AgCredit Agricultural Credit Association

FIRST QUARTER 2023

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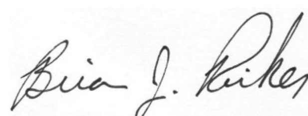
CERTIFICATION

The undersigned certify that we have reviewed the March 31, 2023 quarterly report of AgCredit Agricultural Credit Association, that the report has been prepared under the oversight of the Audit Committee of the Board of Directors and in accordance with all applicable statutory or regulatory requirements, and that the information contained herein is true, accurate, and complete to the best of our knowledge and belief.



Brian J. Ricker
Chief Executive Officer

Logan W. Kreais
Chief Financial Officer

Dustin J. Sonnenberg
Chairman of the Board

May 9, 2023

AgCredit Agricultural Credit Association

Report on Internal Control Over Financial Reporting

The Association's principal executives and principal financial officers, or persons performing similar functions, are responsible for establishing and maintaining adequate internal control over financial reporting for the Association's Consolidated Financial Statements. For purposes of this report, "internal control over financial reporting" is defined as a process designed by, or under the supervision of the Association's principal executives and principal financial officers, or persons performing similar functions, and effected by its Board of Directors, management and other personnel, to provide reasonable assurance regarding the reliability of financial reporting information and the preparation of the Consolidated Financial Statements for external purposes in accordance with accounting principles generally accepted in the United States of America and includes those policies and procedures that:

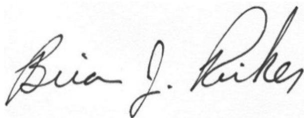
1) Pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the Association,

2) Provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial information in accordance with accounting principles generally accepted in the United States of America, and that receipts and expenditures are being made only in accordance with authorizations of management and directors of the Association, and

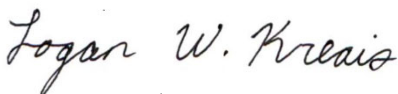
3) Provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the Association's assets that could have a material effect on its Consolidated Financial Statements.

The Association's management has completed an assessment of the effectiveness of internal control over financial reporting as of March 31, 2023. In making the assessment, management used the framework in *Internal Control — Integrated Framework (2013)*, promulgated by the Committee of Sponsoring Organizations of the Treadway Commission, commonly referred to as the "COSO" criteria.

Based on the assessment performed, the Association's management concluded that as of March 31, 2023, the internal control over financial reporting was effective based upon the COSO criteria. Additionally, based on this assessment, the Association's management determined that there were no material changes to or weaknesses in the internal control over financial reporting as of March 31, 2023.



Brian J. Ricker
Chief Executive Officer



Logan W. Kreais
Chief Financial Officer

May 9, 2023

AgCredit Agricultural Credit Association

Management's Discussion and Analysis of Financial Condition and Results of Operations

The following commentary reviews the financial condition and results of operations of AgCredit Agricultural Credit Association (Association) for the three months ended March 31, 2023. These comments should be read in conjunction with the accompanying consolidated financial statements, notes to the consolidated financial statements, the Association's March 31, 2022 quarterly report, and the 2022 Annual Report of the Association. The accompanying consolidated financial statements (financial statements) were prepared under the oversight of the Audit Committee of the Board of Directors, which includes Gary L. Baldosser, David M. Stott, Ph.D., CPA, and Kevin P. Flanagan. The results for the three months of 2023 are not necessarily indicative of results to be expected for the year.

LOAN PORTFOLIO

The Association provides funds to farmers, rural homeowners, and farm-related businesses for financing of short and intermediate-term loans and long-term real estate mortgage loans through numerous product types. The Association's loan portfolio consists predominantly of grains (primarily soybeans, corn, and wheat), livestock, and landlords, which constitute 71 percent of the entire portfolio as of March 31, 2023. The Association recognizes the commodity concentration risk exceeds normally accepted industry standards. This risk, along with the risk associated with large loans, is reduced by members' off-farm income, utilization of crop insurance, and the use of FSA, USDA, Business and Industry, SBA, and Farmer Mac loan guarantees. As of March 31, 2023, the Association had $835,414 of guaranteed loan volume, which is 29.56 percent of loans as compared to $774,997 of guaranteed volume or 29.76 percent of the portfolio at March 31, 2022. Loan guarantees reduce the potential of loss in the Association's loan portfolio and help to leverage the Association's capital.

Gross loan volume of the Association as of March 31, 2023 was $2,826,638 a decrease of $46,744 or 1.63 percent when compared to $2,873,382 at December 31, 2022. The decrease in loan volume primarily relates to a decrease in production and intermediate (PRIT) partially offset by increases in real estate mortgage, processing and marketing, and other loan volume

From March 31, 2022 to March 31, 2023, volume increased by $222,680 or 8.55 percent. The increase in loan volume primarily relates to increases in real estate mortgage, processing and marketing, PRIT, and other loan volume.

Net loans outstanding at March 31, 2023 were $2,819,450 as compared to $2,866,377 at December 31, 2022. Net loans accounted for 96.58 percent of total assets at March 31, 2023 as compared to 96.37 percent at December 31, 2022.

The following table summarizes the Association's risk assets (accruing volume includes accrued interest receivable):

	3/31/2023	12/31/2022
Nonaccrual loans	$ 5,788	$ 2,520
Accruing restructured loans	–	529
Accruing loans 90 days or more past due	10,749	1,144
Total high-risk loans	16,537	4,193
Other property owned	–	–
Total high-risk assets	$ 16,537	$ 4,193
Ratios:		
Nonaccrual loans to total loans	0.20%	0.09%
High-risk assets to total assets	0.57%	0.14%

High-risk assets increased during the first three months of 2023 primarily as a result of increases in nonaccrual loans and accruing loans 90 days or more past due partially offset by a reduction in accruing restructured loans.

There is an inherent risk in the extension of any type of credit, and accordingly, the Association maintains an allowance for loan losses consistent with the risk measured in the portfolio.

General portfolio credit quality improved slightly for the first three months of 2023 when compared to December 31, 2022, and remains at an acceptable level. Credit administration is satisfactory.

During the first three months of 2023 the Association recorded no charge-offs or recoveries and a reversal of allowance for loan losses (reversal) of $227. The reversal is primarily due to the overall risk rating mix. For the same period of 2022, the Association recorded no charge-offs or recoveries and a reversal of $495. The allowance for loan losses represented 0.25 percent and 0.24 percent of loans at March 31, 2023 and December 31, 2022, respectively.

RESULTS OF OPERATIONS

For the three months ending March 31, 2023

Net income for the three months ended March 31, 2023 (Q1 2023) was $14,610, an increase of $2,838 or 24.11 percent when compared to the net income of $11,772 for the same period in 2022 (Q1 2022). Major changes in the components of net income when comparing Q1 2023 to Q1 2022 are identified as follows:

- Net interest income increased by $3,104 or 22.72 percent primarily due to increased earnings on our own funds from higher interest rates and due to loan growth.

- Provision for loan losses decreased by $227 due to a decrease in the allowance for loan losses in 2023 as compared to 2022 primarily related to the overall risk rating mix.

- Noninterest income increased by $897 or 18.31 percent primarily for the following reasons:

  Patronage refund from other Farm Credit institutions (patronage refunds) increased by $668 primarily as a result of increases in general and participation sold patronage due to increased average daily balances (ADB).

  Loan fees increased by $181 due to an increase in participations purchased fees.

  Gains (losses) on other transactions increased $46 due to the reduction in losses in the NQ401K Rabbi Trust in 2023 compared to the same period in 2022.

- Noninterest expense increased by $943 or 12.97 percent primarily due to:

  Salary and benefits expense increased by $630 or 13.84 percent primarily due to increased expenses from scheduled salary increases, increased annual incentives, health insurance, and employment tax costs as well as a decrease in deferred origination costs partially offset by decreases in pension costs.

  Insurance fund premiums increased by $164 or 28.52 percent due to increased average volume and an increase in the rate from 16 to 18 basis points.

  Other operating expenses increased by $123 or 10.90 percent due to increased travel, public member relations, advertising, training, and directors expense costs offset by a decrease in printing and office supplies.

  Data Processing increased by $46 or 39.32 percent primarily due to new software subscriptions.

  Purchased services increased by $33 or 24.44 due to timing of payments for services.

  Occupancy and equipment decreased by $37 or 10.54 percent due to a decrease to cost of space and furniture and equipment.

  Guarantee fees decreased by $16 or 3.91 percent due to a decrease in new loan guarantees.

The following table shows the key results of operations ratios for the three months ended March 31, 2023 and March 31, 2022, respectively.

	3/31/2023	3/31/2022
Return on average assets	2.04%	1.82%
Return on average equity	12.36%	10.79%
Net interest margin	2.40%	2.16%
Members' equity to assets	16.67%	16.84%
Debt to members' equity (:1)	5.00	4.94

CAPITAL RESOURCES

Total members' equity was $486,602 at March 31, 2023 as compared to $474,089 at December 31, 2022 for an increase of $12,513 or 2.64 percent. The increase is due primarily to 2023 year-to-date earnings.

The Association's capital ratios as of March 31 along with FCA minimum requirements are included in the following regulatory matters section.

Regulatory Capital Ratios

The Association's regulatory ratios are shown in the following table:

	Regulatory Minimum, Including Buffer	3/31/2023	12/31/2022	3/31/2022
Permanent Capital Ratio	7.00%	20.18%	20.56%	20.97%
Common Equity Tier 1 (CET1) Capital Ratio	7.00%	19.75%	20.10%	20.35%
Tier 1 Capital Ratio	8.50%	19.75%	20.10%	20.35%
Total Capital Ratio	10.50%	20.12%	20.46%	20.76%
Tier 1 Leverage Ratio	5.00%	15.21%	15.27%	15.80%
Unallocated Retained Earnings (URE) and URE Equivalents Leverage Ratio	1.50%	14.93%	14.99%	15.49%

The FCA sets minimum regulatory capital adequacy requirements for System banks and associations. The requirements are based on regulatory ratios as defined by the FCA and include common equity tier 1 (CET1), tier 1, total capital, permanent capital, tier 1 leverage, and unallocated retained earnings (URE) and URE equivalents leverage ratios.

The permanent capital, CET1, tier 1, and total capital ratios are calculated by dividing the three-month average daily balance of the capital numerator, as defined by the FCA, by a risk-adjusted asset base. Unlike these ratios, the tier 1 leverage and URE and URE equivalents leverage ratios do not incorporate any risk-adjusted weighting of assets. Risk-adjusted assets refer to the total dollar amount of the institution's assets adjusted by an appropriate credit conversion factor as defined by regulation. Generally, higher credit conversion factors are applied to assets with more inherent risk. The tier 1 leverage and URE and URE equivalents leverage ratios are calculated by dividing the three-month average daily balance of the capital numerator, as defined by the FCA, by the three-month average daily balance of total assets adjusted for regulatory deductions.

For all periods presented, AgCredit exceeded minimum regulatory standards for all of the ratios. The Association's capital ratios continued to be strong as of March 31, 2023 compared to December 31, 2022 and March 31, 2022. See Regulatory Matters section below for further discussion of capital ratios.

LIBOR Transition

The Association has exposure to LIBOR arising from loans made to customers.

The FCA has issued guidelines with similar guidance as the U.S. prudential regulators but applicable for System institutions to follow as they prepare for the expected phase-out of LIBOR. The guidelines direct each System institution to develop a LIBOR transition plan designed to provide an orderly roadmap of actions that will reduce LIBOR exposure, stop the inflow of new LIBOR volume, and adjust operating processes to implement alternative reference rates.

The Association has implemented LIBOR transition plans and continues to analyze potential risks associated with the LIBOR transition, including, but not limited to, financial, market, accounting, operational, legal, tax, reputational, and compliance risks. See the Association's 2022 Annual Report for further discussion on the LIBOR transition.

The following is a summary of outstanding variable-rate financial instruments tied to LIBOR at March 31, 2023:

(dollars in millions)	Due Before June 30, 2023	Due After June 30, 2023	Total
Loans	$ –	$ 24,455	$ 24,455
Total assets	$ –	$ 24,455	$ 24,455
Note payable to AgFirst Farm Credit Bank	$ –	$ 24,085	$ 24,085
Total liabilities	$ –	$ 24,085	$ 24,085

The LIBOR transition plan includes implementing fallback language into variable-rate financial instruments maturing after March 31, 2023 which provides the ability to move these instruments to another index if the LIBOR market is no longer viable.

REGULATORY MATTERS

On April 14, 2022, the FCA approved a final rule that amends certain regulations to address changes in accounting principles generally accepted in the United States. Such changes reflect the Current Expected Credit Losses (CECL) methodology that replaced the incurred loss methodology upon adoption. Credit loss allowances related to loans, lessor's net investments in leases, and held-to-maturity debt securities are included in a System institution's Tier 2 capital up to 1.25 percent of the System institution's total risk weighted assets. Credit loss allowances for available-for-sale debt securities and purchased credit impaired assets are not eligible for inclusion in a System institution's Tier 2 capital. The regulation did not include a transition phase-in period for the CECL day 1 cumulative effect adjustment to retained earnings on a System institution's regulatory capital ratios. In addition, the regulation did not include an exclusion for the CECL day 1 cumulative effective adjustment from the "safe harbor" deemed prior approval provision. The final rule became effective on January 1, 2023.

On August 26, 2021, the FCA issued a proposed rule to revise its regulatory capital requirements to define and establish risk-weightings for High Volatility Commercial Real Estate (HVCRE) by assigning a 150 percent risk-weighting to such exposures, instead of the current 100 percent. The proposed rule would ensure that the FCA's rule remains comparable with the capital rule of other federal banking regulatory agencies and recognizes the increased risk posed by HVCRE exposures. The public comment period ended on January 24, 2022.

RECENTLY ISSUED ACCOUNTING PRONOUNCEMENTS

Please refer to Note 1, *Organization, Significant Accounting Policies, and Recently Issued Accounting Pronouncements*, in the Notes to the Financial Statements, and the 2022 Annual Report to Shareholders for recently adopted accounting pronouncements. Additional information on new and pending Updates is provided in the following table.

There were no ASUs issued by the Financial Accounting Standards Board (FASB) during the quarter that impacted the Association's Financial Statements.

Note: The Association obtains funding from AgFirst Farm Credit Bank (the Bank). The Association is materially affected and shareholder investment could be materially affected by the financial condition and results of operations of the Bank. Copies of the Bank's Annual and Quarterly Reports are on the AgFirst website, *www.agfirst.com* or may be obtained at no charge by calling 1-800-845-1745, extension 2764, or writing Matthew Miller, AgFirst Farm Credit Bank, P.O. Box 1499, Columbia, SC 29202.

Copies of the Association's Quarterly and Annual Reports are available on the Association's website, www.agcredit.net, or may be obtained upon request free of charge by calling 1-800-837-3678, extension 1048, or writing Logan Kreais, Chief Financial Officer, AgCredit, ACA, 610 W Lytle Street, Fostoria, OH 44830. The Association prepares an electronic version of the Quarterly Report within 40 days after the end of each fiscal quarter, except that no report need be prepared for the fiscal quarter that coincides with the end of the fiscal year of the Association.

AgCredit Agricultural Credit Association

Consolidated Balance Sheets

(dollars in thousands)		**March 31, 2023**		**December 31, 2022**
		(unaudited)		*(audited)*
Assets				
Cash	**$**	**24**	$	67
Investments in debt securities:				
Held to maturity (fair value of $13,332 and $5,347, respectively)		**13,578**		5,784
Loans		**2,826,638**		2,873,382
Allowance for loan losses		**(7,188)**		(7,005)
Net loans		**2,819,450**		2,866,377
Other investments		**3,384**		3,384
Accrued interest receivable		**32,270**		33,163
Equity investments in other Farm Credit institutions		**34,984**		34,950
Premises and equipment, net		**7,445**		7,560
Accounts receivable		**5,515**		20,873
Other assets		**2,574**		2,263
Total assets	**$**	**2,919,224**	$	2,974,421
Liabilities				
Notes payable to AgFirst Farm Credit Bank	**$**	**2,385,870**	$	2,456,560
Accrued interest payable		**6,547**		6,338
Patronage refunds payable		**322**		24,449
Accounts payable		**8,745**		3,222
Advanced conditional payments		**4,626**		960
Other liabilities		**26,512**		8,803
Total liabilities		**2,432,622**		2,500,332
Commitments and contingencies (Note 7)				
Members' Equity				
Capital stock and participation certificates		**15,239**		16,108
Retained earnings				
Allocated		**339,692**		340,538
Unallocated		**131,671**		117,443
Total members' equity		**486,602**		474,089
Total liabilities and members' equity	**$**	**2,919,224**	$	2,974,421

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

AgCredit Agricultural Credit Association

Consolidated Statements of Comprehensive Income

(unaudited)

(dollars in thousands)	For the Three Months Ended March 31, 2023	2022
Interest Income		
Loans	**$ 35,430**	$ 24,785
Investments	**74**	91
Total interest income	**35,504**	24,876
Interest Expense		
Notes payable to AgFirst Farm Credit Bank	**18,739**	11,215
Net interest income	**16,765**	13,661
Provision for (reversal of) allowance for credit losses	**(268)**	(495)
Net interest income after provision for (reversal of) allowance for credit losses	**17,033**	14,156
Noninterest Income		
Loan fees	**281**	100
Fees for financially related services	**30**	35
Patronage refunds from other Farm Credit institutions	**5,427**	4,759
Gains (losses) on other transactions	**(15)**	(61)
Other noninterest income	**73**	66
Total noninterest income	**5,796**	4,899
Noninterest Expense		
Salaries and employee benefits	**5,181**	4,551
Occupancy and equipment	**314**	351
Insurance Fund premiums	**741**	577
Guarantee fees	**393**	409
Purchased services	**168**	135
Data processing	**163**	117
Other operating expenses	**1,251**	1,128
Total noninterest expense	**8,211**	7,268
Income before income taxes	**14,618**	11,787
Provision for income taxes	**8**	15
Net income	**$ 14,610**	$ 11,772
Other comprehensive income	**—**	—
Comprehensive income	**$ 14,610**	$ 11,772

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

AgCredit Agricultural Credit Association

Consolidated Statements of Changes in Members' Equity

(unaudited)

(dollars in thousands)	Capital Stock and Participation Certificates	Retained Earnings Allocated	Retained Earnings Unallocated	Total Members' Equity
Balance at December 31, 2021	$ 17,498	$ 308,056	$ 110,542	$ 436,096
Comprehensive income			11,772	11,772
Capital stock/participation certificates issued/(retired), net	958			958
Dividends declared/paid			(12)	(12)
Patronage distribution adjustment		1,103	(775)	328
Balance at March 31, 2022	$ 18,456	$ 309,159	$ 121,527	$ 449,142
Balance at December 31, 2022	**$ 16,108**	**$ 340,538**	**$ 117,443**	**$ 474,089**
Cumulative effect of change in accounting principle			**(940)**	**(940)**
Comprehensive income			**14,610**	**14,610**
Capital stock/participation certificates issued/(retired), net	**(869)**			**(869)**
Dividends declared/paid			**(46)**	**(46)**
Patronage distribution adjustment		**(846)**	**604**	**(242)**
Balance at March 31, 2023	**$ 15,239**	**$ 339,692**	**$ 131,671**	**$ 486,602**

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

Notes to the Consolidated Financial Statements

(dollars in thousands, except as noted)
(unaudited)

Note 1 — Organization, Significant Accounting Policies, and Recently Issued Accounting Pronouncements

Organization
The accompanying financial statements include the accounts of AgCredit Agricultural Credit Association and its Production Credit Association (PCA) and Federal Land Credit Association (FLCA) subsidiaries (collectively, the Association). A description of the organization and operations, the significant accounting policies followed, and the financial condition and results of operations for the Association as of and for the year ended December 31, 2022, are contained in the 2022 Annual Report to Shareholders. These unaudited interim consolidated financial statements should be read in conjunction with the latest Annual Report to Shareholders.

Basis of Presentation
In the opinion of management, the accompanying consolidated financial statements contain all adjustments necessary for a fair statement of results for the periods presented. These adjustments are of a normal recurring nature, unless otherwise disclosed.

Certain amounts in the prior period's consolidated financial statements have been reclassified to conform to the current period presentation. Such reclassifications had no effect on the prior period net income or total capital as previously reported.

The results of any interim period are not necessarily indicative of those to be expected for a full year.

Significant Accounting Policies
The Association's accounting and reporting policies conform with U.S. generally accepted accounting principles (GAAP) and practices in the financial services industry. To prepare the financial statements in conformity with GAAP, management must make estimates based on assumptions about future economic and market conditions (for example, unemployment, market liquidity, real estate prices, etc.) that affect the reported amounts of assets and liabilities at the date of the financial statements, income and expenses during the reporting period, and the related disclosures. Although these estimates contemplate current conditions and expectations of change in the future, it is reasonably possible that actual conditions may be different than anticipated, which could materially affect results of operations and financial condition.

Management has made significant estimates in several areas, including loans and allowance for credit losses (Note 2, *Loans and Allowance for Credit Losses*) and financial instruments (Note 5, *Fair Value Measurement*). Actual results could differ from those estimates.

For further details of significant accounting policies, see Note 2, *Summary of Significant Accounting Policies*, from the latest Annual Report.

Accounting Standards Effective During the Period
The Association adopted the Financial Accounting Standards Board (FASB) guidance entitled "Measurement of Credit Losses on Financial Instruments" and other subsequently issued accounting standards updates related to current expected credit losses (CECL) on January 1, 2023. This guidance replaced the current incurred loss impairment methodology with a single allowance framework for financial assets carried at amortized cost and certain off-balance sheet credit exposures. This guidance requires management to consider in its estimate of the allowance for credit losses (ACL) relevant historical events, current conditions and reasonable and supportable forecasts that affect the collectability of the assets. In addition, the guidance amends existing impairment guidance for held-to-maturity and available-for-sale investments to incorporate an allowance for credit losses related to these securities, which will allow for the reversal of credit impairments in the event that the credit of an issuer improves.

Also adopted effective January 1, 2023, was the updated guidance entitled "Financial Instruments – Credit Losses: Troubled Debt Restructurings and Vintage Disclosure." This guidance requires the creditor to determine whether a modification results in a new loan or a continuation of an existing loan, among other disclosures specific to modifications with borrowers that are experiencing financial

difficulties. The update eliminated the accounting guidance for troubled debt restructurings by creditors. The update also requires disclosure of current period gross write-offs by year of origination for financing receivables and net investments in leases.

The following table presents the impact to the allowance for credit losses and retained earnings upon adoption of this guidance on January 1, 2023:

	December 31, 2022	CECL Adoption Impact	January 1, 2023
Assets:			
Allowance for credit losses on loans	$ 7,005	$ 410	$ 7,415
Liabilities:			
Allowance for credit losses on unfunded commitments	$ –	$ 530	$ 530
Retained earnings:			
Unallocated retained earnings	$ 117,443	$ (940)	$ 116,503

As more fully described in the 2022 Annual Report, the Association may hold additional investments in accordance with other investment programs approved by the Farm Credit Administration (FCA). These programs allow the institution to make investments that further the mission to support rural America. Upon adoption of CECL guidance, the investments held-to-maturity are presented net of an allowance for credit losses on investments. As part of the Association's implementation of the standard, it was determined that there would not be a material impact to the Association's investment portfolio and as a result, there was no ACL on investments recorded.

Loans and Allowance for Credit Losses

Loans are generally carried at their principal amount outstanding adjusted for charge-offs, deferred loan fees or costs, and valuation adjustments relating to hedging activities. Loan origination fees and direct loan origination costs are netted and capitalized and the net fee or cost is amortized over the average life of the related loan as an adjustment to interest income. Loan prepayment fees are reported in interest income. Interest on loans is accrued and credited to interest income based on the daily principal amount outstanding.

Nonaccrual Loans

Nonaccrual loans are loans for which there is reasonable doubt that all principal and interest will be collected according to the original contractual terms and are generally considered substandard or doubtful, which is in accordance with the loan rating model, as described below. A loan is considered contractually past due when any principal repayment or interest payment required by the loan instrument is not received on or before the due date. A loan shall remain contractually past due until it is modified or until the entire amount past due, including principal, accrued interest, and penalty interest incurred as the result of past due status, is collected or otherwise discharged in full.

Consistent with prior practice, loans are generally placed in nonaccrual status when principal or interest is delinquent for 90 days (unless adequately secured and in the process of collection), circumstances indicate that collection of principal and interest is in doubt or legal action, including foreclosure or other forms of collateral conveyance, has been initiated to collect the outstanding principal and interest. At the time a loan is placed in nonaccrual status, accrued interest that is considered uncollectible is reversed (if accrued in the current year) or charged against the ACL (if accrued in prior years). Loans are charged-off at the time they are determined to be uncollectible.

When loans are in nonaccrual status, interest payments received in cash are generally recognized as interest income if the collectability of the loan principal is fully expected and certain other criteria are met. Otherwise, payments received on nonaccrual loans are applied against the recorded investment in the loan asset. Nonaccrual loans are returned to accrual status if all contractual principal and interest is current, the borrower is fully expected to fulfill the contractual repayment terms and after remaining current as to principal and interest for a sustained period or have a recent repayment pattern demonstrating future repayment capacity to make on-time payments. If previously unrecognized interest income exists at the time the loan is transferred to accrual status, cash received at the time of or subsequent to the transfer should first be recorded as interest income until such time as the recorded balance equals the contractual indebtedness of the borrower.

Accrued interest receivable

The Association elected to continue classifying accrued interest on loans and investment securities in accrued interest receivable and not as part of loans or investments on the Consolidated Balance Sheets. The Association also elected to not estimate an allowance on interest receivable balances because the nonaccrual policies in place provide for the accrual of interest to cease on a timely basis when all contractual amounts are not expected.

Loan Modifications to Borrowers Experiencing Financial Difficulty

Loan modifications may be granted to borrowers experiencing financial difficulty. Modifications can be in the form of one or a combination of principal forgiveness, interest rate reduction, other-than-insignificant payment delay or a term extension. Covenant waivers and modifications of contingent acceleration clauses are not considered term extensions.

Collateral dependent loans

Collateral dependent loans are loans secured by collateral, including but not limited to agricultural real estate, crop inventory, equipment, and livestock. CECL requires an entity to measure the expected credit losses based on fair value of the collateral at the reporting date when the entity determines that foreclosure is probable. Additionally, CECL allows a fair value practical expedient as a measurement approach for loans when the repayment is expected to be provided substantially through the operation or sale of the collateral when the borrower is experiencing financial difficulties. Under the practical expedient measurement approach, the expected credit loss is based on the difference between the fair value of the collateral less estimated costs to sell and the amortized cost basis of the loan.

Allowance for Credit Losses

Beginning January 1, 2023, the ACL represents the estimated current expected credit losses over the remaining contractual life of financial assets measured at amortized cost and certain off-balance sheet credit exposures. The ACL takes into consideration relevant information about past events, current conditions, and reasonable and supportable macroeconomic forecasts of future conditions. The contractual term excludes expected extensions, renewals, and modifications unless the extension or renewal options are not unconditionally cancellable. The ACL comprises:

- the allowance for credit losses on loans (ACLL),
- the allowance for unfunded commitments, which is presented on the Consolidated Balance Sheets in Other Liabilities, and
- (if applicable) the allowance for credit losses on investment securities, which covers held-to-maturity and available-for-sale securities and is recognized within each investment securities classification on the Consolidated Balance Sheets.

Determining the appropriateness of the allowance is complex and requires judgment by management about the effect of matters that are inherently uncertain. Subsequent evaluations of the loan portfolio, considering macroeconomic conditions, forecasts, and other factors prevailing at the time, may result in significant changes in the ACL in those future periods.

Methodology for Allowance for Credit Losses on Loans

The ACLL represents management's estimate of credit losses over the remaining expected life of loans. Loans are evaluated on the amortized cost basis, including premiums, discounts, and fair value hedge accounting adjustments.

The Association employs a disciplined process and methodology to establish its ACLL that has two basic components: first, an asset-specific component involving individual loans that do not share risk characteristics with other loans and the measurement of expected credit losses for such individual loans; and second, a pooled component for estimated expected credit losses for pools of loans that share similar risk characteristics.

Asset-specific loans are generally collateral-dependent loans (including those loans for which foreclosure is probable) and nonaccrual loans. For an asset-specific loan, expected credit losses are measured as the difference between the amortized cost basis in the loan and the present value of expected future cash flows discounted at the loan's effective interest rate except that, for collateral-dependent loans, credit loss is measured as the difference between the amortized cost basis in the loan and the fair value of the underlying collateral. The fair value of the collateral is adjusted for the estimated cost to sell if repayment or satisfaction of a loan is dependent on the sale (rather than only on the operation) of the collateral. In accordance with the Association's appraisal policy, the fair value of collateral-dependent loans is based upon independent third-party appraisals or on collateral valuations prepared by in-house appraisers. When an updated appraisal or collateral valuation is received, management reassesses the need for adjustments to the loan's expected credit loss measurements and, where appropriate, records an adjustment. If the calculated expected credit loss is determined to be permanent, fixed or non-recoverable, the credit loss portion of the loan will be charged-off against the allowance for credit losses.

In estimating the component of the ACLL for loans that share common risk characteristics, loans are evaluated collectively and segregated into loan pools considering the risk associated with the specific pool. Relevant risk characteristics include loan type, commodity, credit quality rating, delinquency category or business segment or a combination of these classes. The allowance is determined based on a quantitative calculation of the expected life-of-loan loss percentage for each loan category by considering the

probability of default, based on the migration of loans from performing to loss by credit quality rating or delinquency buckets using historical life-of-loan analysis periods for loan types, and the severity of loss, based on the aggregate net lifetime losses incurred per loan pool.

The component of the ACLL also considers factors for each loan pool to adjust for differences between the historical period used to calculate historical default and loss severity rates and expected conditions over the remaining lives of the loans in the portfolio related to:

- lending policies and procedures;
- national, regional, and local economic business conditions and developments that affect the collectability of the portfolio, including the condition of various markets;
- the nature of the loan portfolio, including the terms of the loans;
- the experience, ability, and depth of the lending management and other relevant staff;
- the volume and severity of past due and adversely classified or graded loans and the volume of nonaccrual loans;
- the quality of the loan review and process;
- the value of underlying collateral for collateral-dependent loans;
- the existence and effect of any concentrations of credit and changes in the level of such concentrations; and
- the effect of external factors such as competition and legal and regulatory requirements on the level of estimated credit losses in the existing portfolio.

The Association's macroeconomic forecast includes a weighted selection of the Moody's baseline, upside 10th percent and downside 90th percent over reasonable and supportable forecast periods of three years. Subsequent to the forecast period, the Association reverts to long run historical loss experience beyond two years gradually after the determined forecast horizon using a transition function to inform the estimate of losses for the remaining contractual life of the loan portfolio.

The economic forecasts incorporate macroeconomic variables, including unemployment rates, Dow Jones Total Stock Market Index, and corporate bond spreads. Also considered are loan and borrower characteristics, such as internal risk ratings, delinquency status, collateral type, and the remaining term of the loan, adjusted for expected prepayments.

In addition to the quantitative calculation, the Association considers the imprecision inherent in the process and methodology, emerging risk assessments and other subjective factors, which may lead to a management adjustment to the modeled ACLL results. Expected credit loss estimates also include consideration of expected cash recoveries on loans previously charged-off or expected recoveries on collateral dependent loans where recovery is expected through sale of the collateral. The economic forecasts are updated on a quarterly basis.

Prior to January 1, 2023, the allowance for loan losses was maintained at a level considered adequate to provide for probable losses existing in and inherent in the loan portfolio. The allowance was based on a periodic evaluation of the loan portfolio in which numerous factors were considered, including economic conditions, collateral values, borrowers' financial conditions, loan portfolio composition, and prior loan loss experience. The allowance for loan losses encompassed various judgments, evaluations, and appraisals with respect to the loans and their underlying collateral that, by their nature, contain elements of uncertainty and imprecision. Changes in the agricultural economy and their impact on borrower repayment capacity would cause these various judgments, evaluations, and appraisals to change over time. Management considered a number of factors in determining and supporting the levels of the allowance for loan losses, which included, but were not limited to, the concentration of lending in agriculture, combined with uncertainties associated with farmland values, commodity prices, exports, government assistance programs, regional economic effects, and weather-related influences.

Allowance for Credit Losses on Unfunded Commitments

The Association evaluates the need for an allowance for credit losses on unfunded commitments under CECL and, if required, an amount is recognized and included in Other Liabilities on the Consolidated Balance Sheets. The amount of expected losses is determined by calculating a commitment usage factor over the contractual period for exposures that are not unconditionally cancellable by the Association and applying the loss factors used in the ACLL methodology to the results of the usage calculation. No allowance for credit losses is recorded for commitments that are unconditionally cancellable.

Note 2 — Loans and Allowance for Credit Losses

A summary of loans outstanding at period end follows:

	March 31, 2023	December 31, 2022
Real estate mortgage	$ 1,711,107	$ 1,707,687
Production and intermediate-term	548,622	626,462
Agribusiness:		
Loans to cooperatives	2,698	6,482
Processing and marketing	155,333	138,379
Farm-related business	43,720	47,538
Rural infrastructure:		
Communication	20,761	20,797
Power and water/waste disposal	1,711	402
Rural residential real estate	132,262	131,783
Other:		
International	2,516	1,706
Lease receivables	1,267	1,341
Other (including Mission Related)	206,641	190,805
Total loans	$ 2,826,638	$ 2,873,382

A substantial portion of the Association's lending activities is collateralized, and exposure to credit loss associated with lending activities is reduced accordingly.

The Association may purchase or sell participation interests with other parties in order to diversify risk, manage loan volume, and comply with FCA regulations. The following tables present the principal balance of participation loans at periods ended:

	March 31, 2023							
	Within AgFirst District		Within Farm Credit System		Outside Farm Credit System		Total	
	Participations Purchased	Participations Sold	Participations Purchased	Participations Sold	Participations Purchased	Participations Sold	Participations Purchased	Participations Sold
Real estate mortgage	$ 30,362	$ 209,174	$ –	$ 22,402	$ 120,722	$ –	$ 151,084	$ 231,576
Production and intermediate-term	36,851	197,306	–	6,722	5,113	–	41,964	204,028
Agribusiness	123,969	65,985	975	225	777	–	125,721	66,210
Rural infrastructure	22,548	–	–	–	–	–	22,548	–
Other	2,520	–	563	–	191,801	–	194,884	–
Total	$ 216,250	$ 472,465	$ 1,538	$ 29,349	$ 318,413	$ –	$ 536,201	$ 501,814

	December 31, 2022							
	Within AgFirst District		Within Farm Credit System		Outside Farm Credit System		Total	
	Participations Purchased	Participations Sold	Participations Purchased	Participations Sold	Participations Purchased	Participations Sold	Participations Purchased	Participations Sold
Real estate mortgage	$ 28,696	$ 213,988	$ –	$ 22,466	$ 117,637	$ –	$ 146,333	$ 236,454
Production and intermediate-term	33,175	156,464	–	6,525	6,009	–	39,184	162,989
Agribusiness	113,552	63,978	–	–	783	–	114,335	63,978
Rural infrastructure	21,270	–	–	–	–	–	21,270	–
Other	1,711	–	600	–	176,673	–	178,984	–
Total	$ 198,404	$ 434,430	$ 600	$ 28,991	$ 301,102	$ –	$ 500,106	$ 463,421

The following table shows the loans, classified under the FCA Uniform Loan Classification System, as a percentage of total loans by loan type as of:

	March 31, 2023	December 31, 2022*
Real estate mortgage:		
Acceptable	97.77%	97.14%
OAEM	0.64	1.05
Substandard/doubtful/loss	1.59	1.81
	100.00%	100.00%
Production and intermediate-term:		
Acceptable	95.79%	96.48%
OAEM	2.67	1.85
Substandard/doubtful/loss	1.54	1.67
	100.00%	100.00%
Agribusiness:		
Acceptable	94.87%	94.76%
OAEM	0.11	0.09
Substandard/doubtful/loss	5.02	5.15
	100.00%	100.00%
Rural infrastructure:		
Acceptable	100.00%	100.00%
OAEM	–	–
Substandard/doubtful/loss	–	–
	100.00%	100.00%
Rural residential real estate:		
Acceptable	97.39%	97.59%
OAEM	1.79	1.58
Substandard/doubtful/loss	0.82	0.83
	100.00%	100.00%
Other:		
Acceptable	100.00%	100.00%
OAEM	–	–
Substandard/doubtful/loss	–	–
	100.00%	100.00%
Total loans:		
Acceptable	97.34%	97.07%
OAEM	1.00	1.11
Substandard/doubtful/loss	1.66	1.82
	100.00%	100.00%

**Prior to adoption of CECL on January 1, 2023, loans were presented with accrued interest receivable.*

Accrued interest receivable on loans of $31,898 and $32,820 at March 31, 2023 and December 31, 2022, respectively, has been excluded from the amortized cost of loans and reported separately in the Consolidated Balance Sheets.

The following table provides an aging analysis of past due loans as of:

	March 31, 2023					
	30 Through 89 Days Past Due	90 Days or More Past Due	Total Past Due	Not Past Due or Less Than 30 Days Past Due	Total Loans	90 Days or More Past Due and Accruing
Real estate mortgage	$ 9,166	$ 1,947	$ 11,113	$ 1,699,994	$ 1,711,107	$ 1,548
Production and intermediate-term	211	191	402	548,219	548,621	109
Agribusiness	676	–	676	201,076	201,752	–
Rural infrastructure	–	–	–	22,472	22,472	–
Rural residential real estate	78	139	217	132,045	132,262	17
Other	–	9,075	9,075	201,349	210,424	9,075
Total	$ 10,131	$ 11,352	21,483	$ 2,805,155	$ 2,826,638	$ 10,749

Prior to the adoption of CECL, the aging analysis of past due loans reported included accrued interest as follows:

	December 31, 2022					
	30 Through 89 Days Past Due	90 Days or More Past Due	Total Past Due	Not Past Due or Less Than 30 Days Past Due	Total Loans	90 Days or More Past Due and Accruing
Real estate mortgage	$ 12,295	$ 1,607	$ 13,902	$ 1,715,566	$ 1,729,468	$ 1,144
Production and intermediate-term	3,796	54	3,850	631,577	635,427	–
Agribusiness	–	–	–	193,218	193,218	–
Rural infrastructure	–	–	–	21,230	21,230	–
Rural residential real estate	257	125	382	131,736	132,118	–
Other	9,184	–	9,184	185,557	194,741	–
Total	$ 25,532	$ 1,786	$ 27,318	$ 2,878,884	$ 2,906,202	$ 1,144

The following tables reflect nonperforming assets and related credit quality statistics as of:

	March 31, 2023
Nonaccrual loans:	
Real estate mortgage	$ 1,017
Production and intermediate-term	3,216
Agribusiness	1,297
Rural residential real estate	258
Total	$ 5,788
Accruing loans 90 days or more past due:	
Real estate mortgage	$ 1,548
Production and intermediate-term	109
Rural Residential Real Estate	17
Other	9,075
Total	$ 10,749
Total nonperforming loans	$ 16,537
Other property owned	–
Total nonperforming assets	$ 16,537
Nonaccrual loans as a percentage of total loans	0.20%
Nonperforming assets as a percentage of total loans and other property owned	0.59%
Nonperforming assets as a percentage of capital	3.40%

	December 31, 2022*
Nonaccrual loans:	
Real estate mortgage	$ 1,109
Production and intermediate-term	83
Agribusiness	1,063
Rural residential real estate	265
Total	$ 2,520
Accruing restructured loans:	
Production and intermediate-term	$ 529
Total	$ 529
Accruing loans 90 days or more past due:	
Real estate mortgage	$ 1,144
Total	$ 1,144
Total nonperforming loans	$ 4,193
Other property owned	–
Total nonperforming assets	$ 4,193
Nonaccrual loans as a percentage of total loans	0.09%
Nonperforming assets as a percentage of total loans and other property owned	0.15%
Nonperforming assets as a percentage of capital	0.88%

**Prior to adoption of CECL, nonperforming assets included accruing restructured loans and loans were presented including accrued interest receivable.*

The following table provides the amortized cost for nonaccrual loans, with and without a related allowance for loan losses, and interest income recognized on nonaccrual loans during the period:

	March 31, 2023			Three Months Ended March 31, 2023
Nonaccrual loans:	Amortized Cost with Allowance	Amortized Cost without Allowance	Total	Interest Income Recognized on Nonaccrual Loans
Real estate mortgage	$ –	$ 1,017	$ 1,017	$ 9
Production and intermediate-term	3,033	183	3,216	29
Agribusiness	681	616	1,297	11
Rural residential real estate	–	258	258	2
Total	$ 3,714	$ 2,074	$ 5,788	$ 51

Effective January 1, 2023, the Association adopted the CECL accounting guidance as described in Note 1. A summary of changes in the allowance for credit losses by portfolio segment is as follows:

	Real Estate Mortgage	Production and Intermediate-term	Agribusiness	Rural Infrastructure	Rural Residential Real Estate	Other	Total
Allowance for Loan Losses:							
Balance at December 31, 2022	$ 2,048	$ 3,078	$ 1,569	$ 43	$ 259	$ 8	$ 7,005
Cumulative effect of a change in accounting principle	1,542	(1,337)	148	(34)	89	2	410
Balance at January 1, 2023	$ 3,590	$ 1,741	$ 1,717	$ 9	$ 348	$ 10	$ 7,415
Charge-offs	–	–	–	–	–	–	–
Recoveries	–	–	–	–	–	–	–
Provision for loan losses	(1,271)	1,143	(90)	10	(17)	(2)	(227)
Balance at March 31, 2023	$ 2,319	$ 2,884	$ 1,627	$ 19	$ 331	$ 8	$ 7,188
Allowance for Unfunded Commitments:							
Balance at December 31, 2022	$ –	$ –	$ –	$ –	$ –	$ –	$ –
Cumulative effect of a change in accounting principle	74	275	157	4	18	2	530
Balance at January 1, 2023	$ 74	$ 275	$ 157	$ 4	$ 18	$ 2	$ 530
Provision for unfunded commitments	(22)	(39)	23	(1)	(2)	–	(41)
Balance at March 31, 2023	$ 52	$ 236	$ 180	$ 3	$ 16	$ 2	$ 489
Total allowance for credit losses	$ 2,371	$ 3,120	$ 1,807	$ 22	$ 347	$ 10	$ 7,677
Allowance for Loan Losses*:							
Balance at December 31, 2021	$ 3,131	$ 3,343	$ 545	$ 13	$ 272	$ 1	$ 7,305
Charge-offs	–	–	–	–	–	–	–
Recoveries	–	–	–	–	–	–	–
Provision for loan losses	(16)	(521)	54	1	(19)	6	(495)
Balance at March 31, 2022	$ 3,115	$ 2,822	$ 599	$ 14	$ 253	$ 7	$ 6,810

**For periods prior to January 1, 2023, the allowance for loan losses was based on probable and estimable losses inherent in the loan portfolio.*

Loan modifications may be granted to borrowers experiencing financial difficulty. Qualifying disclosable modifications are one, or a combination of, principal forgiveness, interest rate reduction, or a term or payment extension. Covenant waivers and modifications of contingent acceleration clauses are not considered term extensions. Modified loans to borrowers experiencing financial difficulty and activity on these loans were not material during the three months ended March 31, 2023. There were no material commitments to lend to borrowers experiencing financial difficulty whose loans have been modified at March 31, 2023.

The Association had no loans held for sale at March 31, 2023 and December 31, 2022.

Troubled Debt Restructurings

Prior to the adoption of updated FASB guidance on loan modifications on January 1, 2023, a restructuring of a loan constituted a troubled debt restructuring (TDR) if the creditor for economic or legal reasons related to the borrower's financial difficulties granted a concession to the borrower that it would not otherwise consider. Concessions varied by program, were borrower-specific, and could include interest rate reductions, term extensions, payment deferrals or the acceptance of additional collateral in lieu of payments. In limited circumstances, principal may have been forgiven. When a restructured loan constituted a TDR, these loans were included within impaired loans under nonaccrual or accruing restructured loans. There were no new TDRs that occurred during the three months ended March 31, 2022.

Interest concessions may include interest forgiveness and interest deferment. Principal concessions may include principal forgiveness, principal deferment, and maturity extension. Other concessions may include additional compensation received which might be in the form of cash or other assets.

There were no TDRs that occurred during the previous twelve months and for which there was a subsequent payment default during the three months ended March 31, 2022. Payment default is defined as a payment that was thirty days or more past due.

The following table provides information at period end on outstanding loans restructured in troubled debt restructurings. These loans were included as impaired loans:

	December 31, 2022*	
	Total TDRs	Nonaccrual TDRs
Production and intermediate-term	$ 529	$ –
Total loans	$ 529	$ –
Additional commitments to lend	$ –	

Prior to adoption of CECL on January 1, 2023, loans were presented with accrued interest receivable.

Note 3 — Investments

Investments in Debt Securities

The Association's investments consist of asset-backed securities (ABSs). These ABSs are issued through the Small Business Administration and are guaranteed by the full faith and credit of the United States government. They are held for managing risk. These securities meet the applicable FCA regulatory guidelines related to government agency guaranteed investments.

The Association's investments also consist of Rural America Bonds (RABs), which are private placement securities purchased under the Mission Related Investment (MRI) program approved by the FCA. In its Conditions of Approval for the program, the FCA generally considers a RAB ineligible if its investment rating, based on the internal 14-point probability of default scale used to also grade loans, falls below 9. The FCA requires System institutions to provide notification to FCA when a security becomes ineligible. Any other bonds purchased under the MRI program, approved on a case-by-case basis by FCA, may have different eligibility requirements. At March 31, 2023, the Association held no RABs whose credit quality had deteriorated beyond the program limits.

A summary of the amortized cost and fair value of investment securities held-to-maturity follows:

	March 31, 2023				
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value	Yield
RABs	$ 5,673	$ 56	$ (301)	$ 5,428	7.98%
ABSs	7,905	–	(1)	7,904	10.07
Total	$ 13,578	$ 56	$ (302)	$ 13,332	9.20%

	December 31, 2022				
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value	Yield
RABs	$ 5,691	$ –	$ (435)	$ 5,256	7.97%
ABSs	93	–	(2)	91	3.83
Total	$ 5,784	$ –	$ (437)	$ 5,347	7.91%

A summary of the contractual maturity, amortized cost and estimated fair value of investment securities held-to-maturity follows:

	March 31, 2023		
	Amortized Cost	Fair Value	Weighted Average Yield
In one year or less	$ –	$ –	–%
After one year through five years	2,664	2,636	10.27
After five years through ten years	7,905	7,904	10.07
After ten years	3,009	2,792	5.95
Total	$ 13,578	$13,332	9.20%

A portion of these investments has contractual maturities in excess of ten years. However, expected maturities for these types of securities can differ from contractual maturities because borrowers may have the right to prepay obligations with or without prepayment penalties.

An investment is considered impaired if its fair value is less than its cost. The following tables show the fair value and gross unrealized losses for investments that were in a continuous unrealized loss position aggregated by investment category at each reporting period. A continuous unrealized loss position for an investment is measured from the date the impairment was first identified. Following the adoption of CECL on January 1, 2023, this table is no longer required for held-to-maturity securities. Therefore, there is no table presented for the current period.

	December 31, 2022			
	Less Than 12 Months		12 Months Or Greater	
	Fair Value	Unrealized Losses	Fair Value	Unrealized Losses
RABs	$ 5,179	$ (418)	$ 77	$ (17)
ABSs	91	(2)	–	–
Total	$ 5,270	$ (420)	$ 77	$ (17)

The Association evaluates investment securities with unrealized losses for impairment on a quarterly basis. As part of this assessment, it was evaluated and concluded that the Association does not intend to sell the security, or it is more likely than not that the Association would be required to sell the security prior to recovery of the amortized cost basis. The Association also evaluates whether credit impairment exists by comparing the present value of expected cash flows to the securities amortized cost basis. Credit impairment, if any, is recorded as an ACL for debt securities. At March 31, 2023, the Association does not consider any unrealized losses to be credit-related and an allowance for credit losses is not necessary.

Equity Investments in Other Farm Credit System Institutions

Equity investments in other Farm Credit System institutions are generally nonmarketable investments consisting of stock and participation certificates, allocated surplus, and reciprocal investments in other institutions regulated by the FCA. These investments are carried at cost and evaluated for impairment based on the ultimate recoverability of the par value rather than by recognizing temporary declines in value.

Associations are required to maintain ownership in AgFirst (AgFirst or the Bank) in the form of Class B or Class C stock as determined by the Bank. The Bank may require additional capital contributions to maintain its capital requirements. The Association owned 8.99 percent of the issued stock and allocated retained earnings of the Bank as of March 31, 2023 net of any reciprocal investment. As of that date, the Bank's assets totaled $42.6 billion and shareholders' equity totaled $1.6 billion. The Bank's earnings were $70 million for the first three months of 2023. In addition, the Association held investments of $618 related to other Farm Credit institutions.

Note 4 — Debt

Notes Payable to AgFirst Farm Credit Bank

The Association's indebtedness to the Bank represents borrowings by the Association to fund its earning assets. This indebtedness is collateralized by a pledge of substantially all of the Association's assets. The contractual terms of the revolving line of credit are contained in the General Financing Agreement (GFA). The GFA also defines Association performance criteria for borrowing from the Bank, which includes borrowing base margin, earnings and capital covenants, among others.

Note 5 — Fair Value Measurement

Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability in an orderly transaction between market participants in the principal or most advantageous market for the asset or liability.

Accounting guidance establishes a hierarchy for disclosure of fair value measurements to maximize the use of observable inputs, that is, inputs that reflect the assumptions market participants would use in pricing an asset or liability based on market data obtained from sources independent of the reporting entity. The hierarchy is based upon the transparency of inputs to the valuation of an asset or liability as of the measurement date. A financial instrument's categorization within the hierarchy tiers is based upon the lowest level of input that is significant to the fair value measurement.

The classifications within the fair value hierarchy are as follows:

Level 1 inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets.

Level 2 inputs include quoted prices for similar assets and liabilities in active markets; quoted prices in markets that are not active; and inputs that are observable, or can be corroborated, for substantially the full term of the asset or liability.

Level 3 inputs are unobservable and supported by little or no market activity. Valuation is determined using pricing models, discounted cash flow methodologies, or similar techniques, and could include significant management judgment or estimation. Level 3 assets and liabilities also could include instruments whose price has been adjusted based on dealer quoted pricing that is different than the third-party valuation or internal model pricing.

For a complete discussion of the inputs and other assumptions considered in assigning various assets and liabilities to the fair value hierarchy levels, see the latest Annual Report to Shareholders.

There were no Level 3 assets or liabilities measured at fair value on a recurring basis for the periods presented. The Association had no transfers of assets or liabilities into or out of Level 1 or Level 2 during the periods presented.

Fair values are estimated at each period end date for assets and liabilities measured at fair value on a recurring basis. The following tables summarize assets measured at fair value at period end.

	March 31, 2023			
	Fair Value Measurement Using			Total Fair
	Level 1	Level 2	Level 3	Value
Recurring assets				
Assets held in trust funds	$ 1,468	$ –	$ –	$ 1,468
Nonrecurring assets				
Nonaccrual loans	$ –	$ –	$ 2,393	$ 2,393
Other property owned	$ –	$ –	$ –	$ –
Other investments	$ –	$ –	$ 3,384	$ 3,384

	December 31, 2022			
	Fair Value Measurement Using			Total Fair
	Level 1	Level 2	Level 3	Value
Recurring assets				
Assets held in trust funds	$ 1,124	$ –	$ –	$ 1,124
Nonrecurring assets				
Impaired loans*	$ –	$ –	$ 659	$ 659
Other property owned	$ –	$ –	$ –	$ –
Other investments	$ –	$ –	$ 3,384	$ 3,384

**Prior to the adoption of CECL on January 1, 2023, the fair value of impaired loans included accruing restructured loans and loans past due 90 days and accruing.*

Valuation Techniques

Assets held in trust funds
Assets held in trust funds, related to deferred compensation plans, are classified as Level 1. The trust funds include investments in securities that are actively traded and have quoted net asset value prices that are directly observable in the marketplace.

Nonaccrual loans
Fair values of nonaccrual loans are estimated to be the carrying amount of the loan less specific reserves. Certain loans evaluated for impairment under FASB guidance have fair values based upon the underlying collateral, as the loans were collateral-dependent. Specific reserves were established for these loans when the value of the collateral, less estimated cost to sell, was less than the principal balance of the loan. The fair value measurement process uses independent appraisals and other market-based information, but in many cases it also requires significant input based on management's knowledge of and judgment about current market conditions, specific issues relating to the collateral and other matters.

Other property owned
For other property owned, the fair value is generally determined using formal appraisals of each individual property. These assets are held for sale. Costs to sell represent transaction costs and are not included as a component of the fair value of other property owned. If the process uses observable market-based information, the assets are classified as Level 2. If the process requires significant input based upon management's knowledge of and judgment about current market conditions, specific issues relating to the property and other matters, the assets are classified as Level 3.

Other investments
There are no observable market values for the Association's RBIC investments. These investments are measured at cost, adjusted for any observable sales and impairment.

Note 6 — Employee Benefit Plans

The following is a table of retirement and other postretirement benefit expenses for the Association:

	Three Months Ended March 31,	
	2023	**2022**
Pension	$ 189	$ 208
401(k)	247	247
Other postretirement benefits	71	52
Total	$ 507	$ 507

Expenses in the above table are computed using allocated estimates of funding for multi-employer plans in which the Association participates. These amounts may change when a total funding amount and allocation is determined by the respective Plan's Sponsor Committee. Also, market conditions could impact discount rates and return on plan assets which could change contributions necessary before the next plan measurement date of December 31, 2023.

Further details regarding employee benefit plans are contained in the 2022 Annual Report to Shareholders.

Note 7 — Commitments and Contingent Liabilities

From time to time, legal actions are pending against the Association in which claims for money damages are asserted. On at least a quarterly basis, the Association assesses its liabilities and contingencies in connection with outstanding legal proceedings utilizing the latest information available. While the outcome of legal proceedings is inherently uncertain, on the basis of information presently available, management, after consultation with legal counsel, is of the opinion that the ultimate liability, if any, from these actions, would not be material in relation to the financial position of the Association. Because it is remote that the Association will incur a loss or the loss is not estimable, no liability has been recorded for any claims that may be pending.

Note 8 — Subsequent Events

The Association evaluated subsequent events and determined there were none requiring disclosure through May 9, 2023, which was the date the financial statements were issued.