

# SECOND OUARTER 2019

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#### CERTIFICATION

The undersigned certify that we have reviewed the June 30, 2019 quarterly report of AgFirst Farm Credit Bank, 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.

Curtis R. Hancock, Jr.

Leon T. Amerson Chief Executive Officer & President

Stephen Gilbert

Chief Financial Officer

Chairman of the Board

August 8, 2019

#### Report on Internal Control Over Financial Reporting

The Bank'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 Bank's 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 Bank's principal executives and principal financial officers, or persons performing similar functions, and effected by its Board of Directors, management and other personnel. This process provides reasonable assurance regarding the reliability of financial reporting information and the preparation of the Financial Statements for external purposes in accordance with accounting principles generally accepted in the United States of America.

Internal control over financial reporting includes those policies and procedures that: (1) pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the Bank, (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 Bank, and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the Bank's assets that could have a material effect on its Financial Statements.

The Bank's management has completed an assessment of the effectiveness of internal control over financial reporting as of June 30, 2019. 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 Bank's management concluded that as of June 30, 2019, the internal control over financial reporting was effective based upon the COSO criteria. Additionally, based on this assessment, the Bank's management determined that there were no material weaknesses in the internal control over financial reporting as of June 30, 2019.

Leon T. Amerson

Chief Executive Officer & President

Chief Financial Officer

August 8, 2019

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

The following discussion reviews the financial condition and results of operations of AgFirst Farm Credit Bank (AgFirst or Bank) as of and for the three and six month periods ended June 30, 2019. These comments should be read in conjunction with the accompanying financial statements, the Notes to the Financial Statements, and the 2018 Annual Report of AgFirst Farm Credit Bank. AgFirst and its related associations (Associations or District Associations) are collectively referred to as the District. The accompanying financial statements were prepared under the oversight of the Audit Committee of the AgFirst Board of Directors.

Key ratios and data reported below, and in the accompanying financial statements, address the financial performance of AgFirst. However, neither the three months nor the six months results of operations may be indicative of an entire year due to the seasonal nature of a portion of AgFirst's business.

#### FORWARD-LOOKING INFORMATION

This quarterly report contains forward-looking statements. These statements are not guarantees of future performance and involve certain risks, uncertainties, and assumptions that are difficult to predict. Words such as "anticipates," "believes," "could," "estimates," "may," "should," "will," or other variations of these terms are intended to identify the forward-looking statements. These statements are based on assumptions and analyses made in light of experience and other historical trends, current conditions, and expected future developments. However, actual results and developments may differ materially from AgFirst's expectations and predictions due to a number of risks and uncertainties, many of which are beyond AgFirst's control. These risks and uncertainties include, but are not limited to:

- political (including trade policies), legal, regulatory, financial markets, and economic conditions and developments in the United States (U.S.) and abroad;
- economic fluctuations in the agricultural, rural infrastructure, international, and farm-related business sectors, as well as in the general economy;
- weather-related, disease, and other adverse climatic or biological conditions that periodically occur which impact agricultural productivity and income of District borrowers;
- changes in U.S. government support of the agricultural industry and the Farm Credit System (System as a government-sponsored enterprise GSE), as well as investor and rating agency reactions to events involving the U.S. government, other GSEs and other financial institutions;
- actions taken by the Federal Reserve System in implementing monetary and fiscal policy, as well as other
  policies and actions of the federal government that impact the financial services industry and the debt
  markets;
- credit, interest rate and liquidity risk inherent in lending activities;
- the replacement of LIBOR and the implementation of Secured Overnight Financing Rate (SOFR) or another benchmark interest rate; and
- changes in the Bank's assumptions for determining the allowance for loan losses, other-than-temporary impairment and fair value measurements.

#### FINANCIAL CONDITION

#### Loan Portfolio

AgFirst's loan portfolio consists of direct loans to District Associations (Direct Notes), loan participations/syndications purchased, Correspondent Lending loans (primarily first lien rural residential mortgages), and loans to Other Financing Institutions (OFIs) as shown below:

Loan Portfolio	June 30,	December 31,	June 30,	June 2019 compared to December 2018	June 2019 compared to June 2018
(dollars in thousands)	2019	2018	2018	\$ Change % Change	\$ Change % Change
Direct Notes*	\$ 16,551,228	\$ 16,414,045	\$ 15,910,104	\$ 137,183 0.84%	\$ 641,124 4.03%
Participations/Syndications Purchased, Net*	4,568,462	4,465,453	4,119,819	103,009 2.31%	448,643 10.89%
Correspondent Lending	3,371,229	3,261,996	3,138,132	109,233 3.35%	233,097 7.43%
Loans to OFIs	136,266	134,387	139,742	1,879_ 1.40%	3,476 2.49 %
Total	\$ 24,627,185	\$ 24,275,881	\$ 23,307,797	\$ 351,304 1.45%	\$1,319,388 5.66%

	Portfolio Distribution							
•	June 30, 2019	December 31, 2018	June 30, 2018					
Direct Notes	67.21%	67.61%	68.26%					
Participations/Syndications Purchased, Net	18.55%	18.40%	17.68%					
Correspondent Lending	13.69%	13.44%	13.46%					
Loans to OFIs	0.55%	0.55%	0.60%					
Total	100.00%	100.00%	100.00%					

<sup>\*</sup>Net of participations sold.

Total loans outstanding were \$24.627 billion at June 30, 2019, an increase of \$351.3 million, or 1.45 percent, compared to total loans outstanding at December 31, 2018 and an increase of \$1.319 billion, or 5.66 percent, since June 30, 2018.

Growth in the total loan portfolio since year end was primarily due to growth in the forestry and rural home loans segments. Compared to June 30, 2018, loan growth benefited from increases in the forestry, rural home loans, utilities, swine, and poultry segments.

#### Credit Quality

Credit quality of AgFirst's loans is shown below:

_	Total Lo	oan Portfolio Credit Quali	ty as of:
Classification	June 30, 2019	December 31, 2018	June 30, 2018
Acceptable	93.62%	93.80%	99.76%
OAEM	6.18%	6.07%	0.10%
Adverse **	0.20%	0.13%	0.14%

Other Assets Especially Mentioned. Adverse loans include substandard, doubtful, and loss loans.

The decline in credit quality for June 30, 2019 compared to June 30, 2018 reflected in the table above was primarily due to a decline in the credit quality of a single Direct Note in the fourth quarter of 2018 which is discussed in the *Direct Notes* section below. Bank credit quality, primarily in the Participations/Syndications and Correspondent Lending portfolios, is expected to slightly deteriorate given expected reduced farm income, higher farm debt, prior years' weather events, and uncertainty surrounding global trade issues.

#### **Direct Notes**

AgFirst's primary business is to provide funding, operational support, and technology services to District Associations. Each Association, in addition to the Bank, is a federally chartered instrumentality of the United States and is regulated by the Farm Credit Administration (FCA. AgFirst provides a revolving line of credit, referred to as a Direct Note, to each of the District Associations. Each of the Associations funds its lending and general corporate activities primarily by borrowing under its Direct Note. Lending terms are specified in a separate General Financing Agreement (GFA) between AgFirst and each Association. Each GFA contains minimum borrowing base margin, capital, and earnings requirements that must be maintained by the Association.

At June 30, 2019, the total Direct Note volume outstanding was \$16.551 billion, an increase of \$137.2 million, or 0.84 percent, compared to December 31, 2018. Compared to June 30, 2018, Direct Note volume increased \$641.1 million, or 4.03 percent. See the *Loan Portfolio* section above for the primary reasons for the change in Direct Notes.

		]	Direct Note Credit	t Quality as o	of:	
	June 30, 2	2019	December 31	1, 2018	June 30, 2	2018
	%	#	%	#	%	#
Classification	Total	Total	Total	Total	Total	Total
Acceptable	91.47%	18	91.33%	18	100.00%	19
OAEM	8.53%	1	8.67%	1	-%	-
Adverse	_%	_	_%	_	-%	_

Other Assets Especially Mentioned Adverse loans include substandard, doubtful, and loss loans.

As reflected in the table above, one Direct Note was classified as OAEM at June 30, 2019 and December 31, 2018.

At June 30, 2019, no District Associations were operating under a written agreement with the FCA. One Association, which had total assets of \$1.877 billion, was operating under a special credit agreement pursuant to its GFA as of June 30, 2019. The GFA events of default are not expected to have an adverse impact on the Bank's or District's financial condition or results of operations.

Presently, collection of the full Direct Note amount due is expected from all Associations in accordance with the contractual terms of the debt arrangements, and no allowance has been recorded for any Direct Notes. Virtually all assets of the District Associations are pledged as collateral for their respective Direct Notes. In the opinion of management, all Association Direct Notes are adequately collateralized. The risk funds of an Association, including both capital and the allowance for loan losses, also protect the interest of the Bank should a Direct Note default.

#### Participations/Syndications

The Participations/Syndications portfolio consists of loan participations and syndications purchased primarily from other System institutions and commercial banks. As of June 30, 2019, this portfolio totaled \$4.568 billion, an increase of \$103.0 million, or 2.31 percent, from December 31, 2018 and an increase of \$448.6 million, or 10.89 percent, from June 30, 2018. This increase is primarily due to additional capital markets transactions coming to market.

AgFirst employs a number of management techniques to limit credit risk, including underwriting standards, limits on the amounts of loans purchased from a single originator, and maximum hold positions to a single borrower and commodity. Although the participations/syndications portfolio is comprised of a small number of relatively large loans, it is diversified both geographically and on a commodity basis. Management makes adjustments to credit policy and underwriting standards when appropriate as a part of the ongoing risk management process.

Credit quality statistics for the participations/syndications portfolio are shown in the following chart:

Participations/S	vndications	Credit O	nality as of
rarucidadions/s	viiuications	Credit O	uanty as or:

Classification	June 30, 2019	December 31, 2018	June 30, 2018
Acceptable	96.76%	98.37%	98.82%
OAEM	2.42%	1.17%	0.57%
Adverse**	0.82%	0.46%	0.61%

Other Assets Especially Mentioned. Adverse loans include substandard, doubtful, and loss loans.

Credit quality in the participations/syndications portfolio has declined slightly from prior periods as anticipated, but remains favorable due to continued positive general economic performance.

#### **Correspondent Lending**

The Correspondent Lending portfolio consists primarily of first lien residential mortgages purchased from Associations. As of June 30, 2019, the Correspondent Lending portfolio totaled \$3.371 billion, an increase of \$109.2 million, or 3.35 percent, from December 31, 2018 and an increase of \$233.1 million, or 7.43 percent, from June 30, 2018. The increase was due primarily to the continued favorable interest rate environment.

As of June 30, 2019, \$1.238 billion, or 36.72 percent, of loans in the Correspondent Lending portfolio were guaranteed and \$2.133 billion, or 63.28 percent, were non-guaranteed. The guarantees, from the Federal National Mortgage Association (Fannie Mae) and/or Federal Agricultural Mortgage Corporation (Farmer Mac), are in the form of Long-Term Standby Commitments to Purchase which give AgFirst the right to deliver delinquent loans to the guarantor at par. Non-guaranteed loans are reflected in the Bank's allowance for loan losses methodology related to this portfolio.

At June 30, 2019, 99.65 percent of the Correspondent Lending portfolio was classified as acceptable and 0.35 percent was classified as adverse.

#### Nonaccrual Loans

Nonaccrual loans represent all loans for which there is a reasonable doubt as to the collection of principal and/or interest under the contractual terms of the loan. Nonaccrual loans for the Bank totaled \$24.4 million at June 30, 2019, a decrease of 1.55 percent compared to \$24.7 million at December 31, 2018. At June 30, 2019, total nonaccrual loans were primarily classified in the rural home loan (69.64 percent of the total) and field crops (29.87 percent) segments. Nonaccrual loans were 0.10 percent of total loans outstanding at both June 30, 2019 and December 31, 2018.

#### Troubled Debt Restructurings

A troubled debt restructuring TDR occurs when a borrower is experiencing financial difficulties and a concession is granted to the borrower that the Bank would not otherwise consider. Concessions are granted to borrowers based on either an assessment of the borrower's ability to return to financial viability or a court order. The concessions can be in the form of a modification of terms, rates, or amounts owed. Acceptance of other assets and/or equity as payment may also be considered a concession. The type of alternative financing granted is chosen in order to minimize the loss incurred by the Bank. TDRs increased \$915 thousand since December 31, 2018 and totaled \$26.3 million at June 30, 2019. TDRs at June 30, 2019 were comprised of \$15.7 million of accruing restructured loans and \$10.5 million of nonaccrual restructured loans. Restructured loans were primarily in the field crops (29.87 percent of the total), nursery/greenhouse 27.85 percent), and rural home loan (22.40 percent) segments.

#### Other Property Owned

Other property owned (OPO) consists primarily of assets once pledged as loan collateral that were acquired through foreclosure or deeded to the Bank (or a lender group) in satisfaction of secured loans. OPO may be comprised of

real estate, equipment, and equity interests in companies or partnerships. OPO decreased \$101 thousand since December 31, 2018 and totaled \$2.7 million at June 30, 2019. At June 30, 2019, the OPO balance consisted primarily of one real estate holding in the forestry segment totaling \$2.6 million (93.97 percent of the total OPO balance.

#### Allowance for Loan Losses

The Bank maintains an allowance for loan losses at a level management considers adequate to provide for probable and estimable credit losses within the loan portfolio as of each reported balance sheet date. The allowance for loan losses was \$18.7 million at June 30, 2019, as compared with \$18.0 million at December 31, 2018. The allowance at June 30, 2019 included specific reserves of \$3.7 million (20.04 percent of the total) and general reserves of \$15.0 million (79.96 percent). See *Provision for Loan Losses* section below for additional details regarding loan loss provision expense and reversals included in the net provision expense of \$353 thousand recorded during the first six months of 2019. The general reserves at June 30, 2019 included \$4.5 million of allowance provided by the Bank for non-guaranteed loans in the Correspondent Lending portfolio. See further discussion in the *Correspondent Lending* section above. None of the allowance relates to the Direct Note portfolio. See further discussion in the *Direct Notes* section above. The total allowance at June 30, 2019 was comprised primarily of reserves for the rural home loan (25.76 percent of the total), field crops (20.35 percent), utilities (10.31 percent), nursery/greenhouse (8.17 percent), and processing (7.97 percent segments. The allowance for loan losses was 0.08 percent and 0.07 percent of total loans outstanding at June 30, 2019 and December 31, 2018, respectively. See Note 2, *Loans and Allowance for Loan Losses*, in the Notes to the Financial Statements for further information.

#### Liquidity and Funding Sources

One of AgFirst's primary responsibilities is to maintain sufficient liquidity to fund the lending operations of the District Associations, in addition to its own needs. Along with normal cash flows associated with lending operations, AgFirst has two principal sources of liquidity: the capacity to issue Systemwide Debt Securities through the Federal Farm Credit Banks Funding Corporation; and cash and investments. The Bank also has investment securities repurchase agreements in place with several commercial banks for commitments totaling approximately \$6.1 billion. A standard repurchase agreement involves the acquisition of immediately available funds through the sale of securities with a simultaneous commitment to repurchase the same securities on a certain date within one year at a specified price, including interest at an agreed upon rate. In addition, the System has established lines of credit in the event contingency funding is needed to meet obligations of System banks.

The U.S. government does not guarantee, directly or indirectly, Systemwide Debt Securities. However, the Farm Credit System, as a GSE, has benefited from broad access to the domestic and global capital markets due to the implied link between the credit rating of the System and the U.S. government, given the System's status as a GSE. This access has provided the System with a dependable source of competitively priced debt which is critical for supporting the System's mission of providing credit to agriculture and rural America. Continued concerns regarding the government's borrowing limit and budget imbalances could pose risk to the System in the future.

AgFirst's primary source of liquidity comes from its ability to issue Systemwide Debt Securities, which are the general unsecured joint and several obligations of the System banks. AgFirst continually raises funds in the debt markets to support its mission, to repay maturing Systemwide Debt Securities, and to meet other obligations.

The System does not have a guaranteed line of credit from the U.S. Treasury or the Federal Reserve. However, the Farm Credit System Insurance Corporation FCSIC) has an agreement with the Federal Financing Bank (FFB), a federal instrumentality subject to the supervision and direction of the U.S. Treasury, pursuant to which the FFB could advance funds to the FCSIC. Under its existing statutory authority, the FCSIC may use these funds to provide assistance to the System banks in exigent market circumstances which threaten the banks' ability to pay maturing debt obligations. The agreement provides for advances of up to \$10 billion and terminates on September 30, 2019, unless otherwise renewed. The decision whether to seek funds from the FFB is at the discretion of the FCSIC. Each funding obligation of the FFB is subject to various terms and conditions and, as a result, there can be no assurance that funding would be available if needed by AgFirst or the System.

Currently, Moody's Investor Service and Fitch Ratings have assigned long-term debt ratings for the System of Aaa and AAA and short-term debt ratings of P-1 and F1, respectively. These are the highest ratings available from these rating agencies. S&P Global Ratings S&P) maintains the long-term debt rating of the System at AA+, which directly corresponds to its AA+ long-term sovereign credit rating of the U.S. government. These rating agencies base their ratings on many quantitative and qualitative factors, including the System's status as a GSE. Negative changes to the System's credit ratings could reduce earnings by increasing debt funding costs and could also have a material adverse effect on liquidity, the ability to conduct normal business operations, and the Bank's overall financial condition and results of operations. However, AgFirst anticipates continued access to funding necessary to support the District's and Bank's needs.

At June 30, 2019, AgFirst had \$31.136 billion in total debt outstanding compared to \$30.382 billion at December 31, 2018, an increase of \$754.5 million, or 2.48 percent. Debt increased primarily due to higher loan volume as discussed elsewhere in this report.

Cash and cash equivalents, which increased \$386.7 million from December 31, 2018 to a total of \$908.2 million at June 30, 2019, consist primarily of cash on deposit and money market securities that are short-term in nature (from overnight maturities to maturities that range up to 90 days). Incremental movements in cash balances between reporting periods are due primarily to changes in liquidity needs in relation to upcoming debt maturities.

Investments in debt securities totaled \$7.919 billion, or 23.46 percent of total assets at June 30, 2019, compared to \$7.981 billion, or 24.13 percent, as of December 31, 2018, a decrease of \$62.3 million, or 0.78 percent. The majority of investments, \$7.879 billion as of June 30, 2019, are classified as being available for sale. Available-for-sale investments at June 30, 2019 included \$242.5 million in U.S. Treasury securities, \$4.614 billion in U.S. government guaranteed securities, \$2.239 billion in U.S. government agency guaranteed securities, and \$783.6 million in non-agency asset-backed securities. Since the majority of the portfolio is invested in U.S. government guaranteed and agency securities, the portfolio is highly liquid and potential credit loss exposure is limited. See Note 3, *Investments*, in the Notes to the Financial Statements for further information regarding types of securities that may be held under applicable FCA guidelines.

Management maintains the available-for-sale liquidity investment portfolio size generally proportionate with that of the loan portfolio and within regulatory and policy guidelines which provide that a System bank may hold certain eligible available-for-sale investments in an amount not to exceed 35.00 percent of its total loans outstanding. Based upon FCA guidelines, at June 30, 2019, the Bank's eligible available-for-sale investments were 33.95 percent of the total loans outstanding.

As of June 30, 2019, AgFirst exceeded all applicable regulatory liquidity requirements. FCA regulations require that the Bank have a liquidity policy that establishes a minimum total "coverage" level of 90 days and that short-term liquidity requirements must be met by certain high quality investments or cash. "Coverage" is defined as the number of days that maturing debt could be funded with eligible cash, cash equivalents, and available-for-sale investments maintained by the Bank.

The FCA classifies eligible liquidity investments according to four liquidity quality levels with level 1 being the most liquid. The first 15 days of minimum liquidity coverage are met using only level 1 instruments, which include cash and cash equivalents. Days 16 through 30 of minimum liquidity coverage are met using level 1 and level 2 instruments. Level 2 consists primarily of U.S. government guaranteed securities. Days 31 through 90 are met using level 1, level 2, and level 3 securities. Level 3 consists primarily of U.S. government agency investments. The fourth level is a supplemental liquidity buffer which is set to provide coverage to at least 120 days and which consists of level 1, level 2, and level 3 instruments in excess of the 90-day minimum liquidity reserve and asset-backed securities ABSs).

At June 30, 2019, AgFirst met each of the individual level criteria above and had a total of 235 days of maturing debt coverage compared to 217 days at December 31, 2018. The increase resulted from a change in the timing of upcoming debt maturities. Cash provided by the Bank's operating activities is an additional source of liquidity for the Bank that is not reflected in the coverage calculation.

See Note 3, Investments, and Note 4, Debt, in the Notes to the Financial Statements for further information.

#### Capital

Total shareholders' equity increased \$242.6 million, or 10.91 percent, from December 31, 2018 to \$2.466 billion at June 30, 2019. This increase is primarily attributed to 2019 unallocated retained earnings from net income of \$130.6 million and an increase in net unrealized gains of \$115.3 million on investments primarily due to a decrease in interest rates increasing the fair value of existing available-for-sale fixed-rate investment securities.

#### Regulatory Capital Ratios

AgFirst's regulatory ratios are shown in the following table:

	Regulatory Minimum,			
	Including Buffer*	6/30/19	12/31/18	6/30/18
Permanent Capital Ratio	7.00%	19.36%	21.67%	20.98%
Common Equity Tier 1 (CET1) Capital Ratio	7.00%	18.92%	21.20%	20.50%
Tier 1 Capital Ratio	8.50%	19.33%	21.64%	20.95%
Total Regulatory Capital Ratio	10.50%	19.48%	21.79%	21.09%
Tier 1 Leverage Ratio	5.00%	6.96%	7.53%	7.27%
Unallocated Retained Earnings (URE) and URE Equivalents				
Leverage Ratio	1.50%	6.00%	6.58%	6.30%

Includes fully phased-in capital conservation buffers which will be effective January 1, 2020.

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 the ratios listed in the schedule above.

The permanent capital, CET1, tier 1 capital, 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. 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. Unlike these ratios, the tier 1 leverage and URE and URE equivalents leverage ratios do not incorporate any risk-adjusted weighting of assets. 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, AgFirst exceeded minimum regulatory standards for all of the ratios. The Bank's capital ratios, which are calculated using a three-month average daily balance for both capital and assets, declined at June 30, 2019 compared to December 31, 2018 and June 30, 2018. Total Bank declared patronage of \$298.2 million in 2018, which represented approximately 97.46 percent of 2018 net income and was accrued on December 31, 2018, was reflected in the December 31, 2018 ratios for only one day, but was fully reflected in the ratios at June 30, 2019. Higher average risk-weighted asset and total asset levels in the 2019 period also contributed to the decline in capital ratios compared to December 31, 2018 and were the primary reason for the decline in capital ratios compared to June 30, 2018.

#### RESULTS OF OPERATIONS

Net income for the three months ended June 30, 2019 was \$63.2 million compared to \$73.2 million for the three months ended June 30, 2018, a decrease of \$10.1 million, or 13.75 percent. Net income for the six months ended June 30, 2019 was \$130.6 million compared to \$152.4 million for the six months ended June 30, 2018, a decrease of \$21.8 million or 14.33 percent. See below for further discussion of the change in net income by major components.

#### Key Results of Operations Comparisons

	Annualized for the		Annualized for the
	Six Months Ended June 30, 2019	For the Year Ended December 31, 2018	Six Months Ended June 30, 2018
Return on average assets	0.80%	0.95%	0.97%
Return on average shareholders' equity	11.31%	13.03%	13.42%
Net interest margin	1.21%	1.29%	1.31%
Operating expense as a percentage of net interest income and			
noninterest income	34.46%	30.61%	30.43%
Net (charge-offs) recoveries to average loans	0.00%	0.00%	0.00%

The annualized return on average assets and return on average shareholders' equity ratios declined for the first six months of 2019 compared to the same period in 2018 and to the year ended December 31, 2018 due primarily to lower annualized net income. The lower net interest margin ratio in 2019 compared to both prior periods was due to higher earning asset levels and lower net interest income resulting from higher debt costs in the 2019 period.

For the operating expense as a percentage of net interest income and noninterest income ratio, operating expense consists primarily of noninterest expenses excluding losses gains from other property owned. This ratio was negatively impacted primarily by lower net interest income and noninterest income in the 2019 period compared to both prior periods. The net charge-offs) recoveries to average loans ratio remained constant for all periods presented due to minimal net (charge-offs) recoveries. See *Allowance for Loan Losses*, *Net Interest Income*, *Noninterest Income*, and *Noninterest Expenses* sections for further discussion.

#### Net Interest Income

Net interest income for the three months ended June 30, 2019 was \$99.1 million compared to \$100.7 million for the same period of 2018, a decrease of \$1.6 million or 1.63 percent. For the six months ended June 30, 2019, net interest income was \$195.8 million compared to \$203.3 million for the same period of 2018, a decrease of \$7.6 million, or 3.72 percent. The net interest margin, which is net interest income as a percentage of average earning assets, was 1.21 percent for both the three and six month periods of 2019, decreases of eight and ten basis points, respectively, compared to the same periods in the prior year. The decrease in net interest income primarily resulted from higher rates paid on interest-bearing liabilities, partially offset by the positive impact of higher yields on interest-earning assets.

The Bank called debt totaling \$5.075 billion for the six months ended June 30, 2019. No bonds were called for the same period in the prior year. Although net interest margin is enhanced when bonds are called, over time, as interest rates change and as assets prepay or reprice, the positive impact on the Bank's net interest margin from calling debt will diminish.

The effects of changes in volume and interest rates on net interest income for the three and six months ended June 30, 2019, as compared with the corresponding periods in 2018, are presented in the following table. The table distinguishes between the changes in interest income and interest expense related to average outstanding balances and to the levels of average interest rates.

			hree Mont 019 vs. Jun			For the Six Months Ended June 30, 2019 vs. June 30, 2018						
	Increase	(deci	ease) due	to ch	anges in:	I	Increase (decrease) due to changes in:					
(dollars in thousands)	Volume		Rate		Total	1	olume		Rate		Total	
Interest Income:												
Loans	\$ 11,344	\$	17,898	\$	29,242	\$	20,845	\$	41,320	\$	62,165	
Investments & Cash Equivalents	74		8,038		7,964		1,469		21,574		20,105	
Other	1,308		106		1,202		2,613		106		2,507	
Total Interest Income	12,578		25,830		38,408		21,989		62,788		84,777	
Interest Expense:	ŕ		ŕ		· ·						ŕ	
Interest-Bearing Liabilities	7,695		32,358		40,053		13,038		79,294		92,332	
Changes in Net Interest Income	\$ 4,883	\$	6,528	\$	1,645	\$	8,951	\$	16,506	\$	7,555	

#### **Provision for Loan Losses**

AgFirst measures risks inherent in its loan portfolio on an ongoing basis and, as necessary, recognizes provision for loan loss expense so that appropriate reserves for loan losses are maintained. Loan loss provision was a net expense of \$444 thousand and \$353 thousand for the three and six months ended June 30, 2019, respectively, compared to net provision reversal of \$161 thousand and a net expense of \$1.3 million for the corresponding periods in 2018.

For the three and six month periods ended June 30, 2019, the provision for loan losses included net provision reversals for specific reserves of \$120 thousand and \$1.4 million, respectively, and net provision expense for general reserves of \$565 thousand and \$1.7 million. Total net provision expense for the three months ended June 30, 2019 resulted primarily from \$510 thousand expense in the nursery/greenhouse segment. For the six month period in 2019, the provision for loan losses primarily related to borrowers in the nursery/greenhouse (\$682 thousand expense), utilities (\$469 thousand expense), and field crops (\$709 thousand reversal) segments.

For the three and six month periods ended June 30, 2018, the provision for loan losses included net provision expense for specific reserves of \$233 thousand and \$2.2 million, respectively, and net provision reversals for general reserves of \$394 thousand and \$893 thousand. Both the provision expense for specific reserves and the provision reversal for general reserves for the 2018 periods were largely driven by one loan relationship in the field crops segment. Reductions in principal balances also contributed to the reversal of provision for general reserves. Total net provision reversal for the three months ended June 30, 2018 primarily related to borrowers in the tree fruits and nuts (\$196 thousand reversal), cattle (\$187 thousand reversal), and forestry (\$260 thousand expense) segments. For the six month period in 2018, the provision for loan losses resulted primarily from \$1.4 million expense in the field crops segment.

See Note 2, Loans and Allowance for Loan Losses, in the Notes to the Financial Statements for further information.

#### Noninterest Income

The following table illustrates the changes in noninterest income:

Change in Noninterest Income	For the Three Months Ended June 30,				For the Six Months Ended June 30,							
					]	Increase/					I	ncrease/
(dollars in thousands)		2019		2018	(1	Decrease)		2019		2018	(I	Decrease)
Loan fees	\$	2,136	\$	2,040	\$	96	\$	4,119	\$	3,973	\$	146
Building lease income		1,290		832		458		1,990		1,677		313
Gains (losses) on debt extinguishment		5,163)		150		5,313)		8,376)		150		8,526)
Gains (losses) on other transactions		343)		775		1,118)		259)		1,394		1,653)
Insurance premium refund		_		_		_		2,620		6,330		3,710)
Other noninterest income		1,444		1,978		534)		4,025		4,120		95
Total noninterest income	\$	636	\$	5,775	\$	6,411	\$	4,119	\$	17,644	\$	13,525

For the three and six months ended June 30, 2019 compared to the corresponding periods in 2018, noninterest income decreased \$6.4 million and \$13.5 million, respectively. Significant line item dollar variances are discussed below.

Debt issuance expense is amortized over the life of the underlying debt security. When debt securities are called prior to maturity, any unamortized issuance cost is expensed. Losses on debt extinguishment increased \$5.3 million and \$8.5 million for the three and six months ended June 30, 2019, respectively, compared to the same periods in 2018. Call options were exercised on bonds totaling \$3.340 billion and \$5.075 billion for the three and six month periods in 2019, respectively, compared to no bonds called for the same periods in 2018. During the second quarter of 2018, in order to improve its repricing and maturity gap position, the Bank extinguished discount notes totaling \$450.0 million and recognized a gain of \$150 thousand. Debt is called to take advantage of favorable market interest rate changes. The amount of debt issuance cost expensed is dependent upon both the volume and remaining maturity of the debt when called. Losses on called debt are more than offset by interest expense savings realized as called debt is replaced by new debt issued at a lower rate of interest.

For the three and six month periods ended June 30, 2019, net losses on other transactions increased \$1.1 million and \$1.7 million, respectively. The higher losses for both periods resulted primarily from a gain of \$1.4 million recognized during the second quarter of 2018 from the Bank establishing interest rate lock and forward commitment derivatives that resulted from the sale of Correspondent Lending loans. There have been no sales of Correspondent Lending loans in 2019. For the three and six month periods, this reduction was partially offset by lower losses on the sale of rural home loans of \$721 thousand and \$723 thousand, respectively. Higher provision expense for unfunded commitments of \$223 thousand and \$695 thousand for the three and six month periods in 2019, respectively, also contributed to the increase in losses on other transactions. Changes in the reserve for unfunded commitments result from fluctuations in both the balance and composition of unfunded commitments between periods.

The Bank received \$2.6 million and \$6.3 million for the six months ended June 30, 2019 and 2018, respectively, in insurance premium refunds from the FCSIC, which insures the System's debt obligations. The FCSIC refunds are nonrecurring and resulted from the assets of the FCSIC at the end of 2017 and 2018 exceeding the secure base amount as defined by the Farm Credit Act.

For the three months ended June 30, 2019, other noninterest income decreased \$534 thousand primarily due to a decrease of \$314 thousand in patronage received from other Farm Credit institutions.

#### Noninterest Expenses

The following table illustrates the changes in noninterest expenses:

Change in Noninterest Expenses		For the Three Months Ended June 30,				For the Six Months Ended June 30,						
Increase/										Increase/		
(dollars in thousands)		2019		2018	(D	ecrease		2019	2018	Decrease		
Salaries and employee benefits	\$	16,303	\$	15,893	\$	410	\$	32,462	\$ 32,115	\$ 347		
Occupancy and equipment		6,083		5,357		726		12,095	11,113	982		
Insurance Fund premiums		2,246		1,917		329		4,420	4,127	293		
Other operating expenses		10,164		10,235		71)		19,898	19,883	15		
Losses (gains) from other property owned		22		2		20		95	59	36		
Total noninterest expenses	\$	34,818	\$	33,404	\$	1,414	\$	68,970	\$ 67,297	\$ 1,673		

Noninterest expenses for the three and six months ended June 30, 2019 increased \$1.4 million and \$1.7 million, respectively, compared to the corresponding periods in 2018. The increases resulted primarily from increases of \$726 thousand and \$982 thousand for the three and six month periods, respectively, in occupancy and equipment expenses which resulted from higher equipment maintenance and lease costs. There were no other significant line item variances.

#### REGULATORY MATTERS

#### Capital

The following quantitative disclosures contain regulatory disclosures as required for the Bank under Regulation 628.62 and 628.63 for risk-adjusted ratios: common equity tier 1, tier 1 capital and total regulatory capital ratios. As required, these disclosures are made available for at least three years and can be accessed via AgFirst's website at www.agfirst.com.

#### SCOPE OF APPLICATION

AgFirst is one of the four banks of the System, a nationwide system of cooperatively owned Banks and Associations, established by Congress and subject to the provisions of the Farm Credit Act of 1971, as amended. The Bank prepares financial statements in conformity with accounting principles generally accepted in the United States of America (GAAP) and prevailing practices within the financial services industry.

As of June 30, 2019, the AgFirst District consisted of the Bank and 19 District Associations. All 19 were structured as Agricultural Credit Association (ACA) holding companies, with Production Credit Association (PCA) and Federal Land Credit Association (FLCA) subsidiaries. AgFirst is owned by these 19 Associations. The Bank does not have any subsidiaries requiring consolidation; therefore, there are no consolidated entities for which the total capital requirement is deducted, there are no restrictions on transfer of funds or total capital with other consolidated entities and no subsidiary exists which is below the minimum total capital requirement individually or when aggregated at the Bank's level. In conjunction with other System entities, the Bank jointly owns certain service organizations: the Federal Farm Credit Banks Funding Corporation (Funding Corporation), the FCS Building Association (FCSBA), and the Farm Credit Association Captive Insurance Corporation Captive). Certain of the Bank's investments in other System institutions, including the investment in the Funding Corporation and FCSBA, are deducted from capital as only the institution that issued the equities may count the amount as capital.

#### **CAPITAL STRUCTURE**

The table below outlines the Bank's capital structure for the capital adequacy calculations as of June 30, 2019:

(dollars in thousands)	3-Month Average Daily Balance			
Common Equity Tier 1 Capital CET1)				
Common cooperative equities:				
Statutory minimum purchased borrower stock	\$	23		
Other required member purchased stock		128,077		
Allocated equities:		,		
Allocated stock subject to retirement		187,719		
Nonqualified allocated surplus subject to retirement		439		
Unallocated retained earnings		1,956,366		
Paid-in capital		58,883		
Regulatory adjustments and deductions made to CET1*		71,603)		
Total CET1	\$	2,259,904		
Additional Tier 1 Capital (AT1)				
Non-cumulative perpetual preferred stock	\$	49,250		
Regulatory adjustments and deductions made to AT1		_		
Total AT1	\$	49,250		
Total Tier 1 Capital	\$	2,309,154		
Tier 2 Capital				
Allowance for loan losses	\$	17,960		
Reserve for unfunded commitments	*	70		
Regulatory adjustments and deductions made to total capital		_		
Total Tier 2 Capital	\$	18,030		
Total Regulatory Capital	\$	2,327,184		

<sup>\*</sup>Primarily investments in other System institutions.

#### CAPITAL ADEQUACY AND CAPITAL BUFFERS

The table below outlines the Bank's risk-weighted assets by exposure calculated on a three-month average daily balance (including accrued interest of that exposure) as of June 30, 2019:

(dollars in thousands)	Risk-Weighted Assets			
Exposures to:				
Government-sponsored entities, including Direct Notes to				
Associations	\$	3,963,959		
Depository institutions		48,706		
Corporate exposures, including borrower loans and leases		5,061,067		
Residential mortgage loans		986,058		
Past due > 90 days and nonaccrual loans		21,384		
Securitizations		261,881		
Exposures to obligors and other assets		130,854		
Off-balance sheet exposures		1,471,512		
Total risk-weighted assets	\$	11,945,421		

As of June 30, 2019, the Bank was well-capitalized and exceeded all capital requirements to which it was subject, including applicable capital buffers. The Bank's risk-adjusted capital ratios exceeded the regulatory minimum levels, including the conservation buffer, by 9.61 percent. Additionally, the Bank's leverage ratio was 1.96 percent in excess of its required minimum leverage ratio, including the buffer. If the capital ratios fall below the minimum regulatory requirements, including the buffer amounts, capital distributions (equity redemptions, dividends, and patronage) and discretionary senior executive bonuses are restricted or prohibited without prior FCA approval. The aggregate amount of eligible retained income was \$(10.6) million as of June 30, 2019.

The following sets forth the regulatory capital ratios as of June 30, 2019:

	Regulatory Minimum	Capital Conservation	Minimum Requirement,	Capital Ratios as of
Ratio	Requirement	Buffer	Including Buffer	June 30, 2019
Risk-adjusted ratios:				
CET1 Capital*	4.50%	1.875%	6.375%	18.92%
Tier 1 Capital*	6.00%	1.875%	7.875%	19.33%
Total Regulatory Capital*	8.00%	1.875%	9.875%	19.48%
Permanent Capital	7.00%	0.00%	7.00%	19.36%
Non-risk-adjusted ratios:				
Tier 1 Leverage	4.00%	1.00%	5.00%	6.96%
URE and URE Equivalents Leverage	1.50%	0.00%	1.50%	6.00%

<sup>\*</sup> The capital conservation buffers over risk-adjusted ratio minimums have a 3-year phase-in period and will become fully effective January 1, 2020. Risk-adjusted ratio minimums will increase 0.625% each year until fully phased in. There is no phase-in period for the tier 1 leverage ratio.

#### **CREDIT RISK**

System entities have specific lending authorities within their chartered territories. The Bank is subject to credit risk by lending to the District's FLCAs, PCAs, and ACAs as well as Other Financing Institutions (OFIs). The Bank also purchases participations and syndications and first lien residential mortgage loans. The allowance for loan losses is determined based on a periodic evaluation of the loan portfolio, which identifies loans that may be impaired based on characteristics such as probability of default (PD) and loss given default (LGD). Allowance needs by geographic region are only considered in rare circumstances that may not otherwise be reflected in the PD and LGD (flooding, drought, etc. . There was no allowance attributed to a geographic area as of June 30, 2019. See Note 2, *Loans and Allowance for Loan Losses*, and Note 3, *Investments*, in the Notes to the Financial Statements for quantitative disclosures related to the Bank's credit risk.

#### CREDIT RISK MITIGATION

#### Credit Risk Mitigation Related to Loans

The Bank uses various strategies to mitigate credit risk in its lending portfolio. As described in Note 1 of the Bank's Annual Report, a substantial portion of the loan balance is concentrated in notes receivable from the District Associations to fund their earning assets, which collateralize the notes. In addition, the earnings, capital and loan loss reserves of the Associations provide additional layers of protection against losses in their respective retail loan portfolios.

The following table illustrates credit risk mitigants within AgFirst's loan portfolio which reduce capital requirements:

	June 30, 2019							
(dollars in thousands)		Amortized Cost		Risk- Weighted Exposures	% of Total Loans			
Loans with unconditional guarantee	\$	5,814	\$	_	-%			
Loans with conditional guarantee		1,242,981		252,983	5%			
Direct Notes		16,598,104		3,267,777	67%			
Total	\$	17,846,899	\$	3,520,760	72%			

The Bank's credit risk associated with its Direct Note portfolio approximates that of the aggregate District Associations' portfolios as a whole. Excluding accrued interest receivable, at June 30, 2019, the Bank's Direct Note portfolio totaled \$16.551 billion and aggregate District Associations' loan portfolios totaled \$22.088 billion.

The following table illustrates the geographic distribution of the aggregate loan portfolios for AgFirst District Associations as of June 30, 2019:

AgFirst Total District Associations Loan Portfolios by State

	Percent of Portfolio
North Carolina	16%
Georgia	11
Virginia	10
Pennsylvania	10
Ohio	8
Florida	8
Maryland	7
South Carolina	6
Alabama	5
Kentucky	4
Mississippi	3
Louisiana	2
Delaware	2
All Other States	8
Total	100 %

The following table illustrates the various major commodity groups in the aggregate District Associations' loan portfolios based on borrower eligibility and the percentage of the aggregate outstanding District Associations' loan volume at June 30, 2019:

AgFirst Total District Associations Loan Portfolios by Commodity Group

Loan Fortionos by	Commounty Group
	Percent of Portfolio
Forestry	14 %
Poultry	14
Field Crops	12
Cattle	9
Grains	8
Corn	6
Other Real Estate	5
Dairy	5
Cotton	4
Tree Fruits and Nuts	3
Swine	3
Nursery/Greenhouse	3
Rural Home Loan	2
Processing	2
Other	10
Total	100 %

The following table illustrates the aggregate District Associations' loan portfolios based upon repayment dependency by commodity and the percentage of the aggregate outstanding District Associations' loan volume at June 30, 2019:

AgFirst Total District Associations Loan Portfolios by Commodity Group

Bottii I of tromos by	commounty Group
	Percent of Portfolio
Non-Farm Income	32 %
Grains	15
Poultry	13
Timber	6
Dairy	5
Fruit and Vegetables	4
Beef	4
Cotton	4
Swine	3
Farm-Related Business	2
Landlords	2
Tobacco	2
Nursery	2
Other	6
Total	100 %

The following table illustrates AgFirst's loan portfolio by geographic distribution at June 30, 2019. The loan portfolio includes loans in all 50 states and Puerto Rico. This table excludes the Bank's Direct Notes and loans to OFI portfolios.

AgFirst Participations and Correspondent Lending Portfolios by State

Correspondent Lending 1 of florids by State							
(dollars in thousands)		Total Loans	Percent of Total				
North Carolina	\$	1,452,131	18 %				
Georgia		1,012,951	13				
Florida		574,294	7				
Virginia		572,390	7				
South Carolina		452,747	6				
Texas		425,558	5				
Maryland		321,458	4				
California		250,942	3				
Pennsylvania		220,836	3				
Kentucky		208,470	3				
Missouri		206,067	3				
Ohio		183,475	2				
Minnesota		181,689	2				
New York		165,240	2				
Kansas		133,750	2				
Louisiana		133,041	2				
All Other States		1,444,652	18				
Total	\$	7,939,691	100 %				

The following table shows the various major commodity groups in the portfolio based on borrower eligibility and the percentage of the outstanding portfolio volume at June 30, 2019. This table excludes the Bank's Direct Notes and loans to OFI portfolios.

AgFirst Participations and Correspondent Lending Portfolios by Commodity Group

correspondent Zending Fortronds by Commodity Group							
(dollars in thousands)		<b>Total Loans</b>	Percent of Total				
Rural Home Loan	\$	3,217,416	40 %				
Forestry		950,158	12				
Utilities		836,530	11				
Processing		688,189	9				
Field Crops		286,975	4				
Other Real Estate		214,669	3				
Dairy		197,786	2				
Tree Fruits and Nuts		192,842	2				
Nursery/Greenhouse		191,460	2				
Swine		156,061	2				
Cattle		149,652	2				
Other		857,953	11				
Total	\$	7,939,691	100%				

The following table segregates loans based upon repayment dependency by commodity at June 30, 2019. This table excludes the Bank's Direct Notes and loans to OFI portfolios.

AgFirst Participations and Correspondent Lending Portfolios by Commodity Group

(dollars in thousands)	<b>Total Loans</b>	Percent of Total
Non-Farm Income	\$ 3,514,557	44 %
Rural Utilities	836,530	11
Timber	813,737	10
Fruit and Vegetables	376,744	5
Grains	330,233	4
Processing and Marketing	316,326	4
Swine	263,898	3
Farm-Related Business	219,314	3
Dairy	197,980	2
Poultry	158,045	2
Beef	155,480	2
Nursery	149,987	2
Other	606,860	8
Total	\$ 7,939,691	100 %

The Bank does not use credit default swaps as part of its credit risk management approach.

#### Credit Risk Mitigation Related to Investments

Credit risk in AgFirst's investment portfolio is largely mitigated by investing primarily in securities issued or guaranteed by the U.S. government or one of its agencies.

The following table shows the investment exposures covered by a guarantee:

		June 3	30, 2019	
(dollars in thousands)	Amortized Cost	Fair Value	% of Total Investments	Risk- Weighted Exposures
<b>Unconditional Guarantee:</b>				
U.S. Govt. Treasury Securities	\$ 241,920	\$ 242,489	3%	\$ _
U.S. Govt. Guaranteed	4,556,303	4,613,804	58%	_
Conditional Guarantee:				
U.S. Govt. Agency Guaranteed	2,234,262	2,240,736	28%	443,199
Total	\$ 7,032,485	\$ 7,097,029	89%	\$ 443,199

#### **COUNTERPARTY CREDIT RISK**

See Note 10, *Derivative Financial Instruments and Hedging Activities*, in the Notes to the Financial Statements for further information on any counterparty exposures related to derivatives as of June 30, 2019.

#### **SECURITIZATION**

The Bank has elected to utilize the simplified supervisory formula risk-based capital approach (SSFA) for securitization exposures. As such, the Bank's asset-backed securities (ABS) portfolio is risk weighted on an individual security level. As of June 30, 2019, the ABS risk-weights ranged from 20.00 percent to 113.36 percent, with a weighted average risk-weight of 31.33 percent.

The following table shows the risk-weight distribution as of June 30, 2019 for ABS securities which are risk weighted using the SSFA approach:

	Fair Value by SSFA Risk Weight Classification							
	Automobile		Credit Card					
(dollars in thousands)		ABSs		ABSs		Total		
0% – 50%	\$	141,880	\$	509,813	\$	651,693		
Greater than 50% – 100%		104,630		_		104,630		
Greater than 100% - 150%		25,998		_		25,998		
Total Exposure	\$	272,508	\$	509,813	\$	782,321		

As of June 30, 2019, the Bank did not hold any off-balance sheet securitization exposures nor were any securitization exposures deducted from capital. For the six months ended June 30, 2019, there were no sales of ABS securities that resulted in realized gains or losses.

Refer to Note 3, *Investments*, in the Notes to the Financial Statements for additional information related to purchases and sales of securitization exposures as well as the amortized cost, unrealized gains/(losses) and fair value of mortgage-backed securities (MBSs) and ABSs held in the investment portfolio.

#### **EQUITIES**

At June 30, 2019, the Bank had no equity investments.

#### INTEREST RATE RISK

The following tables represent AgFirst's market value of equity and projected change over the next twelve months in net interest income for various rate movements as of June 30, 2019:

Net Interest Income

Scenarios	Net Interest Income	% Change		
+4.0% Shock	\$396,386	1.17%		
+2.0% Shock	\$406,495	3.75%		
Base line	\$391,798	-%		
-1.0% Shock	\$431,157	10.05%		
-50% of 3M Tbill	\$435,530	11.16%		

#### Market Value of Equity (dollars in thousands)

	(crotte	ars in monstrices,		
Scenarios	Assets	Liabilities*	Equity*	% Change
Book Value	\$33,759,943	\$31,342,896	\$2,417,047	- %
+4.0% Shock	\$30,914,311	\$29,179,614	\$1,734,697	-35.44%
+2.0% Shock	\$32,527,581	\$30,303,366	\$2,224,215	-17.23%
Base line	\$34,075,164	\$31,388,025	\$2,687,139	-%
-1.0% Shock	\$34,573,653	\$31,656,020	\$2,917,633	8.58%
-50% of 3M Tbill	\$34,591,076	\$31,662,036	\$2,929,040	9.00%

<sup>\*</sup>For interest rate risk management, the \$49.3 million perpetual preferred stock is included in liabilities rather than equity.

<sup>\*\*</sup>Base line uses rates as of the balance sheet date before application of any interest rate shocks.

<sup>\*\*\*</sup>When the three-month Treasury bill interest rate is less than 4 percent, both the minus 200 and minus 400 basis point shocks are replaced with a downward shock which is equal to one-half of the three-month Treasury bill rate. At June 30, 2019, this downward shock was 105 basis points.

#### **Other Regulatory Matters**

On April 3, 2019, the Farm Credit Administration issued a proposed rule that would clarify the factors that System institutions should consider when categorizing high-risk loans and placing them in nonaccrual status. The rule would also revise the criteria by which loans are reinstated to accrual status, and would revise the application of the criteria to certain loans in nonaccrual status to distinguish between the types of risk that cause loans to be placed in nonaccrual status. The public comment period ended on June 3, 2019.

#### 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 2018 Annual Report of AgFirst Farm Credit Bank for recently issued accounting pronouncements.

The following Accounting Standards Update (ASU) was issued by the Financial Accounting Standards Board (FASB) but has not yet been adopted:

## Summary of Guidance Adoption and Potential Financial Statement Impact ASU 2016-13 - Financial Instruments - Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments

- Replaces multiple existing impairment standards by establishing a single framework for financial assets to reflect management's estimate of current expected credit losses (CECL) over the complete remaining life of the financial assets.
- Changes the present incurred loss impairment guidance for loans to a CECL model.
- The Update also modifies the other-than-temporary impairment model for debt securities to require an allowance for credit impairment instead of a direct write-down, which allows for reversal of credit impairments in future periods based on improvements in credit.
- Eliminates existing guidance for purchased credit impaired (PCI loans, and requires recognition of an allowance for expected credit losses on these financial assets.
- Requires a cumulative-effect adjustment to retained earnings as of the beginning of the reporting period of adoption.
- Effective for fiscal years beginning after December 15, 2020, and interim periods within those fiscal years. Early application will be permitted for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2018.

- Implementation efforts have begun by establishing a crossdiscipline governance structure. The implementation includes identification of key interpretive issues, scoping of financial instruments, and assessing existing credit loss forecasting models and processes against the new guidance.
- The new guidance is expected to result in an increase in allowance for credit losses due to several factors, including:
  - The allowance related to loans and commitments will most likely increase to cover credit losses over the full remaining expected life of the portfolio, and will consider expected future changes in macroeconomic conditions,
  - An allowance will be established for estimated credit losses on any debt securities.
  - The nonaccretable difference on any PCI loans will be recognized as an allowance, offset by an increase in the carrying value of the related loans.
- The extent of the increase is under evaluation, but will depend upon the nature and characteristics of the financial instrument portfolios, and the macroeconomic conditions and forecasts at the adoption date.
- The guidance is expected to be adopted in first quarter 2021.

**NOTE:** Shareholder investment in a District Association is materially affected by the financial condition and results of operations of AgFirst Farm Credit Bank. Copies of AgFirst's annual and quarterly reports are available upon request free of charge by calling 1-800-845-1745, ext. 2764, or writing Matthew Miller, Controller, AgFirst Farm Credit Bank, P.O. Box 1499, Columbia, SC 29202. Combined information concerning AgFirst Farm Credit Bank and District Associations can also be obtained at the Bank's website, *www.agfirst.com.* AgFirst prepares a quarterly report within 40 days after the end of each fiscal quarter, except that no quarterly report need be prepared for the fiscal quarter that coincides with the end of the fiscal year of the institution.

### **Balance Sheets**

(dollars in thousands)		June 30, 2019	D	ecember 31, 2018
	(	unaudited)		(audited)
Assets Cash Cash equivalents	\$	383,224 525,000	\$	421,485 100,000
Investments in debt securities: Available-for-sale (amortized cost of \$7,813,184 and \$7,988,624, respectively Held-to-maturity (fair value of \$42,950 and \$44,894, respectively		7,879,028 39,914		7,939,196 42,052
Total investments in debt securities		7,918,942		7,981,248
Loans Allowance for loan losses		24,627,185 18,703)		24,275,881 18,049)
Net loans		24,608,482		24,257,832
Accrued interest receivable Accounts receivable		97,892 64,961		90,794 71,061
Equity investments in other Farm Credit institutions Premises and equipment, net		75,307 54,762		74,798 55,865
Other property owned Other assets		2,741 28,632		2,842 22,537
Total assets	\$	33,759,943	\$	33,078,462
Liabilities Systemwide bonds payable Systemwide notes payable	\$	26,348,450 4,787,730	\$	25,807,367 4,574,334
Accrued interest payable Accounts payable Other liabilities		101,757 17,552 38,157		109,659 327,610 35,795
Total liabilities		31,293,646		30,854,765
Commitments and contingencies (Note 8				
Shareholders' Equity		49,250		40.250
Perpetual preferred stock Capital stock and participation certificates		49,250 315,819		49,250 317,840
Additional paid-in-capital Retained earnings		58,883		58,883
Allocated Unallocated		422 1,978,290		440 1,848,936
Accumulated other comprehensive income (loss)		63,633		51,652)
Total shareholders equity		2,466,297		2,223,697
Total liabilities and equity	\$	33,759,943	\$	33,078,462

### **Statements of Income**

(unaudited)

	For the The Ended		For the Six Months Ended June 30,				
(dollars in thousands)	2019		2018	2019		2018	
Interest Income							
Investment securities	\$ 56,236	\$	48,272	\$ 112,402	\$	92,297	
Loans	226,115		196,873	445,314		383,149	
Other	1,353		151	2,658		151	
Total interest income	283,704		245,296	560,374		475,597	
Interest Expense	184,633		144,580	364,608		272,276	
Net interest income	99,071		100,716	195,766		203,321	
Provision for (reversal of allowance for) loan losses	 444		161)	353		1,262	
Net interest income after provision for (reversal of allowance for)							
loan losses	 98,627		100,877	195,413		202,059	
Noninterest Income							
Loan fees	2,136		2,040	4,119		3,973	
Building lease income	1,290		832	1,990		1,677	
Gains (losses) on debt extinguishment	5,163)		150	8,376)		150	
Gains (losses) on other transactions	343)		775	259)		1,394	
Insurance premium refund				2,620		6,330	
Other noninterest income	1,444		1,978	4,025		4,120	
Total noninterest income	 636)		5,775	4,119		17,644	
Noninterest Expenses							
Salaries and employee benefits	16,303		15,893	32,462		32,115	
Occupancy and equipment	6,083		5,357	12,095		11,113	
Insurance Fund premiums	2,246		1,917	4,420		4,127	
Other operating expenses	10,164		10,235	19,898		19,883	
Losses (gains) from other property owned	 22		2	95		59	
Total noninterest expenses	34,818		33,404	68,970		67,297	
Net income	\$ 63,173	\$	73,248	\$ 130,562	\$	152,406	

## **Statements of Comprehensive Income**(unaudited)

	For the Th Ended	For the Six Months Ended June 30,				
(dollars in thousands)	2019	2018		2019	2018	
Net income	\$ 63,173	\$ 73,248	\$	130,562	\$ 152,406	
Other comprehensive income:						
Unrealized gains (losses) on investments	73,983	15,694)		115,272	52,698)	
Change in value of cash flow hedges	101)	104		151)	676	
Employee benefit plans adjustments	82	125		164	250	
Other comprehensive income (Note 5)	73,964	15,465)		115,285	51,772)	
Comprehensive income	\$ 137,137	\$ 57,783	\$	245,847	\$ 100,634	

## **Statements of** Changes in Shareholders' Equity

	D.	4 1	Capital						A	ccumulated		T. 4.1
		erpetual referred	Stock and Participatio	n	Additional	Retain	ed I	Earnings	Co	Other mprehensive	Sh	Total areholders'
(dollars in thousands)		Stock	Certificate		id-In-Capital	 ocated		nallocated		Income		Equity
Balance at December 31, 2017	\$	49,250	\$ 313,752	\$	58,883	\$ 492	\$	1,845,194	\$	24,756)	\$	2,242,815
Comprehensive income								152,406		51,772)		100,634
Capital stock/participation certificates issued/(retired), net			3,612	)								3,612)
Dividends paid on perpetual preferred stock								744)				744)
Retained earnings retired						31)						31)
Patronage distribution adjustment								135				135
Balance at June 30, 2018	\$	49,250	\$ 310,140	\$	58,883	\$ 461	\$	1,996,991	\$	76,528)	\$	2,339,197
Balance at December 31, 2018	\$	49,250	\$ 317,840	\$	58,883	\$ 440	\$	1,848,936	\$	51,652)	\$	2,223,697
Cumulative effect of change in								1.40\				140)
accounting principle Comprehensive income								140) 130,562		115,285		140) 245,847
Capital stock/participation certificates								150,502		113,203		243,047
issued/(retired), net			2,177	)								2,177)
Dividends paid on perpetual preferred stock								953)				953)
Retained earnings retired			150			(18		115)				18)
Patronage distribution adjustment			156					115)				41
Balance at June 30, 2019	\$	49,250	\$ 315,819	\$	58,883	\$ 422	\$	1,978,290	\$	63,633	\$	2,466,297

## **Statements of Cash Flows**

(unaudited)

For the Six Months

		For the Si		
(dollars in thousands)		Ended J 2019	une .	2018
Cash flows from operating activities:		2017		2010
Net income	\$	130,562	\$	152,406
	J	130,302	Φ	132,400
Adjustments to reconcile net income to net cash provided by operating activities:		4 1 42		4.025
Depreciation on premises and equipment  Amortization of net deferred loan fees costs and premium amortization discount accretion		4,143 1,138		4,025
Premium amortization discount accretion on investment securities		643		1,026 2,735
Premium amortization discount accretion on bonds and notes		59,555		42,139
Provision for loan losses		353		1,262
Gains losses on other property owned, net		72		29
(Gains) losses on debt extinguishment		8,376		(150
Gains losses on other transactions		259		1,394
Net change in loans held for sale				2,784
Changes in operating assets and liabilities:		2,295		2,704
(Increase) decrease in accrued interest receivable		7,098		7,115
(Increase) decrease in accounts receivable		6,100		16,524
Increase (decrease) in accrued interest payable		7,902		13,831
Increase decrease in accounts payable		12,266		27,592
Change in other, net		3,985		11,285
_		51,683		31,251
Total adjustments				
Net cash provided by used in operating activities		182,245		183,657
Cash flows from investing activities:		000 701		1 102 002
Investment securities purchased		980,581		1,182,983
Investment securities sold or matured		1,157,365		1,329,897
Net increase decrease in loans		354,434		47,874
(Increase) decrease in equity investments in other Farm Credit System institutions Purchase of premises and equipment, net		509		496
		3,043		1,766
Proceeds from sale of premises and equipment		18 29		_
Proceeds from sale of other property owned				
Net cash provided by (used in) investing activities		181,155)		192,526
Cash flows from financing activities:				
Bonds and notes issued		13,170,568		8,132,686
Bonds and notes retired		12,484,019		8,402,760
Capital stock and participation certificates issued/retired, net		2,177		3,612
Distribution to shareholders		297,752		312,320
Dividends paid on perpetual preferred stock		953		744
Retained earnings retired		18)		31
Net cash provided by used in financing activities		385,649		586,781
Net increase (decrease) in cash and cash equivalents		386,739		210,598
Cash and cash equivalents, beginning of period		521,485		713,287
Cash and cash equivalents, end of period	\$	908,224	\$	502,689
Supplemental schedule of non-cash activities:				
Receipt of property in settlement of loans	\$		\$	297
Change in unrealized gains (losses on investments, net		115,272		52,698
Employee benefit plans adjustments		164)		250
Non-cash changes related to derivatives:				
Increase (decrease in other liabilities	\$	_	\$	5
Decrease (increase) in other assets		_		85
Supplemental information:				
Interest paid	\$	312,955	\$	216,306

#### **Notes to the Financial Statements**

(unaudited)

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

#### **Organization**

The accompanying financial statements include the accounts of AgFirst Farm Credit Bank (AgFirst or Bank). AgFirst and its related Agricultural Credit Associations (Associations or District Associations) are collectively referred to as the AgFirst District (District). A complete description of the organization and operations, the significant accounting policies followed, and the financial condition and results of operations of the Bank as of and for the year ended December 31, 2018 are contained in the 2018 Annual Report to Shareholders. These unaudited interim financial statements should be read in conjunction with the latest Annual Report to Shareholders.

#### Basis of Presentation

In the opinion of management, the accompanying 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 financial statements may 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 Bank'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 loan losses (Note 2, *Loans and Allowance for Loan Losses*), investment securities and other-than-temporary impairment (Note 3, *Investments*), and financial instruments (Note 6, *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 Updates (ASUs) Issued During the Period

The following ASUs were issued by the Financial Accounting Standards Board (FASB) since the most recent year end:

• In May 2019, the FASB issued ASU 2019-05 Financial Instruments—Credit Losses (Topic 326): Targeted Transition Relief. The amendments in this Update provide entities with an option to irrevocably elect the fair value option applied on an instrument-by-instrument basis for certain financial assets upon the adoption of Topic 326. The fair value option election does not apply to held-to-maturity debt securities. For entities that have not yet adopted the amendments in ASU 2016-13, the effective date and transition methodology for the amendments in this Update are the same as in that Update. Evaluation of any possible effects the guidance may have on the statements of financial condition and results of operations is in progress.

- In April 2019, the FASB issued ASU 2019-04 Codification Improvements to Topic 326 Financial Instruments—Credit Losses, Topic 815 Derivatives and Hedging, and Topic 825 Financial Instruments. The amendments in this Update clarify, correct, and improve various aspects of the guidance in the following Updates related to financial instruments: ASU 2016-01 Financial Instruments—Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Liabilities, ASU 2016-13 Financial Instruments—Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments, and ASU 2017-12 Derivatives and Hedging Topic 815): Targeted Improvements to Accounting for Hedging Activities. The items addressed generally are not expected to have a significant effect on current accounting practice or to create a significant administrative cost for most entities. For entities that have not yet adopted the amendments in ASU 2016-13, the effective dates and transition requirements for the amendments related to this Update are the same as the effective dates and transition requirements in ASU 2016-13. The transition adjustment includes adjustments made as a result of an entity developing or amending its accounting policy upon adoption of the amendments in this Update for determining when accrued interest receivables are deemed uncollectible and written off. For entities that have adopted the amendments in ASU 2017-12 as of the issuance date of this Update, the effective date is as of the beginning of the first annual period beginning after the issuance date of this Update. For those entities, early adoption is permitted, including adoption on any date on or after the issuance of this Update. The amendments in this Update related to ASU 2016-01 are effective for fiscal years beginning after December 15, 2019, including interim periods within those fiscal years. Early adoption is permitted in any interim period following the issuance of this Update as long as the entity has adopted all of the amendments in ASU 2016-01. The amendments in this Update should be applied on a modified-retrospective transition basis by means of a cumulative-effect adjustment to the opening retained earnings balance in the statement of financial position as of the date an entity adopted all of the amendments in ASU 2016-01. Evaluation of any possible effects the guidance may have on the statements of financial condition and results of operations is in progress.
- In March 2019, the FASB issued ASU 2019-01 Leases (Topic 842): Codification Improvements. The Update addresses potential implementation issues that could arise as organizations implement Topic 842. The amendments in the Update include the following items brought to the FASB's attention through interactions with stakeholders: 1. Determining the fair value of the underlying asset by lessors that are not manufacturers or dealers; 2. Presentation on the statement of cash flows—sales-type and direct financing leases; 3. Transition disclosures related to Topic 250, Accounting Changes and Error Corrections. Evaluation of any possible effects the guidance may have on the statements of financial condition and results of operations is in progress.

#### ASUs Pending Effective Date

For a detailed description of the ASUs below, see the latest Annual Report.

Potential effects of ASUs issued in previous periods:

- In August 2018, the FASB issued ASU 2018-15 Intangibles—Goodwill and Other—Internal-Use Software (Subtopic 350-40): Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement That Is a Service Contract. The amendments align the requirements for capitalizing implementation costs incurred in a hosting arrangement that is a service contract with the requirements for capitalizing implementation costs incurred to develop or obtain internal-use software and hosting arrangements that include an internal use software license). The accounting for the service element of a hosting arrangement that is a service contract is not affected by the amendments in this Update. The guidance is effective for public business entities for fiscal years beginning after December 15, 2019, and interim periods within those fiscal years. Early adoption is permitted, including adoption in any interim period, for all entities. The amendments should be applied either retrospectively or prospectively to all implementation costs incurred after the date of adoption. Evaluation of any possible effects the guidance may have on the statements of financial condition and results of operations is in progress.
- In August 2018, the FASB issued ASU 2018-14 Compensation—Retirement Benefits—Defined Benefit
  Plans—General (Subtopic 715-20): Disclosure Framework—Changes to the Disclosure Requirements for
  Defined Benefit Plans. The amendments in this Update remove disclosures that are no longer considered cost
  beneficial, clarify the specific requirements of certain disclosures, and add new disclosure requirements
  identified as relevant. Although narrow in scope, the amendments are considered an important part of the

FASB's efforts to improve the effectiveness of disclosures in the notes to financial statements by applying concepts in the Concepts Statement, Conceptual Framework for Financial Reporting—Chapter 8: Notes to Financial Statements. The amendments are effective for fiscal years ending after December 15, 2020, for public business entities. Early adoption is permitted. Evaluation of any possible effects the guidance may have on the statements of financial condition and results of operations is in progress.

- In August 2018, the FASB issued ASU 2018-13 Disclosure Framework—Changes to the Disclosure Requirements for Fair Value Measurement. The amendments are part of the FASB's disclosure framework project. The project's objective and primary focus are to improve the effectiveness of disclosures in the notes to financial statements by facilitating clear communication of the information required by GAAP that is most important to users of each entity's financial statements. The amendments remove, modify or add certain disclosures contained in the financial statement footnotes related to fair value. Additionally, the guidance is intended to promote the appropriate exercise of discretion by entities when considering fair value measurement disclosures and to clarify that materiality is an appropriate consideration of entities and their auditors when evaluating disclosure requirements. The amendments are effective for all entities for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2019. Certain amendments should be applied prospectively for only the most recent interim or annual period presented in the initial fiscal year of adoption. All other amendments should be applied retrospectively to all periods presented upon their effective date. Early adoption is permitted upon issuance. Entities are permitted to early adopt any removed or modified disclosures upon issuance of this Update and delay adoption of the additional disclosures until their effective date. The removed disclosures were adopted effective with the 2018 Annual Report. Evaluation of any possible effects the additional and modified disclosures guidance may have on the statements of financial condition and results of operations is in progress.
- In June 2016, the FASB issued ASU 2016-13 Financial Instruments—Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments. This Update, and subsequent clarifying guidance issued, is intended to improve financial reporting by requiring timelier recording of credit losses on financial instruments. It requires an organization to measure all expected credit losses for financial assets held at the reporting date. Financial institutions and other organizations will use forward-looking information to estimate their credit losses. Additionally, the ASU amends the accounting for credit losses on available-for-sale debt securities and purchased financial assets with credit deterioration. For public companies that are not SEC filers, it will take effect for fiscal years beginning after December 15, 2020, and interim periods within those fiscal years. Early application will be permitted for all organizations for fiscal years, and interim periods within those fiscal years, beginning after December 31, 2018. Evaluation of any possible effects the guidance may have on the statements of financial condition and results of operations is in progress.

#### Accounting Standards Effective During the Period

There were no changes in the accounting principles applied from the latest Annual Report, other than any discussed below.

No recently adopted accounting guidance issued by the FASB had a significant effect on the current period reporting. See the most recent Annual Report for a detailed description of each of the standards below:

- In October 2018, the FASB issued ASU 2018-16 Derivatives and Hedging Topic 815): Inclusion of the Secured Overnight Financing Rate (SOFR) Overnight Index Swap (OIS) Rate as a Benchmark Interest Rate for Hedge Accounting Purposes. The amendments in this Update permit use of the OIS rate based on SOFR as a U.S. benchmark interest rate for hedge accounting purposes under Topic 815 in addition to the UST, the LIBOR swap rate, the OIS rate based on the Fed Funds Effective Rate, and the SIFMA Municipal Swap Rate. For public business entities, the amendments were effective upon the adoption of Update 2017-12. Refer to ASU 2017-12 below for further information.
- In August 2017, the FASB issued ASU 2017-12 Derivatives and Hedging Topic 815): Targeted Improvements
  to Accounting for Hedging Activities. The Update is intended to improve the financial reporting of hedging
  relationships to better portray the economic results of an entity's risk management activities in its financial
  statements. In addition to that main objective, the amendments make certain targeted improvements to simplify

the application of the hedge accounting guidance in current GAAP. For public business entities, the amendments were effective for fiscal years beginning after December 15, 2018, and interim periods within those fiscal years. Adoption of this guidance had no impact on the statements of financial condition and results of operations.

- In March 2017, the FASB issued ASU 2017-08 Receivables—Nonrefundable Fees and Other Costs (Subtopic 310-20): Premium Amortization on Purchased Callable Debt Securities. The guidance relates to certain callable debt securities and shortens the amortization period for any premium to the earliest call date. The Update was effective for interim and annual periods beginning after December 15, 2018 for public business entities. Adoption of this guidance had no impact on the statements of financial condition and results of operations.
- In February 2016, the FASB issued ASU 2016-02 Leases (Topic 842). This Update, and subsequent clarifying guidance issued, requires organizations that lease assets to recognize on the balance sheet the assets and liabilities for the rights and obligations created by those leases. Leases will be classified as either finance leases or operating leases. This distinction will be relevant for the pattern of expense recognition in the income statement. Lessor accounting activities are largely unchanged from existing lease accounting. The Update also eliminates leveraged lease accounting but allows existing leveraged leases to continue their current accounting until maturity, termination or modification. The amendments were effective for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years, for public business entities.

#### **Transition Information**

- The guidance was adopted using the optional modified retrospective method and practical expedients for transition. Under this transition method, an entity initially applies the new leases standard at the adoption date and recognizes a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption.
- The package of practical expedients was elected, which allowed existing leases to be largely accounted for consistent with current guidance, except for the incremental balance sheet recognition for lessees.
- There will not be a material change to the timing of future expense recognition.
- Upon adoption, a cumulative-effect adjustment to equity of approximately \$(140) thousand was recorded.
   In addition, a Right of Use Asset in the amount of \$936 thousand and Lease Liability in the amount of \$1.1 million were recognized.
- Given the limited changes to lessor accounting, there were no material changes to recognition or measurement.

#### Note 2 — Loans and Allowance for Loan Losses

The Bank maintains an allowance for loan losses at a level considered adequate by management to provide for probable and estimable losses inherent in the loan portfolio as of the report date. The allowance for loan losses is increased through provisions for loan losses and loan recoveries and is decreased through loan charge-offs and allowance reversals. A review of loans in each respective portfolio is performed periodically to determine the appropriateness of risk ratings and to ensure loss exposure to the Bank has been identified. See Note 3, *Loans and Allowance for Loan Losses*, from the latest Annual Report for further discussion.

Credit risk arises from the potential inability of an obligor to meet its repayment obligation. The Bank manages credit risk associated with lending activities through an assessment of the credit risk profile of an individual obligor. The Bank sets its own underwriting standards and lending policies that provide direction to loan officers and are approved by the board of directors.

A summary of loans outstanding at period end follows:

(dollars in thousands)	June 30, 2019	December 31, 2018
Direct notes	\$ 16,551,228	\$ 16,414,045
Real estate mortgage	1,128,765	1,107,077
Production and intermediate-term	983,699	1,137,422
Loans to cooperatives	506,516	441,510
Processing and marketing	1,016,626	977,274
Farm-related business	80,527	51,393
Communication	344,350	295,833
Power and water/waste disposal	579,694	532,649
Rural residential real estate	3,217,415	3,104,737
International	71,164	71,141
Lease receivables	3,282	385
Loans to other financing institutions (OFIs)	136,266	134,387
Other (including Mission Related)	7,653	8,028
Total loans	\$ 24,627,185	\$ 24,275,881

A substantial portion of the Bank's loan portfolio consists of notes receivable from District Associations (Direct Notes . These notes are used by the Associations to fund their loan portfolios, which collateralize the notes. Therefore, the Bank's concentration of credit risk in various agricultural commodities associated with these notes approximates that of the District as a whole. Loan concentrations are considered to exist when there are amounts loaned to a multiple number of borrowers engaged in similar activities, which would cause them to be similarly impacted by economic or other conditions. A substantial portion of the Associations' lending activities is collateralized, and their exposure to credit loss associated with lending activities is reduced accordingly. The risk funds of an Association, including both capital and the allowance for loan losses, also protect the interest of the Bank.

The Bank may purchase or sell participation interests with other parties in order to diversify risk, manage loan volume, and comply with FCA regulations. During 2019, one Association repurchased \$26.3 million of participations previously sold to AgFirst. During 2019, the Bank purchased \$264.5 million of residential mortgage loans from various Farm Credit System (System) associations and sold \$1.0 million from the portfolio. These amounts are not included in the table below. The following tables present the principal balance of participation loans at periods ended:

June 30, 2019 Within AgFirst District Within Farm Credit System Outside Farm Credit System Total **Participations Participations Participations Participations Participations Participations Participations** Participations (dollars in thousands) Purchased Sold Sold Purchased Sold Purchased Sold Purchased Direct notes 1.088.945 1.088.945 Real estate mortgage 957,269 246,954 435,612 166,769 1,392,881 413,723 Production and intermediate-term 535,581 211,617 590,691 189,168 260,688 1,386,960 400,785 Loans to cooperatives 97,166 604,325 604,325 97,166 Processing and marketing 413,073 364,364 370,040 337,540 944,031 1,727,144 701,904 40,021 15,000 33,500 88,521 7,877 Farm-related business 7,877 108,842 453,502 453,502 108,842 Communication Power and water/waste disposal 60,042 641,028 641,028 60,042 34,127 105,375 105,375 34,127 International Lease receivables 2,935 347 3,282 Other (including Mission Related 7,699 7,699 \$ 1,130,989 \$ 3,215,920 \$ 1,782,422 \$ 1,238,219 Total 2,913,411 \$ 1,956,578 \$ 6,410,717

December 31, 2018 Within AgFirst District Outside Farm Credit System Within Farm Credit System Total Participations Participations Participations Participations Participations Participations Participations Participations (dollars in thousands) Purchased Purchased Purchased Sold Purchased Sold Direct notes 1,044,500 1,044,500 Real estate mortgage 749,214 173,032 422,769 45,352 1,171,983 218,384 Production and intermediate-term 837,130 269,025 598,501 297,424 270,739 1,706,370 566,449 Loans to cooperatives 66,879 499,682 499,682 66,879 Processing and marketing 374,181 299,783 867,310 312,768 350,108 1,591,599 612,551 Farm-related business 46,458 5,000 51,458 Communication 119,032 415,116 119,032 415,116 Power and water/waste disposal 53,082 587,092 587,092 53,082 Rural residential real estate 145 145 International 105,375 34,127 105,375 34,127 Lease receivables 385 385 Other (including Mission Related 8,076 8,076 Total 2,015,204 1,027,945 \$ 2,979,028 \$ 1,687,059 \$ 1,143,049 6,137,281 \$ 2,715,004

A significant source of liquidity for the Bank is the repayments of loans. The following table presents the contractual maturity distribution of loans by loan type at the latest period end:

		June 30	, 201	9	
(dollars in thousands)	Due Less Than 1 Year	Due 1 Through 5 Years		Due After 5 Years	Total
Direct notes	\$ 562,345	\$ 2,741,521	\$	13,247,362	\$ 16,551,228
Real estate mortgage	6,756	259,904		862,105	1,128,765
Production and intermediate-term	131,404	529,593		322,702	983,699
Loans to cooperatives	59,738	330,361		116,417	506,516
Processing and marketing	132,635	502,121		381,870	1,016,626
Farm-related business	16,744	33,672		30,111	80,527
Communication	4,987	202,144		137,219	344,350
Power and water/waste disposal	5,859	244,766		329,069	579,694
Rural residential real estate	108,522	14,298		3,094,595	3,217,415
International	_	49,186		21,978	71,164
Lease receivables	_	2,990		292	3,282
Loans to OFIs	112,018	12,670		11,578	136,266
Other (including Mission Related)	_	2,091		5,562	7,653
Total loans	\$ 1,141,008	\$ 4,925,317	\$	18,560,860	\$ 24,627,185
Percentage	4.63%	20.00%		75.37%	100.00%

The recorded investment in a receivable is the face amount increased or decreased by applicable accrued interest and unamortized premium, discount, finance charges, or acquisition costs and may also reflect a previous direct writedown of the investment.

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

	June 30, 2019	December 31, 2018		June 30, 2019	December 31, 2018
Direct notes:			Power and water/waste disposal:		
Acceptable	91.47%	91.33%	Acceptable	96.75%	100.00%
OAEM	8.53	8.67	OAEM	-	-
Substandard/doubtful/loss		<del></del>	Substandard/doubtful/loss	3.25	
=	100.00%	100.00%		100.00%	100.00%
Real estate mortgage:			Rural residential real estate:		
Acceptable	95.18%	97.34%	Acceptable	99.65%	99.68%
OAEM	4.30	2.04	OAEM	_	_
Substandard/doubtful/loss	0.52	0.62	Substandard/doubtful/loss	0.35	0.32
- -	100.00%	100.00%		100.00%	100.00%
Production and intermediate-term:			International:		
Acceptable	94.77%	97.81%	Acceptable	100.00%	100.00%
OAEM	4.64	1.61	OAEM	_	=
Substandard/doubtful/loss	0.59	0.58	Substandard/doubtful/loss	_	-
- -	100.00%	100.00%		100.00%	100.00%
Loans to cooperatives:			Lease receivables:		
Acceptable	98.57%	98.31%	Acceptable	100.00%	100.00%
OAEM	_	_	OAEM	_	_
Substandard/doubtful/loss	1.43	1.69	Substandard/doubtful/loss	_	_
- -	100.00%	100.00%		100.00%	100.00%
Processing and marketing:			Loans to OFIs:		
Acceptable	98.41%	100.00%	Acceptable	100.00%	100.00%
OAEM	1.59	_	OAEM	100.00%	100.00%
Substandard/doubtful/loss	_	_	Substandard/doubtful/loss	_	_
	100.00%	100.00%	Substandard/doubtrul/loss	100.00%	100.00%
Farm-related business:					
Acceptable	100.00%	100.00%	Other (including Mission Related):	100.000/	100.000/
OAEM	-	=	Acceptable	100.00%	100.00%
Substandard/doubtful/loss	_	=	OAEM	-	=
	100.00%	100.00%	Substandard/doubtful/loss	100.00%	100.00%
•			•	100.0076	100.0070
Communication:	100.000/	06 100/	Total loans:		
Acceptable	100.00%	96.18%	Acceptable	93.62%	93.80%
OAEM	=	3.82	OAEM	6.18	6.07
Substandard/doubtful/loss			Substandard/doubtful/loss	0.20	0.13
	100.00%	100.00%	•	100.00%	100.00%

The following tables provide an aging analysis of the recorded investment in past due loans as of:

					June 30, 201	9			
(dollars in thousands)		Through Days Past Due	Days or ore Past Due	Т	otal Past Due	L	t Past Due or ess Than 30 nys Past Due	Total Loans	
Direct notes	\$	_	\$ _	\$	_	\$	16,598,104	\$	16,598,104
Real estate mortgage		66	488		554		1,136,834		1,137,388
Production and intermediate-term		2	138		140		988,342		988,482
Loans to cooperatives		-	-		_		507,467		507,467
Processing and marketing		_	_		_		1,020,182		1,020,182
Farm-related business		_	_		_		80,872		80,872
Communication		_	_		_		344,513		344,513
Power and water/waste disposal		_	_		_		582,430		582,430
Rural residential real estate		7,561	5,455		13,016		3,212,910		3,225,926
International		_	_		_		71,666		71,666
Lease receivables		_	_		_		3,292		3,292
Loans to OFIs		_	_		_		136,616		136,616
Other (including Mission Related)		_	_		_		7,749		7,749
Total	\$	7,629	\$ 6,081	\$	13,710	\$	24,690,977	\$	24,704,687

		December 31, 2018											
(dollars in thousands)		Through Days Past Due		90 Days or More Past Due		Total Past Due		t Past Due or ess Than 30 avs Past Due	т	otal Loans			
Direct notes	\$	Duc _	\$	Duc _	2	Duc	\$	16,459,760	\$	16,459,760			
Real estate mortgage	Ψ	1,419	Ψ	790	Ψ	2,209	ψ	1,112,905	Ψ	1,115,114			
Production and intermediate-term		3		363		366		1,142,038		1,142,404			
Loans to cooperatives		_		_		_		442,294		442,294			
Processing and marketing		_		_		_		980,507		980,507			
Farm-related business		_		_		_		51,538		51,538			
Communication		_		_		_		295,908		295,908			
Power and water/waste disposal		_		_		_		534,774		534,774			
Rural residential real estate		39,508		7,136		46,644		3,065,415		3,112,059			
International		_		_		_		71,650		71,650			
Lease receivables		_		_		_		387		387			
Loans to OFIs		_		_		_		134,721		134,721			
Other (including Mission Related)		_		_		_		8,127		8,127			
Total	\$	40,930	\$	8,289	\$	49,219	\$	24,300,024	\$	24,349,243			

Nonperforming assets (including related accrued interest as applicable) and related credit quality statistics are as follows:

(dollars in thousands) Nonaccrual loans:		June 30, 2019	Dece	ember 31, 2018
Nonaccrual loans:				
Real estate mortgage	\$	1,203	\$	1,460
Production and intermediate-term		119		453
Loans to cooperatives		7,277		7,492
Rural residential real estate		15,761		15,338
Total	\$	24,360	\$	24,743
Accruing restructured loans:				
Real estate mortgage	\$	458	\$	750
Production and intermediate-term		8,497		8,011
Rural residential real estate		2,812		2,929
Other including Mission Related)		3,957		4,092
Total	\$	15,724	\$	15,782
Accruing loans 90 days or more past due:				
Rural residential real estate	\$	_	\$	145
Total	\$	_	\$	145
Total nonperforming loans	\$	40,084	\$	40,670
Other property owned		2,741	*	2,842
Total nonperforming assets	\$	42,825	\$	43,512
Nonaccrual loans as a percentage of total loans		0.10%		0.10%
Nonperforming assets as a percentage of total loans and other property owned		0.17%		0.18%
Nonperforming assets as a percentage of capital		1.74%		1.96%

The following table presents information related to the recorded investment of impaired loans at period end. Impaired loans are loans for which it is probable that all principal and interest will not be collected according to the contractual terms of the loan.

(dollars in thousands)	June 30, 2019	Dec	cember 31, 2018
Impaired nonaccrual loans:			
Current as to principal and interest	\$ 17,143	\$	11,727
Past due	7,217		13,016
Total nonaccrual loans	\$ 24,360	\$	24,743
Impaired accrual loans:			
Restructured	\$ 15,724	\$	15,782
90 days or more past due	_		145
Total impaired accrual loans	\$ 15,724	\$	15,927
Total impaired loans	\$ 40,084	\$	40,670
Additional commitments to lend	\$ 953	\$	1,687

The following tables present additional impaired loan information at period end. Unpaid principal balance represents the contractual principal balance of the loan.

(dollars in thousands)			Jun	e 30, 2019			Thr	ee Months E	nded Jur	ne 30, 2019	Six Months Ended June 30, 2019					
Impaired Loans	Recorded Investment			Unpaid Principal Balance		delated lowance	Average Impaired Loans		Reco	est Income gnized on red Loans	Average Impaired Loans		Interest Income Recognized on Impaired Loans			
With a related allowance for credit losses:																
Real estate mortgage	\$	108	\$	107	\$	5	\$	106	\$	_	\$	107	\$	_		
Production and intermediate-term		_		_		-		_		_		_		_		
Loans to cooperatives		7,277		8,077		3,283		7,113		_		7,089		1		
Rural residential real estate		3,741		3,685		368		3,688		_		3,525		_		
Other (including Mission Related)		3,957		3,963		92		4,030		62		4,071		126		
Total	\$	15,083	\$	15,832	\$	3,748	\$	14,937	\$	62	\$	14,792	\$	127		
With no related allowance for cred	lit los	ses:														
Real estate mortgage	\$	1,553	\$	1,543	\$	_	\$	2,013	\$	33	\$	1,964	\$	176		
Production and intermediate-term		8,616		16,856		_		9,134		337		8,860		515		
Loans to cooperatives		_		_		-		_		_		_		_		
Rural residential real estate		14,832		14,651		-		13,612		199		13,923		407		
Other (including Mission Related)		_		_		_		_		_		_		_		
Total	\$	25,001	\$	33,050	\$	_	\$	24,759	\$	569	\$	24,747	\$	1,098		
Total impaired loans:																
Real estate mortgage	\$	1,661	\$	1,650	\$	5	\$	2,119	\$	33	\$	2,071	\$	176		
Production and intermediate-term		8,616		16,856		_		9,134		337		8,860		515		
Loans to cooperatives		7,277		8,077		3,283		7,113		_		7,089		1		
Rural residential real estate		18,573		18,336		368		17,300		199		17,448		407		
Other (including Mission Related)		3,957		3,963		92		4,030		62		4,071		126		
Total	\$	40,084	\$	48,882	\$	3,748	\$	39,696	\$	631	\$	39,539	\$	1,225		

(dollars in thousands)		D	ecem	ber 31, 201	8		Year Ended December 31, 201							
Impaired Loans		ecorded vestment	P	Inpaid rincipal Balance		elated lowance	In	verage npaired Loans	Interest Income Recognized on Impaired Loans					
With a related allowance for credit losses:														
Real estate mortgage	\$	_	\$	_	\$	_	\$	8	\$	_				
Production and intermediate-term		_		_		_		42		_				
Loans to cooperatives		7,492		7,995		3,951		7,684		46				
Rural residential real estate		3,923		3,864		718		1,991		_				
Other (including Mission Related)		4,092		4,083		135		4,192		259				
Total	\$	15,507	\$	15,942	\$	4,804	\$	13,917	\$	305				
With no related allowance for cred	lit loss	es:												
Real estate mortgage	\$	2,210	\$	2,424	\$	_	\$	6,259	\$	2,627				
Production and intermediate-term		8,464		16,988		_		8,175		781				
Loans to cooperatives		_		_		_		_		_				
Rural residential real estate		14,489		13,835		_		13,250		677				
Other including Mission Related)		_		_		_		_		_				
Total	\$	25,163	\$	33,247	\$	_	\$	27,684	\$	4,085				
Total impaired loans:														
Real estate mortgage	\$	2,210	\$	2,424	\$	_	\$	6,267	\$	2,627				
Production and intermediate-term		8,464		16,988		_		8,217		781				
Loans to cooperatives		7,492		7,995		3,951		7,684		46				
Rural residential real estate		18,412		17,699		718		15,241		677				
Other (including Mission Related)		4,092		4,083		135		4,192		259				
Total	\$	40,670	\$	49,189	\$	4,804	\$	41,601	\$	4,390				

A summary of changes in the allowance for loan losses and recorded investment in loans for each reporting period follows:

(dollars in thousands)	D	rect Notes		teal Estate Mortgage		duction and termediate- term	Ag	gribusiness*	Cor	nmunication	W	ower and ater/Waste Disposal		Rural Residential Real Estate	Inte	ernational	(	Other**		Total
Activity related to the allowance	e for ci	redit losses:																		
Balance at March 31, 2019	\$	-	\$	1,431	\$	2,564	\$	6,647	\$	744	\$	1,463	\$	4,589	\$	134	\$	380	\$	17,952
Charge-offs		_		_				-		-		_		(3)		-		-		(3)
Recoveries Provision for loan losses		_		256		137 140		(40)		(62)		(23)		173 59		-		1.4		310 444
Balance at June 30, 2019	\$		\$	356 1,787	S	2,841	S	6,607	S	682	S	1,440	S	4,818	\$	134	S	14 394	S	18,703
Balance at Julie 30, 2019	- J		Þ	1,/0/	J	2,041	3	0,007	3	002	J	1,440	3	4,010	Ф	134	Þ	374	J)	10,703
Balance at December 31, 2018	\$	_	\$	1,518	s	2,614	S	6,959	S	784	s	794	s	4,808	\$	134	S	438	\$	18,049
Charge-offs	Ψ	_	Ψ		Ψ.			-		-	Ψ	-	Ψ.	(9)	Ψ	-	Ψ	-		(9)
Recoveries		_		-		137		_		_		_		173		_		_		310
Provision for loan losses		_		269		90		352)		(102)		646		(154)		_		44)		353
Balance at June 30, 2019	\$	_	\$	1,787	\$	2,841	\$	6,607	\$	682	\$	1,440	\$	4,818	\$	134	\$	394	\$	18,703
Balance at March 31, 2018	\$		\$	1,504	s	2,570	S	5,244	\$	800	s	1,091	s	4,085	\$	34	S	459	\$	15,787
Charge-offs	Ф	_	Ф	1,304	Ф	(50)	٥	3,244	Ф	- 000	Ф	1,091	Ф	52)	Ф	34	Ф	439	٥	(102)
Recoveries		_		_		145		_		_		_		-		_		_		145
Provision for loan losses		_		57		540)		140		30		1)		141		6		6		161)
Balance at June 30, 2018	\$	=	\$	1,561	\$	2,125	\$	5,384	\$	830	\$	1,090	\$	4,174	\$	40	\$	465	\$	15,669
			_				_		_				_							
Balance at December 31, 2017 Charge-offs	\$	_	\$	1,635	\$	3,040 (50)	\$	3,633	\$	744	\$	1,128	\$	3,908 89)	\$	28	\$	265	\$	14,381 (139)
Recoveries		_		_		145		14		_		_		6		_		_		165
Provision for loan losses		_		(74)		(1,010		1,737		86		38)		349		12		200		1,262
Balance at June 30, 2018	\$	-	\$	1,561	\$	2,125	\$	5,384	\$	830	\$	1,090	\$	4,174	\$	40	\$	465	\$	15,669
Allowance on loans evaluated for		airment:																		
Individually	\$	-	\$	5	\$		\$	3,283	\$		\$		\$	368	\$		\$	92	\$	3,748
Collectively	_			1,782		2,841		3,324	φ.	682		1,440		4,450		134		302		14,955
Balance at June 30, 2019	\$	_	\$	1,787	\$	2,841	\$	6,607	\$	682	\$	1,440	\$	4,818	\$	134	\$	394	\$	18,703
Individually	\$	_	\$	_	S	_	\$	3,951	\$	_	\$	_	S	718	\$	_	S	135	\$	4,804
Collectively		-		1,518		2,614		3,008		784		794		4,090		134		303		13,245
Balance at December 31, 2018	\$	=	\$	1,518	\$	2,614	\$	6,959	\$	784	\$	794	\$	4,808	\$	134	\$	438	\$	18,049
Recorded investment in loans e	wolnote	ad for impairme	nt.																	
Individually	S S	16,598,104	\$	152,818	\$	8,616	S	7,277	S	_	\$	_	S	1,117,146	\$	_	\$	3,957	\$	17,887,918
Collectively	Ψ	-	Ψ	984,570	Ψ.	979,866		1,601,244		344,513	Ψ	582,430	Ψ.	2,108,780	Ψ	71,666	Ψ	143,700		6,816,769
Balance at June 30, 2019	\$	16,598,104	\$	1,137,388	\$	988,482	\$	1,608,521	\$	344,513	\$	582,430	\$	3,225,926	\$	71,666	\$	147,657	\$	24,704,687
T 12 11 11	¢.	16 450 560	6	156.001	6	0.461		7.404			6		6	1 207 217	¢		¢.	4.002		17.022.040
Individually Collectively	\$	16,459,760	\$	156,824 958,290	\$	8,464 1,133,940	\$	7,494 1,466,845	\$	295,908	\$	534,774	\$	1,287,215 1,824,844	\$	71,650	\$	4,092 139,143	\$	17,923,849 6,425,394
Balance at December 31, 2018		16,459,760	\$	1,115,114	S	1,133,940	S	1,466,845	S	295,908	S	534,774	S	3,112,059	S	71,650	S	143,235	S	24,349,243
Datance at December 31, 2018	Þ	10,437,700	Ф	1,113,114	Þ	1,142,404	٥	1,4/4,339	٥	473,708	Φ	334,114	٥	3,112,039	Ф	/1,030	Ф	143,433	J.	24,347,243

<sup>\*</sup>Includes the loan types: Loans to Cooperatives, Processing and Marketing, and Farm-related Business.

A restructuring of a debt constitutes a troubled debt restructuring (TDR) if the creditor for economic or legal reasons related to the debtor's financial difficulties grants a concession to the debtor that it would not otherwise consider. The following tables present additional information about pre-modification and post-modification outstanding recorded investment and the effects of the modifications that occurred during the periods presented. The tables do not include any purchased credit impaired loans.

(dollars in thousands)	Three Months Ended June 30, 2019													
Outstanding Recorded Investment		erest essions		incipal cessions		Other oncessions		Total	Charg	ge-offs				
Pre-modification:														
Rural residential real estate	\$	383	\$	186	\$	_	\$	569						
Total	\$	383	\$	186	\$	_	\$	569						
Post-modification:														
Rural residential real estate	\$	428	\$	189	\$	_	\$	617	\$	_				
Total	\$	428	\$	189	\$	_	\$	617	\$	_				

<sup>\*\*</sup>Includes the loan types: Mission Related Loans, Loans to OFIs, and Lease Receivables.

(dollars in thousands)	Six Months Ended June 30, 2019										
Outstanding Recorded Investment		Interest Concessions		Principal Concessions		Other Concessions		Γotal	Charge-off		
<b>Pre-modification:</b> Production and intermediate-term	\$	_	\$	781	\$	_	\$	781			
Rural residential real estate Total	•	1,273 1,273	•	186 967	•		•	1,459 2,240			

Total	Ψ	1,473	Ψ	707 ψ	ν	— ψ	2,270	•	
Post-modification: Production and intermediate-term Rural residential real estate	\$	- 1,347	\$	781 \$ 189	\$	- \$ -	781 1,536	\$	
Total	\$	1,347	\$	970 \$	\$	- \$	2,317	\$	_

(dollars in thousands)	Three Months Ended June 30, 2018											
Outstanding Recorded Investment	Interest Concessions		Principal Concessions		Other Concessions		Total		Chai	rge-offs		
Pre-modification												
Real estate mortgage	\$	_	\$	5,953	\$	_	\$	5,953				
Production and intermediate-term		_		169		_		169				
Loans to cooperatives		_		3,229		_		3,229				
Rural residential real estate		232		298		_		530				
Total	\$	232	\$	9,649	\$	_	\$	9,881				
Post-modification												
Real estate mortgage	\$	_	\$	5,836	\$	_	\$	5,836	\$	_		
Production and intermediate-term		_		95		_		95		49)		
Loans to cooperatives		_		3,229		_		3,229				
Rural residential real estate		240		299		_		539		_		
Total	\$	240	\$	9,459	\$	_	\$	9,699	\$	49)		

(dollars in thousands)	Six Months Ended June 30, 2018											
Outstanding Recorded Investment	Interest Concessions		Principal Concessions		Other Concessions		Total		Chai	rge-offs		
Pre-modification												
Real estate mortgage	\$	69	\$	5,953	\$	_	\$	6,022				
Production and intermediate-term		_		169		_		169				
Loans to cooperatives		_		3,229		_		3,229				
Rural residential real estate		232		840		_		1,072				
Total	\$	301	\$	10,191	\$	_	\$	10,492				
Post-modification												
Real estate mortgage	\$	69	\$	5,836	\$	_	\$	5,905	\$	_		
Production and intermediate-term		_		95		_		95		49)		
Loans to cooperatives		_		3,229		_		3,229		_		
Rural residential real estate		240		861		_		1,101		_		
Total	\$	309	\$	10,021	\$	_	\$	10,330	\$	49)		

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.

The following table presents outstanding recorded investment for TDRs that occurred during the previous twelve months and for which there was a subsequent payment default during the period. Payment default is defined as a payment that was thirty days or more past due.

	Thre	ee Months	Ended	June 30,	Six	Months 1	Ended .	June 30,
(dollars in thousands)		2019		2018		2019		2018
Defaulted troubled debt restructurings:								
Rural residential real estate	\$	561	\$	197	\$	561	\$	283
Total	\$	561	\$	197	\$	561	\$	283

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

		Tota	l TDRs		Nonaccrual TDRs						
(dollars in thousands)	Jui	ne 30, 2019	Decen	nber 31, 2018	Jur	ne 30, 2019	Decem	ber 31, 2018			
Real estate mortgage	\$	667	\$	914	\$	209	\$	164			
Production and intermediate-term		8,681		8,601		184		590			
Loans to cooperatives		7,286		6,951		7,286		6,951			
Rural residential real estate		5,677		4,795		2,865		1,866			
Other (including Mission Related)		3,957		4,092		_		_			
Total	\$	26,268	\$	25,353	\$	10,544	\$	9,571			
Additional commitments to lend	\$	953	\$	1,687							

The following table presents foreclosure information as of period end:

(dollars in thousands)	J	June 30, 2019	
Carrying amount of foreclosed residential real estate properties			
held as a result of obtaining physical possession	\$	165	
Recorded investment of consumer mortgage loans secured by			
residential real estate for which formal foreclosure			
proceedings are in process	\$	1,626	

#### Note 3 — Investments

## 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.

### Investments in Debt Securities

The Bank's investments in debt securities consist primarily of mortgage-backed securities (MBSs) collateralized by U.S. government or U.S. agency guaranteed residential and commercial mortgages (agency securities). Also included are asset-backed securities (ABSs) which are issued through the Small Business Administration and are guaranteed by the full faith and credit of the United States government. They are held to maintain a liquidity reserve, manage short-term surplus funds, and manage interest rate risk. These securities meet the applicable FCA regulatory guidelines related to government agency guaranteed investments.

Non-agency ABSs are included in available-for-sale investments. These securities must meet the applicable FCA regulatory guidelines which require them to be high quality, senior class, and rated in the top category (AAA/Aaa) by Nationally Recognized Statistical Rating Organizations (NRSROs) at the time of purchase. To achieve these ratings, the securities may have a guarantee of timely payment of principal and interest, credit enhancements achieved through over-collateralization or other means, priority of payments for senior classes over junior classes, or bond insurance. All of the non-agency securities owned have one or more credit enhancement features.

The FCA considers a non-agency security ineligible if it falls below the AAA/Aaa credit rating criteria and requires System institutions to provide notification to the FCA when a security becomes ineligible. At June 30, 2019, the Bank held no ineligible available-for-sale investments in debt securities.

Held-to-maturity investments in debt securities consist of Mission Related Investments (MRIs) acquired primarily under the Rural America Bond (RAB) pilot program. RABs are private placement securities, which generally have some form of credit enhancement.

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 risk rating scale used to also grade loans, falls below 9. Any other bonds purchased under the MRI program, approved on a case-by-case basis by the FCA, may have different eligibility requirements.

The FCA requires System institutions to provide notification when a security becomes ineligible. At June 30, 2019, the Bank held three RABs totaling \$686 thousand whose credit quality had deteriorated beyond the program limits.

Effective December 31, 2014, the FCA ended the pilot programs approved after 2004 as part of the Investment in Rural America initiative. Each institution participating in such programs may continue to hold its investments through the maturity dates for the investments, provided the institution continues to meet all approval conditions. The FCA can consider future participation in these programs on a case-by-case basis.

An agreement with a commercial bank requires AgFirst to maintain \$50.0 million as a compensating balance. At June 30, 2019, the Bank held \$42.8 million in U.S. Treasury securities for that purpose. The remainder of the compensating balance was held in cash in a demand deposit account. These securities are excluded when calculating the amount of eligible liquidity investments.

The Bank did not sell any investments during the first six months of 2019 or 2018.

#### Available-for-sale

A summary of the amortized cost and fair value of debt securities held as available-for-sale investments at period end follows:

	June 30, 2019												
(dollars in thousands)	Amortized Cost			Gross nrealized Gains	Gross Unrealized Losses			Fair Value	Yield				
U.S. Govt. Treasury Securities	\$	241,920	\$	651	\$	82	\$	242,489	2.32%				
U.S. Govt. Guaranteed		4,556,303		72,341		14,840		4,613,804	2.80				
U.S. Govt. Agency Guaranteed		2,232,639		18,124		11,616		2,239,147	3.15				
Non-Agency ABSs		782,322		1,952		686		783,588	2.32				
Total	\$	7,813,184	\$	93,068	\$	27,224	\$	7,879,028	2.84%				

	December 31, 2018											
(dollars in thousands)	Amortized Cost			Gross nrealized Gains	Gross Unrealized Losses			Fair Value	Yield			
U.S. Govt. Treasury Securities	\$	389,948	\$	212	\$	549	\$	389,611	2.34%			
U.S. Govt. Guaranteed		4,518,703		34,712		53,818		4,499,597	2.76			
U.S. Govt. Agency Guaranteed		2,297,134		11,373		35,758		2,272,749	2.74			
Non-Agency ABSs		782,839		136		5,736		777,239	2.15			
Total	\$	7,988,624	\$	46,433	\$	95,861	\$	7,939,196	2.67%			

# **Held-to-maturity**

A summary of the amortized cost and fair value of debt securities held as held-to-maturity investments at period end follows:

		June 30, 2019											
(dollars in thousands)	Ar	nortized Cost	Un	Gross realized Gains	Uni	Fross ealized osses	Fair Value		Yield				
U.S. Govt. Agency Guaranteed	\$	1,623	\$	_	\$	34	\$	1,589	5.82%				
RABs and Other		38,291		3,115		45		41,361	6.07				
Total	\$	39,914	\$	3,115	\$	79	\$	42,950	6.06%				

	December 31, 2018											
(dollars in thousands)	An	nortized Cost	Un	Gross realized Gains	Uni	Gross realized osses		Fair Value	Yield			
U.S. Govt. Agency Guaranteed	\$	1,679	\$	_	\$	36	\$	1,643	1.99%			
RABs and Other		40,373		2,999		121		43,251	6.06			
Total	\$	42,052	\$	2,999	\$	157	\$	44,894	5.89%			

A summary of the contractual maturity, estimated fair value and amortized cost of investment securities at June 30, 2019 follows:

### Available-for-sale

		1 Year Less		Due After 1 Year Through 5 Years Through 10 Years		Due After	10 Years	To	otal	
(dollars in thousands)	Amount	Weighted Average Yield	Amount	Weighted Average Yield	Amount	Weighted Average Yield	Amount	Weighted Average Yield	Amount	Weighted Average Yield
U.S. Govt. Treasury Securities	\$ 212,198	2.33%	\$ 30,291	2.27 %	\$ -	-%	\$ -	- %	\$ 242,489	2.32 %
U.S. Govt. Guaranteed	-	-	41,035	2.78	170,562	2.96	4,402,207	2.79	4,613,804	2.80
U.S. Govt. Agency Guaranteed	3,418	2.76	164,075	2.85	137,823	2.77	1,933,831	3.21	2,239,147	3.15
Non-Agency ABSs	68	1.32	604,231	2.32	179,289	2.34	_	-	783,588	2.32
Total fair value	\$ 215,684	2.34%	\$ 839,632	2.44 %	\$ 487,674	2.67 %	\$ 6,336,038	2.92 %	\$ 7,879,028	2.84 %
Total amortized cost	\$ 215,477		\$ 839,098		\$ 481,573		\$ 6,277,036		\$ 7,813,184	

# **Held-to-maturity**

	D		1 Year Less			er 1 Year 1 5 Years			r 5 Years 10 Years	Due After	10 Years	Tot	tal
			Weighted Average			Weighted Average			Weighted Average		Weighted Average		Weighted Average
(dollars in thousands)	Amo	unt	Yield	1	Amount	Yield	A	Amount	Yield	Amount	Yield	Amount	Yield
U.S. Govt. Agency Guaranteed	\$	_	- %	\$	-	- %	\$	-	-%	\$ 1,623	5.82 %	\$ 1,623	5.82 %
RABs and Other		_	_		16,543	6.21		_	_	21,748	5.95	38,291	6.07
Total amortized cost	\$	-	-%	\$	16,543	6.21 %	\$	_	-%	\$ 23,371	5.94 %	\$ 39,914	6.06 %
Total fair value	\$	-		\$	17,288		\$	_		\$ 25,662		\$ 42,950	

A substantial portion of these investments has contractual maturities in excess of ten years. However, expected maturities for these types of securities will 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. This also applies to those securities other-than-temporarily impaired for which a credit loss has been recognized but noncredit-related losses continue to remain unrealized. The following tables show the fair value and gross unrealized losses for all investments that have been 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.

					June 30	, 20	19			
		Less			12 Mo			<b>T</b>		
	_	12 M	onths		Or Gr	eate	r	Tot	tal	
		Fair	Unr	ealized	Fair	U	nrealized	Fair	U	Inrealized
(dollars in thousands)		Value	L	osses	Value		Losses	Value		Losses
U.S. Govt. Treasury Securities	\$	_	\$	_	\$ 27,373	\$	82)	\$ 27,373	\$	82)
U.S. Govt. Guaranteed		380,511		1,896	1,578,674		12,944	1,959,185		14,840
U.S. Govt. Agency Guaranteed		395,834		1,572	1,019,490		10,078	1,415,324		11,650
Non-Agency ABSs		-		-	318,856		686)	318,856		686)
RABs and Other		393		13)	2,002		32)	2,395		45)
Total	\$	776,738	\$	3,481	\$ 2,946,395	\$	23,822	\$ 3,723,133	\$	27,303

	_			December	r 31,	2018				
		Less 12 M		12 M Or G			Total			
(dollars in thousands)		Fair Value	realized Losses	Fair Value	Uı	realized Losses		Fair Value		realized osses
U.S. Govt. Treasury Securities	\$	198,819	\$ 174	\$ 27,062	\$	375	\$	225,881	\$	549
U.S. Govt. Guaranteed		550,215	3,386	2,092,608		50,432		2,642,823		53,818
U.S. Govt. Agency Guaranteed		421,629	2,095	1,230,414		33,699		1,652,043		35,794
Non-Agency ABSs		224,573	295	454,524		5,441		679,097		5,736
RABs and Other		171	52	2,638		69		2,809		121
Total	\$	1,395,407	\$ 6,002	\$ 3,807,246	\$	90,016	\$	5,202,653	\$	96,018

The recording of an impairment loss is predicated on: 1) whether or not management intends to sell the security, (2) whether it is more likely than not that management would be required to sell the security before recovering its costs, and (3) whether management expects to recover the security's entire amortized cost basis (even if there is no intention to sell). If the Bank intends to sell the security or it is more likely than not that it would be required to sell the security, the impairment loss recognized equals the full difference between amortized cost and fair value of the security. When the Bank does not intend to sell securities in an unrealized loss position and it is not more likely than not that it would be required to sell the securities, other-than-temporary impairment loss is separated into credit loss and noncredit loss. Credit loss is defined as the shortfall of the present value of the cash flows expected to be collected in relation to the amortized cost basis.

The Bank performs periodic credit reviews, including other-than-temporary impairment (OTTI) analyses, on its investment securities portfolio. The objective is to quantify future possible loss of principal or interest due on securities in the portfolio. Factors considered in determining whether an impairment is other-than-temporary include among others: (1) the length of time and the extent to which the fair value is less than cost, (2) adverse conditions specifically related to the industry, (3) geographic area and the condition of the underlying collateral, (4) payment structure of the security, (5) ratings by rating agencies, (6) the creditworthiness of bond insurers, and (7) volatility of the fair value changes.

The Bank uses the present value of cash flows expected to be collected from each debt security to determine the amount of credit loss. This technique requires assumptions related to the underlying collateral, including default rates, amount and timing of prepayments, and loss severity. Assumptions can vary widely from security to security and are influenced by such factors as loan interest rate, geographical location of the borrower, borrower characteristics, and collateral type.

Significant inputs used to estimate the amount of credit loss include, but are not limited to, performance indicators of the underlying assets in the security (including default rates, delinquency rates, and percentage of nonperforming assets), loan-to-collateral value ratios, third-party guarantees, current levels of subordination, vintage, geographic concentration, and credit ratings. The Bank obtains assumptions for the default rate, prepayment rate, and loss severity rate from an independent third party.

Based on the credit reviews discussed above, none of the securities currently in the Bank's portfolio were determined to be other-than-temporarily impaired.

For the six months ended June 30, 2019, net unrealized gains of \$115.3 million were recognized in OCI on available-for-sale investments in debt securities that are not other-than-temporarily impaired.

The Bank has not recognized any credit losses as the impairments are deemed temporary and result from non-credit related factors. The Bank has the ability and intent to hold these investments until a recovery of unrealized losses occurs, which may be at maturity, and at this time expects to collect the full principal amount and interest due on these securities. Substantially all of these investments were in U.S. government agency securities and the Bank expects these securities would not be settled at a price less than their amortized cost.

During the first six months of 2018, the Bank also held certain equity investments in Money Market funds. These funds were accounted for as investment securities but were classified as Cash Equivalents in the Balance Sheet and Statement of Cash Flows.

The following table summarizes gains (losses) for the period related to equity securities:

	Six Months Ended June 30,									
(dollars in thousands)		2019	2018							
Net gains (losses) on equity securities										
Net gains (losses) recognized	\$	- \$	807							
Less realized net gains (losses)		_	607							
Unrealized gains (losses)	\$	- \$	200							

### Note 4 — Debt

## **Bonds** and Notes

AgFirst, unlike commercial banks and other depository institutions, obtains funds for its lending operations primarily from the sale of Systemwide Debt Securities issued jointly by the System banks through the Funding Corporation. Certain conditions must be met before AgFirst can participate in the issuance of Systemwide Debt Securities. As one condition of participation, AgFirst is required by the Farm Credit Act and FCA regulations to maintain specified eligible assets at least equal in value to the total amount of debt obligations outstanding for which it is primarily liable. This requirement does not provide holders of Systemwide Debt Securities with a security interest in any assets of the banks.

In accordance with FCA regulations, each issuance of Systemwide Debt Securities ranks equally with other unsecured Systemwide Debt Securities. Systemwide Debt Securities are not issued under an indenture and no trustee is provided with respect to these securities. Systemwide Debt Securities are not subject to acceleration prior to maturity upon the occurrence of any default or similar event.

The following table provides a summary of AgFirst's participation in outstanding Systemwide Debt Securities by maturity. Weighted average interest rates include the effect of related derivative financial instruments.

_					June 30,	2019											
(dollars in thousands)	Bonds				Discount	Notes	Total										
Maturities		Amortized Cost	Weighted Average Interest Rate		Amortized Cost	Weighted Average Interest Rate		Amortized Cost	Weighted Average Interest Rate								
One year or less	\$	8,162,870	2.12%	\$	4,787,730	2.51%	\$	12,950,600	2.26%								
Greater than one year to two years		5,868,513	2.18		_	_		5,868,513	2.18								
Greater than two years to three years		3,497,820	2.19		_	_		3,497,820	2.19								
Greater than three years to four years		2,386,803	2.27		_	_		2,386,803	2.27								
Greater than four years to five years		1,371,772	2.40		_	_		1,371,772	2.40								
Greater than five years		5,060,672	2.87		_	_		5,060,672	2.87								
Total	\$	26,348,450	2.31%	\$	4,787,730	2.51%	\$	31,136,180	2.34%								

Discount notes are issued with maturities ranging from 1 to 365 days. The average maturity of discount notes at June 30, 2019 was 151 days.

# Note 5 — Shareholders' Equity

# Perpetual Preferred Stock

Payment of dividends or redemption price on issued Preferred Stock may be restricted if the Bank fails to satisfy applicable minimum capital adequacy, surplus, and collateral requirements.

# Accumulated Other Comprehensive Income

The following tables present the activity related to accumulated other comprehensive income (AOCI):

	Changes in Accumulated Other Comprehensive Income by Component (a)											
	For	r the Three Mo	onths Er	nded June 30,	F	or the Six Mo	nths End	led June 30,				
(dollars in thousands)		2019		2018		2019	2018					
Investment Securities:												
Balance at beginning of period	\$	8,140)	\$	57,030)	\$	49,429)	\$	20,026)				
Other comprehensive income before reclassifications Amounts reclassified from AOCI		73,983		15,694)		115,272		52,698)				
Net current period other comprehensive income		73,983		15,694)		115,272		52,698)				
Balance at end of period	\$	65,843	\$	72,724)	\$	65,843	\$	72,724)				
Cash Flow Hedges:												
Balance at beginning of period	\$	836	\$	590	\$	886	\$	18				
Other comprehensive income before reclassifications		_		31		_		16				
Amounts reclassified from AOCI		101)		73		151)		660				
Net current period other comprehensive income		101)		104		151)		676				
Balance at end of period	\$	735	\$	694	\$	735	\$	694				
Employee Benefit Plans:												
Balance at beginning of period	\$	3,027)	\$	4,623)	\$	3,109)	\$	4,748)				
Other comprehensive income before reclassifications		_		_		_		_				
Amounts reclassified from AOCI		82		125		164		250				
Net current period other comprehensive income		82		125		164		250				
Balance at end of period	\$	2,945)	\$	4,498)	\$	2,945)	\$	4,498)				
<b>Total Accumulated Other Comprehensive Income:</b>												
Balance at beginning of period	\$	10,331)	\$	61,063)	\$	51,652)	\$	24,756)				
Other comprehensive income before reclassifications		73,983		15,663)		115,272		52,682)				
Amounts reclassified from AOCI		19)		198		13		910				
Net current period other comprehensive income		73,964		15,465)		115,285		51,772)				
Balance at end of period	\$	63,633	\$	76,528)	\$	63,633	\$	76,528)				

Reclassifications Out of Accumulated Other Comprehensive Income (b)

				emporiremerous .	J 44 0 1 1	100411141400	ou o unu	comprehen	ive income (b)
	For t	he Three M	Three Months Ended June 30, For the Six Months Ended June 30,						
(dollars in thousands)	2019		2018		2019			2018	Income Statement Line Item
Investment Securities:									
Sales gains & losses	\$	_	\$	_	\$	_	\$	_	Gains (losses) on investments, net
Holding gains & losses		-		_		-		_	Net other-than-temporary impairment
Net amounts reclassified		-		_		-		-	
Cash Flow Hedges:									
Interest income		101		104)		151		676)	See Note 10.
Gains (losses) on other transactions		-		31		-		16	See Note 10.
Net amounts reclassified		101		73)		151		660)	
Employee Benefit Plans:									
Periodic pension costs		82)		125)		164)		(250)	See Note 7.
Net amounts reclassified		82)		125)		164)		250)	
Total reclassifications for period	\$	19	\$	198)	\$	13)	\$	910)	

<sup>(</sup>a) Amounts in parentheses indicate debits to AOCI.

<sup>(</sup>b) Amounts in parentheses indicate debits to profit/loss.

#### Note 6 — 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 1 assets and liabilities could include investment securities and derivative contracts that are traded in an active exchange market, in addition to certain U.S. Treasury securities that are highly liquid and are actively traded in over-the-counter 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 2 assets and liabilities could include investment securities that are traded in active, non-exchange markets and derivative contracts that are traded in active, over-the-counter markets.

Level 3 inputs are unobservable and supported by little or no market activity. Level 3 assets and liabilities could include investments and derivative contracts whose value is determined using pricing models, discounted cash flow methodologies, or similar techniques, and other instruments for which the determination of fair value requires significant management judgment or estimation. Level 3 assets and liabilities could also include investments and derivative contracts 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 most recent Annual Report to Shareholders.

The following table presents the changes in Level 3 assets and liabilities measured at fair value on a recurring basis for the periods presented. The Bank had no transfers of assets or liabilities measured on a recurring basis into or out of Level 1 or Level 2 during the reporting period.

	For the Six Months Ended June 30,												
		2	019		2018								
(dollars in thousands)		Mortgage Servicing Rights, Net		Forward Contracts, Net		Mortgage Servicing Rights, Net	Forward Contracts, Net						
Balance at beginning of period	\$	1,033	\$	-	\$	- \$	-						
Gains or (losses) included in earnings		_		_		_	_						
Gains or (losses) included in OCI		_		_		_	_						
Purchases		_		_		_	_						
Sales		_		_		_	_						
Issuances		_		_		1,032	1,435						
Settlements		264)		_		_	1,355)						
Transfers in and/or out of Level 3				_		_							
Balance at end of period	\$	769	\$	_	\$	1,032 \$	80						

Fair values are estimated at each period end date for assets and liabilities measured at fair value on a recurring basis. Other Financial Instruments are not measured at fair value in the statement of financial position, but their fair values are estimated as of each period end date. The following tables summarize the carrying amounts of these assets and liabilities at period end, and their related fair values.

Carrying Measurements						Jı	ine 30, 2019				
Investments in debt securities available-for-sale:   U.S. Govt. Treasury securities   \$242,489   \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(dollars in thousands)		Carrying		Level 1		Level 2		Level 3		
Nestments in debt securities available-for-sale:   U.S. Govt. Treasury securities   \$	Recurring Measurements										
U.S. Govt. Treasury securities	Assets:										
U.S. Govt. guaranteed	Investments in debt securities available-for-sale:										
U.S. Govt. Agency guaranteed   2,239,147	<u> </u>	\$	,	\$	_	\$		\$	_	\$	,
Non-Agency ABSs					_				_		, ,
Total investments in debt securities available-for-sale Federal funds sold, securities purchased under resale agreements, and other					_		, ,		_		, ,
Federal funds sold, securities purchased under resale agreements, and other derivative instruments haves as all other derivative instruments and other derivative instruments are servicing rights         525,000         —         14,839         —         9         —         14,839         —         9         —         14,839         —         9         —         14,839         —         9         —         9         14,839         —         9         —         9         14,839         —         9         —         9         14,839         —         9         —         9         4         14,839         —         9         —         9			783,588		_		783,588		_		783,588
Interest rate swaps and other derivative instruments   S			7,879,028		_		7,879,028		_		7,879,028
Mortgage servicing rights         834         -         -         834         14,839         14,839         -         -         14,839         14,839         -         -         14,839         14,839         14,839         8,404,028         8,343         8,419,701         14,839         8,404,028         8,343         8,419,701         14,839         8,404,028         8,343         8,419,701         14,839         8,404,028         8,343         8,419,701         14,839         8,404,028         8,343         8,419,701         8,419,701         14,839         8,404,028         8,343         8,419,701	under resale agreements, and other		525,000		_		525,000		_		525,000
Assets held in trust funds         14,839         14,839         14,839         8,404,028         8,343         8,419,701           Recurring Assets         8,419,701         14,839         8,404,028         8,383         8,419,701           Liabilities:         " Security and the derivative instruments of the swaps and other derivative instruments of the swaps and	Interest rate swaps and other derivative instruments		_		_		_		_		_
Recurring Assets         \$ 8,419,701         \$ 14,839         \$ 8,404,028         \$ 834         \$ 8,419,701           Liabilities:           Interest rate swaps and other derivative instruments         \$ - \$ - \$ - \$ - \$ - \$ 65         65           Mortgage servicing rights         65         - \$ - \$ - 65         65           Collateral liabilities         \$ - \$ - \$ - 65         65           Recurring Liabilities         \$ 65         - \$ - \$ 65         65           Recurring Measurements         \$ 65         - \$ - \$ 65         65           Assets:         - \$ - \$ - \$ 111,335         5 65           Impaired loans         \$ 11,335         - \$ - \$ 111,335         \$ 11,335           Other property owned         2,741         - \$ - \$ 14,671         \$ 14,671           Nonrecurring Assets         \$ 14,076         - \$ - \$ 14,671         \$ 14,671           Other Financial Instruments           Assets:         \$ 383,224         \$ - \$ - \$ 14,671         \$ 383,224           Investments in debt securities held-to-maturity         3,914         - \$ 1,589         41,361         42,950           Other Financial Assets         \$ 25,020,285         \$ 383,224         \$ 1,589         24,714,406         \$ 25,099,219	Mortgage servicing rights		834		_		_		834		834
Liabilities:           Interest rate swaps and other derivative instruments         \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Assets held in trust funds		14,839		14,839		_		_		14,839
Interest rate swaps and other derivative instruments	Recurring Assets	\$	8,419,701	\$	14,839	\$	8,404,028	\$	834	\$	8,419,701
Mortgage servicing rights         65         -         -         65         65         -         -         65         62         61         62         62 </td <td>Liabilities:</td> <td></td>	Liabilities:										
Mortgage servicing rights         65         -         -         65         65         -         -         65         62         61         62         62 </td <td>Interest rate swaps and other derivative instruments</td> <td>\$</td> <td>_</td> <td>\$</td> <td>_</td> <td>\$</td> <td>_</td> <td>\$</td> <td>_</td> <td>\$</td> <td>_</td>	Interest rate swaps and other derivative instruments	\$	_	\$	_	\$	_	\$	_	\$	_
Collateral liabilities         —         3,336         —         3,332 <t< td=""><td></td><td></td><td>65</td><td></td><td>_</td><td></td><td>_</td><td></td><td>65</td><td></td><td>65</td></t<>			65		_		_		65		65
Nonrecurring Measurements         Securring Measurements           Assets:         Securring Measurements           Impaired loans         \$ 11,335         \$ -         \$ -         \$ 11,335         \$ 11,335           Other property owned         2,741         -         -         \$ 14,671         \$ 14,671           Nonrecurring Assets         \$ 14,076         \$ -         \$ -         \$ 14,671         \$ 14,671           Other Financial Instruments           Assets:         Cash         \$ 383,224         \$ 383,224         \$ -         \$ -         \$ -         \$ 383,224           Investments in debt securities held-to-maturity         39,914         -         1,589         41,361         42,950           Loans         24,597,147         -         -         24,673,045         24,673,045           Other Financial Assets         \$ 25,020,285         383,224         1,589         24,714,406         25,099,219           Liabilities:           Systemwide debt securities         \$ 31,175,512         \$ 31,175,512         \$ 31,175,512			_		_		_		_		_
Assets:           Impaired loans         \$ 11,335         \$ - \$ 11,335         \$ 11,335           Other property owned         2,741         - \$ 2         3,336         3,336           Nonrecurring Assets         \$ 14,076         \$ - \$ 14,671         \$ 14,671           Cother Financial Instruments           Assets:           Cash         \$ 383,224         \$ 383,224         \$ - \$ - \$ 383,224           Investments in debt securities held-to-maturity         39,914         - \$ 1,589         41,361         42,950           Loans         24,597,147         - \$ 24,673,045         24,673,045           Other Financial Assets         \$ 25,020,285         \$ 383,224         \$ 1,589         \$ 24,714,406         \$ 25,099,219           Liabilities:           Systemwide debt securities         \$ 31,136,180         \$ - \$ \$ - \$ \$ 31,175,512         \$ 31,175,512		\$	65	\$	_	\$	_	\$	65	\$	65
Other property owned Nonrecurring Assets         2,741         -         -         3,336         3,336           Other Financial Instruments           Assets:           Cash Investments in debt securities held-to-maturity         \$383,224         \$383,224         \$-         \$-         \$-         \$383,224           Loans Other Financial Assets         \$24,597,147         -         -         24,673,045         24,673,045           Other Financial Assets         \$25,020,285         \$383,224         \$1,589         \$24,714,406         \$25,099,219           Liabilities:           Systemwide debt securities         \$31,136,180         \$-         \$-         \$31,175,512         \$31,175,512											
Nonrecurring Assets         \$ 14,076         \$ - \$ - \$ 14,671         \$ 14,671           Other Financial Instruments           Assets:         Sassacy   Sassacy	Impaired loans	\$	11,335	\$	_	\$	_	\$	11,335	\$	11,335
Other Financial Instruments       Assets:     383,224 \$ 383,224 \$ - \$ - \$ 383,224       Cash     \$ 383,224 \$ 383,224 \$ - \$ - \$ 383,224       Investments in debt securities held-to-maturity     39,914 - 1,589 \$ 41,361 \$ 42,950       Loans     24,597,147 2 - 24,673,045 \$ 24,673,045       Other Financial Assets     \$ 25,020,285 \$ 383,224 \$ 1,589 \$ 24,714,406 \$ 25,099,219       Liabilities:       Systemwide debt securities     \$ 31,136,180 \$ - \$ - \$ 31,175,512 \$ 31,175,512	Other property owned		2,741		_		_		3,336		3,336
Assets:         Cash         \$ 383,224         \$ 383,224         \$ - \$ - \$ 383,224           Investments in debt securities held-to-maturity         39,914         - 1,589         41,361         42,950           Loans         24,597,147         24,673,045         24,673,045           Other Financial Assets         \$ 25,020,285         \$ 383,224         \$ 1,589         \$ 24,714,406         \$ 25,099,219           Liabilities:           Systemwide debt securities         \$ 31,136,180         \$ - \$ - \$ 31,175,512         \$ 31,175,512	Nonrecurring Assets	\$	14,076	\$	_	\$	_	\$	14,671	\$	14,671
Cash         \$ 383,224         \$ 383,224         \$ -         \$ -         \$ 383,224           Investments in debt securities held-to-maturity         39,914         -         1,589         41,361         42,950           Loans         24,597,147         -         -         24,673,045         24,673,045           Other Financial Assets         \$ 25,020,285         \$ 383,224         \$ 1,589         \$ 24,714,406         \$ 25,099,219           Liabilities:           Systemwide debt securities         \$ 31,136,180         \$ -         \$ -         \$ 31,175,512         \$ 31,175,512											
Investments in debt securities held-to-maturity       39,914       -       1,589       41,361       42,950         Loans       24,597,147       -       -       24,673,045       24,673,045         Other Financial Assets       \$ 25,020,285       \$ 383,224       \$ 1,589       \$ 24,714,406       \$ 25,099,219         Liabilities:         Systemwide debt securities       \$ 31,136,180       \$ -       \$ -       \$ 31,175,512       \$ 31,175,512		\$	383 224	\$	383 224	\$	_	\$	_	\$	383 224
Loans         24,597,147         -         -         24,673,045         24,673,045           Other Financial Assets         \$ 25,020,285         \$ 383,224         \$ 1,589         \$ 24,714,406         \$ 25,099,219           Liabilities:           Systemwide debt securities         \$ 31,136,180         \$ -         \$ -         \$ 31,175,512         \$ 31,175,512		Ψ		Ψ	-	Ψ	1 589	Ψ	41 361	Ψ	
Other Financial Assets         \$ 25,020,285         \$ 383,224         \$ 1,589         \$ 24,714,406         \$ 25,099,219           Liabilities:         Systemwide debt securities         \$ 31,136,180         \$ -         \$ -         \$ 31,175,512         \$ 31,175,512	•		,		_		- 1,505		,		,
Systemwide debt securities \$ 31,136,180 \$ - \$ - \$ 31,175,512 \$ 31,175,512	Other Financial Assets	\$		\$	383,224	\$	1,589	\$		\$	
Systemwide debt securities \$ 31,136,180 \$ - \$ - \$ 31,175,512 \$ 31,175,512	Liabilities:										
		\$	31,136,180	\$	_	\$	_	\$	31,175,512	\$	31,175,512
	Other Financial Liabilities	\$	31,136,180	\$	_	\$	_	\$	31,175,512	\$	31,175,512

	December 31, 2018									
(dollars in thousands)		Total Carrying Amount		Level 1		Level 2		Level 3		Total Fair Value
Recurring Measurements										
Assets:										
Investments in debt securities available-for-sale:										
U.S. Govt. Treasury securities	\$	389,611	\$	_	\$	389,611	\$	_	\$	389,611
U.S. Govt. guaranteed		4,499,597		_		4,499,597		_		4,499,597
U.S. Govt. agency guaranteed		2,272,749		_		2,272,749		_		2,272,749
Non-agency ABSs		777,239		_		777,239		_		777,239
Total investments in debt securities available-for-sale		7,939,196		_		7,939,196		_		7,939,196
Federal funds sold, securities purchased										
under resale agreements, and other		100,000		_		100,000		_		100,000
Interest rate swaps and other derivative instruments		_		_		_		_		_
Mortgage servicing rights		1,102		_		_		1,102		1,102
Assets held in trust funds		13,834		13,834		_		_		13,834
Recurring Assets	\$	8,054,132	\$	13,834	\$	8,039,196	\$	1,102	\$	8,054,132
Liabilities:										
Interest rate swaps and other derivative instruments	\$		\$		\$		\$		\$	
Mortgage servicing rights	Φ	69	Φ	_	Φ	_	Φ	69	Φ	69
Collateral liabilities		09		_		_		09		09
	\$	69	\$		\$		\$	69	\$	69
Recurring Liabilities	Þ	09	Ф		Ф		Ф	09	Þ	09
Nonrecurring Measurements										
Assets:										
Impaired loans	\$	10,703	\$	_	\$	_	\$	10,703	\$	10,703
Other property owned		2,842		_		_		3,555		3,555
Nonrecurring Assets	\$	13,545	\$	_	\$	_	\$	14,258	\$	14,258
Other Financial Instruments										
Assets:										
Cash	\$	421,485	\$	421,485	\$	_	\$	_	\$	421,485
Investments in debt securities held-to-maturity		42,052				1,643		43,251		44,894
Loans		24,247,129		_		_		23,931,485		23,931,485
Other Financial Assets	\$	24,710,666	\$	421,485	\$	1,643	\$	23,974,736	\$	24,397,864
Liabilities:										
Systemwide debt securities	2	30,381,701	\$		\$		2	30,104,941	2	30,104,941
Other Financial Liabilities	-\$	30,381,701	\$		\$		\$	30,104,941	\$	30,104,941
Other Financial Liabilities	Φ	50,561,701	Φ		Φ		Φ	50,104,741	Φ	50,104,541

### SENSITIVITY TO CHANGES IN SIGNIFICANT UNOBSERVABLE INPUTS

Discounted cash flow or similar modeling techniques are generally used to determine the recurring fair value measurements for Level 3 assets and liabilities. Use of these techniques requires determination of relevant inputs and assumptions, some of which represent significant unobservable inputs as indicated in the tables that follow. Accordingly, changes in these unobservable inputs may have a significant impact on fair value.

Certain of these unobservable inputs will (in isolation) have a directionally consistent impact on the fair value of the instrument for a given change in that input. Alternatively, the fair value of the instrument may move in an opposite direction for a given change in another input. Where multiple inputs are used within the valuation technique of an asset or liability, a change in one input in a certain direction may be offset by an opposite change in another input having a potentially muted impact to the overall fair value of that particular instrument. Additionally, a change in one unobservable input may result in a change to another unobservable input (that is, changes in certain inputs are interrelated with one another, which may counteract or magnify the fair value impact.

# **Investments in Debt Securities**

The fair values of predominantly all Level 3 investments in debt securities have consistent inputs, valuation techniques and correlation to changes in underlying inputs. The models used to determine fair value for these instruments use certain significant unobservable inputs within a discounted cash flow or market comparable pricing valuation technique. Such inputs generally include discount rate components including risk premiums, prepayment estimates, default estimates and loss severities.

These Level 3 assets would decrease (increase) in value based upon an increase (decrease) in discount rates, defaults, or loss severities. Conversely, the fair value of these assets would generally increase (decrease in value if the prepayment input were to increase (decrease). Generally, a change in the assumption used for defaults is accompanied by a directionally similar change in the risk premium component of the discount rate (specifically, the portion related to credit risk) and a directionally opposite change in the assumption used for prepayments. Unobservable inputs for loss severities do not normally increase or decrease based on movements in the other significant unobservable inputs for these Level 3 assets.

### **Derivative Instruments**

Level 3 derivative instruments consist of forward contracts that represent a hedge of an unrecognized firm commitment to purchase agency securities at a future date. The value of the forward is the difference between the fair value of the security at inception of the forward and the measurement date. Significant inputs for these valuations would be discount rate and volatility. These Level 3 derivatives would decrease (increase) in value based upon an increase (decrease in the discount rate.

Generally, for derivative instruments which are subject to changes in the value of the underlying referenced instrument, change in the assumption used for default rate is accompanied by directionally similar change in the risk premium component of the discount rate (specifically, the portion related to credit risk) and a directionally opposite change in the assumption used for prepayment rates.

Unobservable inputs for discount rate and volatility do not increase or decrease based on movements in other significant unobservable inputs for these Level 3 instruments.

## Inputs to Valuation Techniques

Management determines the Bank's valuation policies and procedures. Internal valuation processes are calibrated annually by an independent consultant. Fair value measurements are analyzed on a periodic basis. Documentation is obtained for third party information, such as pricing, and periodically evaluated alongside internal information and pricing.

Quoted market prices are generally not available for the instruments presented below. Accordingly, fair values are based on judgments regarding anticipated cash flows, future expected loss experience, current economic conditions, risk characteristics of various financial instruments, and other factors. These estimates involve uncertainties and matters of judgment, and therefore cannot be determined with precision. Changes in assumptions could significantly affect the estimates.

Quantitative Information about Recurring and Nonrecurring Level 3 Fair Value Measurements

(dollars in thousands)	F	air Value	Valuation Technique(s)	Unobservable Input	Range
Impaired loans and other property owned	\$	14,671	Appraisal	Income and expense	
				Comparable sales	
				Replacement cost	
				Comparability adjustments	
Forward contracts	\$	_	Discounted cash flow	Estimated future cash flows	
Mortgage servicing rights, net	\$	769	Discounted cash flow	Constant prepayment rate	
				Probability of default	
				Loss severity	
				Fees and costs	

Information about Recurring and Nonrecurring Level 2 Fair Value Measurements

	Valuation Technique(s)	Input
Debt securities available-for-sale	Discounted cash flow	Constant prepayment rate
		Probability of default
		Loss severity
	Quoted prices	Price for similar security
	Vendor priced	-
Federal funds sold, securities purchased under resale agreements and other	Carrying value	Par/principal and appropriate interest yield
Interest rate swaps	Discounted cash flow	Annualized volatility
•		Counterparty credit risk
		Own credit risk

#### Information about Other Financial Instrument Fair Value Measurements

	Valuation Technique(s)	Input
Loans	Discounted cash flow	Prepayment forecasts
		Probability of default
		Loss severity
Cash and cash equivalents	Carrying value	Par/principal and appropriate interest yield
Debt securities held-to-maturity	Discounted cash flow	Constant prepayment rate
		Prepayment rates
		Probability of default
		Risk-adjusted spread
		Loss severity
	Quoted prices	Price for similar security
	Vendor priced	
Systemwide debt securities	Discounted cash flow	Benchmark yield curve
		Derived yield spread
		Own credit risk
Cash collateral	Carrying value	Par/principal and appropriate interest yield

<sup>\*</sup>Ranges for this type of input are not useful because each collateral property is unique.

# Note 7 — Employee Benefit Plans

Following are retirement and other postretirement benefit expenses for the Bank:

	For the Three Months Ended June 30,			For the Six Months Ended June 30,					
(dollars in thousands)		2019		2018		2019		2018	
Pension	\$	1,314	\$	1,705	\$	2,599	\$	3,501	
401k		842		811		1,690		1,565	
Other postretirement benefits		243		251		488		507	
Total	\$	2,399	\$	2,767	\$	4,777	\$	5,573	

Following are retirement and other postretirement benefit contributions for the Bank. Projections are based upon actuarially determined amounts as of the most recent measurement date of December 31, 2018.

(dollars in thousands)	Actual YTD Through 6/30/19	Projected Contributions for Remainder of 2019	Projected Total Contributions 2019
Pensions	\$ 279	\$ 4,440	\$ 4,719
Other postretirement benefits	488	464	952
Total	\$ 767	\$ 4,904	\$ 5,671

Contributions in the above table include allocated estimates of funding for multiemployer plans in which the Bank participates. These amounts may change when a total funding amount and allocation is determined by the respective Plans' Sponsor Committees. 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, 2019.

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

## Note 8 — Commitments and Contingencies

Under the Farm Credit Act of 1971, each System bank is primarily liable for its portion of Systemwide bond and discount note obligations. Additionally, the four banks are jointly and severally liable for the bonds and notes of the other System banks under the terms of the Joint and Several Liability Allocation Agreement. Published in the

<sup>\*\*</sup>The inputs used to estimate fair value for assets and liabilities that are obtained from third party vendors are not included in the table as the specific inputs applied are not provided by the vendor.

Federal Register, the agreement prescribes the payment mechanisms to be employed in the event one of the banks is unable to meet its debt obligations.

In the event a bank is unable to timely pay principal or interest on an insured debt obligation for which the bank is primarily liable, the Farm Credit System Insurance Corporation (FCSIC) must expend amounts in the Insurance Fund to the extent available to ensure the timely payment of principal and interest on the insured debt obligation. The provisions of the Farm Credit Act providing for joint and several liability of the banks on the obligation cannot be invoked until the amounts in the Insurance Fund have been exhausted. However, because of other mandatory and discretionary uses of the Insurance Fund, there is no assurance that there will be sufficient funds to pay the principal or interest on the insured debt obligation.

Once joint and several liability provisions are initiated, the FCA is required to make "calls" to satisfy the liability first on all non-defaulting banks in the proportion that each non-defaulting bank's available collateral (collateral in excess of collateralized obligations) bears to the aggregate available collateral of all non-defaulting banks. If these calls do not satisfy the liability, then a further call would be made in proportion to each non-defaulting bank's remaining assets. Upon making a call on non-defaulting banks with respect to a Systemwide Debt Security issued on behalf of a defaulting bank, the FCA is required to appoint FCSIC as the receiver for the defaulting bank. The receiver would be required to expeditiously liquidate assets of the bank.

AgFirst did not anticipate making any payments on behalf of its co-obligors under the Joint and Several Liability Allocation Agreement for any of the periods presented. The total amount outstanding and the carrying amount of the Bank's liability under the agreement are as follows:

(dollars in billions)	June 30, 2019	December 31, 2018
Total System bonds and notes	\$ 283.538	\$ 281.459
AgFirst bonds and notes	\$ 31.136	\$ 30.382

From time to time, legal actions are pending against the Bank in which claims for money damages are asserted. On at least a quarterly basis, the Bank 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 and legal counsel are of the opinion that the ultimate liability, if any, from these actions, would not be material in relation to the financial position of the Bank. No material liabilities have been recorded for any claims that may be pending.

## Note 9 — Additional Financial Information

# Offsetting of Financial and Derivative Assets

(dollars in thousands)	June 30, 2019	December 31, 2018
Derivatives	\$ _	\$ _
Reverse repurchase and similar arrangements	525,000	100,000
Gross Amount of Recognized Assets	525,000	100,000
Derivatives Reverse repurchase and similar arrangements	_ _	_ 
Gross Amounts Offset in the Balance Sheets	_	_
Net Amounts of Assets Presented in the Balance Sheets	\$ 525,000	\$ 100,000
Financial Instruments Cash Collateral Received	525,000	100,000
Gross Amounts Not Offset in the Balance Sheets	525,000	100,000
Net Amount	\$ _	\$ 

There were no liabilities subject to master netting arrangements or similar agreements during the reporting periods.

A description of any rights of setoff associated with recognized derivative assets and liabilities subject to enforceable master netting arrangements is located in Note 10, *Derivative Financial Instruments and Hedging Activities*.

The reverse repurchase agreements are accounted for as collateralized lending.

### Combined Districtwide Financial Statements

The accompanying financial statements exclude financial information of the Bank's affiliated Associations. The Bank and its affiliated Associations are collectively referred to as the AgFirst District. The Bank separately publishes certain unaudited combined financial information of the AgFirst District, including a statement of condition and statement of income, which can be found on the Bank's website at **www.agfirst.com**. Such information is not incorporated by reference into, and should not be considered a part of, this Second Quarter 2019 Report.

## Note 10 — Derivative Financial Instruments and Hedging Activities

One of the Bank's goals is to minimize interest rate sensitivity by managing the repricing characteristics of assets and liabilities so that the net interest margin is not adversely affected by movements in interest rates. The Bank maintains an overall interest rate risk management strategy that may incorporate the use of derivative instruments to achieve that goal. The primary derivative type used by the Bank has been interest rate swaps that convert fixed interest rate debt to a lower floating interest rate than was achievable from issuing floating rate debt with identical repricing characteristics. Interest rate swaps may allow the Bank to lower funding costs, diversify sources of funding, or alter interest rate exposures arising from mismatches between assets and liabilities. Under these arrangements, the Bank agrees with other parties to exchange, at specified intervals, payment streams calculated on a specified notional principal amount, with at least one stream based on a specified floating rate index.

The Bank may also purchase interest rate derivatives, such as caps, in order to reduce the impact of rising interest rates on its floating-rate debt, and floors, in order to reduce the impact of falling interest rates on its floating-rate assets. In addition, the Bank may also fix a price to be paid in the future which qualifies as a derivative forward contract.

As a result of interest rate fluctuations, interest income and interest expense related to hedged variable-rate assets and liabilities, respectively, will increase or decrease. Another result of interest rate fluctuations is that hedged fixed-rate assets and liabilities will appreciate or depreciate in market value. The effects of any earnings variability or unrealized changes in market value are expected to be substantially offset by the Bank's gains or losses on the derivative instruments that are linked to these hedged assets and liabilities. The Bank considers its strategic use of derivatives to be a prudent method of managing interest rate sensitivity, as it prevents earnings from being exposed to undue risk posed by changes in interest rates.

The primary types of derivative instruments used and the amount of activity for the periods presented is summarized in the following table:

	For the Six Months Ended June 30,								
	2019				2018				
Notional Amounts (dollars in millions)		eive- Swaps		ward tracts		eive- Swaps		rward ntracts	
Balance at beginning of period	\$	-	\$	-	\$		\$	_	
Additions		_		_		_		121	
Maturities/amortization		_		_		_		114)	
Terminations		_		_		_		_	
Balance at end of period	\$	_	\$	_	\$	_	\$	7	

By using derivative instruments, the Bank exposes itself to credit and market risk. If a counterparty fails to fulfill its performance obligations under a derivative contract, the Bank's credit risk will equal the fair value gain in the derivative. Generally, when the fair value of a derivative contract is positive, this indicates that the counterparty

owes the Bank, thus creating a repayment risk for the Bank. When the fair value of the derivative contract is negative, the Bank owes the counterparty and, therefore, assumes no repayment risk.

To minimize the risk of credit losses, the Bank transacts with counterparties that have an investment grade credit rating from a major rating agency and also monitors the credit standing of, and levels of exposure to, individual counterparties. The Bank typically enters into master agreements that contain netting provisions. These provisions allow the Bank to require the net settlement of covered contracts with the same counterparty in the event of default by the counterparty on one or more contracts.

Counterparty exposure related to derivatives at:

(dollars in millions)	June 30, 2019	December 31, 2018
Estimated Gross Credit Risk	\$-	\$-
Percent of Notional	-%	-%

There was no cash or securities collateral held or posted for the periods presented.

The Bank's derivative activities are monitored by its Asset-Liability Management Committee (ALCO) as part of the Committee's oversight of the Bank's asset/liability and treasury functions. The ALCO is responsible for approving hedging strategies that are developed within parameters established by the Bank's Board of Directors through the analysis of data derived from financial simulation models and other internal and industry sources. The resulting hedging strategies are then incorporated into the Bank's overall interest rate risk-management strategies.

#### Fair Value Hedges

For derivative instruments designated as fair value hedges, the gains or losses on the derivative, as well as the offsetting loss or gain on the hedged item attributable to the hedged risk, are recognized in current earnings. The Bank includes the gain or loss on the hedged items in the same line item (interest expense) as the offsetting loss or gain on the related interest rate swaps. Gains and losses on each derivative representing either hedge ineffectiveness or hedge components excluded from the assessment of effectiveness are recognized in current earnings.

#### Cash Flow Hedges

From time to time, the Bank may acquire when-issued securities, generally government agency guaranteed bonds. The when-issued transactions are contracts to purchase securities that will not be delivered until 30 or more days in the future. These purchase commitments are considered derivatives (cash flow hedges) in the form of forward contracts. Any difference in market value of the contracted securities, between the purchase and reporting or settlement dates, represents the value of the forward contracts. These amounts are included in OCI, and Other Liabilities or Other Assets as appropriate, as firm commitments in the Bank's Balance Sheet for each period end. As of the periods presented, the Bank had no commitments to purchase any when-issued bonds.

For derivative instruments that are designated and qualify as a cash flow hedge, such as the Bank's forward contracts, the effective portion of the gain or loss on the derivative is reported as a component of other comprehensive income and reclassified into earnings in the same period or periods during which the hedged transaction affects earnings. Gains and losses on the derivative representing either hedge ineffectiveness or hedge components excluded from the assessment of effectiveness are recognized in current earnings.

#### Derivatives Not Designated as Hedges

The Bank may enter into interest rate lock commitments, which are commitments to originate mortgage loans whereby the interest rate on the loan is determined prior to funding and the customers have locked into that interest rate. The Bank may also manage market risk on interest rate lock commitments and mortgage loans held for sale with corresponding forward sale commitments. Residential mortgage loans held for sale are recorded at fair value with changes in fair value recorded in Noninterest Income. Changes in mark-to-market from both interest rate lock commitments and corresponding forward sale commitments related to residential mortgage loans are included in Noninterest Income.

## Fair Values of Derivative Instruments

There were no derivative assets or liabilities designated as hedging instruments at the periods ended June 30, 2019 or December 31, 2018.

The following table sets forth the amount of net gain loss) on derivatives recognized in earnings and, for cash flow hedges, the amount of net gain (loss) recognized in AOCI for the three month periods presented. See Note 5, *Shareholders' Equity*.

(dollars in thousands)	Location of Gain or Loss) Recognized in, or Reclassified from AOCI into, Income	ount of C Recognic classified into, I	or AOCI	Amount of Gain or (Loss) Recognized in OCI on Derivative (Effective Portion)				
		2019		2018		2019		2018
Cash Flow Hedges:								
Firm Commitments	Interest Income Gains (Losses) on	\$ 151	\$	676)	\$	_	\$	-
Forward Contracts	Other Transactions	\$ -	\$	16	\$	_	\$	16

There were no derivative instruments not designated as hedging instruments at June 30, 2019 or December 31, 2018. The following table sets forth the amount of net gain loss) on derivatives not designated as hedging instruments recognized in earnings. No gain loss) was recognized in AOCI for the six month periods presented. See Note 5, *Shareholders' Equity*.

(dollars in thousands)	Location of Gain or Loss) Recognized in Income		nount of Ga		` /
		2019		2018	
Fair Value Derivatives:					
	Gains (Losses) on				
Forward Contracts	Other Transactions	\$	_	\$	1,435

 $<sup>* \</sup> Represents \ total \ gain \ or \ loss for \ fair \ value \ hedges \ and \ effective \ portion \ for \ cash \ flow \ hedges.$ 

### **Note 11 — Subsequent Events**

The Bank evaluated subsequent events and determined there were none requiring disclosure through August 8, 2019, which was the date the financial statements were issued.