal financial officer, evaluated the effectiveness of our disclosure controls and procedures as defined in Rule 13a-15(e) under the Securities Exchange Act of 1934 (the "Exchange Act"). Based upon that evaluation, these two officers each concluded that, as of June 30, 2021, the FHLB maintained effective disclosure controls and procedures designed to ensure that information required to be disclosed in the reports that it files under the Exchange Act is (1) accumulated and communicated to management as appropriate to allow timely

decisions regarding disclosure and (2) recorded, processed, summarized and reported within the time periods specified in the rules and forms of the Securities and Exchange Commission.

CHANGES IN INTERNAL CONTROL OVER FINANCIAL REPORTING

As of June 30, 2021, the FHLB's management, including its principal executive officer and principal financial officer, evaluated the FHLB's internal control over financial reporting. Based upon that evaluation, these two officers each concluded that there were no changes in the FHLB's internal control over financial reporting that occurred during the quarter ended June 30, 2021 that materially affected, or are reasonably likely to materially affect, the FHLB's internal control over financial reporting.

PART II - OTHER INFORMATION

Item 1. Legal Proceedings.

Information regarding legal proceedings is set forth in Note 15 - Commitments and Contingencies in Part I, Item I, of this Report.

Item 1A. Risk Factors.

For a discussion of our risk factors, see Part I, Item 1A. "Risk Factors" in our 2020 Annual Report on Form 10-K. There have been no material changes from the risk factors in our 2020 Annual Report on Form 10-K.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.

None.

Item 3. Defaults Upon Senior Securities.

None.

Item 4. Mine Safety Disclosures.

Not applicable.

Item 5. Other Information.

None.

Item	6.	Exhibits.
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Exhibit Number (1)	Description of exhibit	Document filed or furnished, as indicated below
31.1	Rule 13a-14(a)/15d-14(a) Certification of Principal Executive Officer	Filed Herewith
31.2	Rule 13a-14(a)/15d-14(a) Certification of Principal Financial Officer	Filed Herewith
<u>32</u>	Section 1350 Certifications	Furnished Herewith
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
101.SCH	XBRL Taxonomy Extension Schema Document	Filed Herewith
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document	Filed Herewith
101.LAB	XBRL Taxonomy Extension Label Linkbase Document	Filed Herewith
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document	Filed Herewith
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document	Filed Herewith
104	Cover Page Interactive Data File (formatted as inline XBRL and contained in Exhibit 101)	Filed Herewith

⁽¹⁾ Numbers coincide with Item 601 of Regulation S-K.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) 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, as of the 5th day of August 2021.

FEDERAL HOME LOAN BANK OF CINCINNATI (Registrant)

By: /s/ Andrew S. Howell

Andrew S. Howell

President and Chief Executive Officer

(principal executive officer)

By: /s/ Stephen J. Sponaugle

Stephen J. Sponaugle

Executive Vice President - Chief Financial Officer

(principal financial officer)

RULE 13a-14(a)/15d-14(a) CERTIFICATION

I, Andrew S. Howell, certify that:

- 1. I have reviewed this quarterly report on Form 10-Q of the Federal Home Loan Bank of Cincinnati;
- Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of the financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date:	August	5	2021
Duic.	1 Iugust	~ ~	2021

/s/ Andrew S. Howell

Andrew S. Howell

President and Chief Executive Officer

RULE 13a-14(a)/15d-14(a) CERTIFICATION

I, Stephen J. Sponaugle, certify that:

- 1. I have reviewed this quarterly report on Form 10-Q of the Federal Home Loan Bank of Cincinnati;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of the financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: August 5, 2021

SECTION 1350 CERTIFICATIONS

In connection with the Quarterly Report of the Federal Home Loan Bank of Cincinnati (the FHLB) on Form 10-Q for the period ended June 30, 2021 as filed with the Securities and Exchange Commission on the date hereof (the Report), each of the undersigned officers certifies, to the best of his knowledge, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the FHLB.

/s/ Andrew S. Howell

Andrew S. Howell President and Chief Executive Officer August 5, 2021

/s/ Stephen J. Sponaugle

Stephen J. Sponaugle Executive Vice President, Chief Financial Officer August 5, 2021