



## PARTNERS IN PROGRESS



LEON T. AMERSON
CHIEF EXECUTIVE OFFICER



ELLIS W. TAYLOR CHAIRMAN OF THE BOARD



### MESSAGE FROM THE CHIEF EXECUTIVE OFFICER & THE CHAIRMAN OF THE BOARD

orking together toward common goals led AgFirst and our Association partners to enjoy a successful 2019.

AgFirst delivered strong financial results and provided high-quality technology, lending and other services to our partner Associations, which continue to provide exceptional service to their member-borrowers.

Our success as a District (AgFirst, together with our Association partners) can be attributed in large part to our cooperative structure, which empowers individual Associations with the scale needed to provide a broad array of high-quality, affordable products and services to their member-borrowers. But it is our District's cooperative spirit – AgFirst and Association partners working collaboratively to provide the best possible solutions and services – that is key.





#### **FINANCIALS**

The past year has shown us that AgFirst and our Association partners have the right collective vision, strategies and teams in place to execute on the opportunities that lie ahead. Our 2019 results speak to our success.

Continued favorable economic conditions overall resulted in moderate asset growth and relatively stable credit quality in 2019. The Bank's declining net interest margin in 2019 reflects the anticipated return toward a more sustainable level following a period of falling and low interest rates during which we called substantial volumes of debt. Flattening of the yield curves was also a contributing factor to the decline in net interest margin in 2019.

Despite the declining margins, favorable earnings and capital levels resulted in the Bank declaring patronage refunds of more than \$250 million to our Associations for 2019. Associations pay for the funding, technology and services provided by AgFirst primarily through the interest rates associated with their borrowings from AgFirst. The patronage refunds effectively reduced the Associations' average interest rate by 134 basis points, resulting in an after-patronage cost of only 1.99 percent, which is roughly equivalent to AgFirst's implied cost of funding Associations' borrowings.

#### **OUR COOPERATIVE MODEL**

The AgFirst District's cooperative structure helps fulfill our mission of supporting agriculture and rural communities with consistent, high-quality credit and financial services, today and tomorrow by taking advantage of economies of scale

without sacrificing the personalized, local service
Associations' member-borrowers have come

to expect.

OUR DISTRICT'S
COOPERATIVE SPIRIT AGFIRST AND ASSOCIATION
PARTNERS WORKING
COLLABORATIVELY TO
PROVIDE THE BEST
POSSIBLE SOLUTIONS AND
SERVICES - IS KEY.

Rooted in solidarity and shared vision, our cooperative model is structured to promote success. Associations have access to a full suite of solutions and services, which allows them to focus their energies on fulfilling customers' needs. In addition to providing funding to Associations, AgFirst strives to:

 Enhance productivity by delivering systems that enable AgFirst and Association staff to perform their work more efficiently and effectively.

- Support Association efforts to drive new customer acquisition and retention through integrated sales, marketing and service-delivery methods.
- Strengthen risk management with solutions that enable effective credit, regulatory and compliance support.



Taking advantage of economies of scale made possible by partnering with AgFirst, Associations can operate efficiently, which enhances profitability. Profits are then shared with Association member-borrowers and invested back into local communities.

AgFirst and our Association partners share a commitment to excellence, effectiveness and efficiency, and we remain focused on our mission of ensuring that our Associations continue to be safe, sound and dependable sources of credit for agriculture and rural America.

#### **OUR COOPERATIVE ATTITUDE**

While our cooperative structure is essential to our success, it would not work without the cooperative attitude AgFirst and Association teams share. We all share a deep understanding of and appreciation for the benefits of collaboration, which we put into practice every day to promote success throughout our District.

#### **OUR COOPERATIVE MISSION**

Agriculture is far more complex than it was 100 years ago, and today's Farm Credit customers have increasingly complex financing needs. Nonetheless, AgFirst and our Association partners are well-positioned to meet the financial needs of this generation and the next.

Our District's commitment is to:

- Make it possible for more people to begin farming and to stay in it.
- Create a culture that encourages people to do things the right way.
- Develop great talent and empower employees to work to their full potential.
- Deliver strong performance that provides value to our members.

Although Association needs are diverse, working together to achieve common goals remains our primary objective. Our presence and our commitment to the communities where we live and work is a unique feature of the cooperative way of doing business.

Ellis W. Taylor

Chairman of the Board

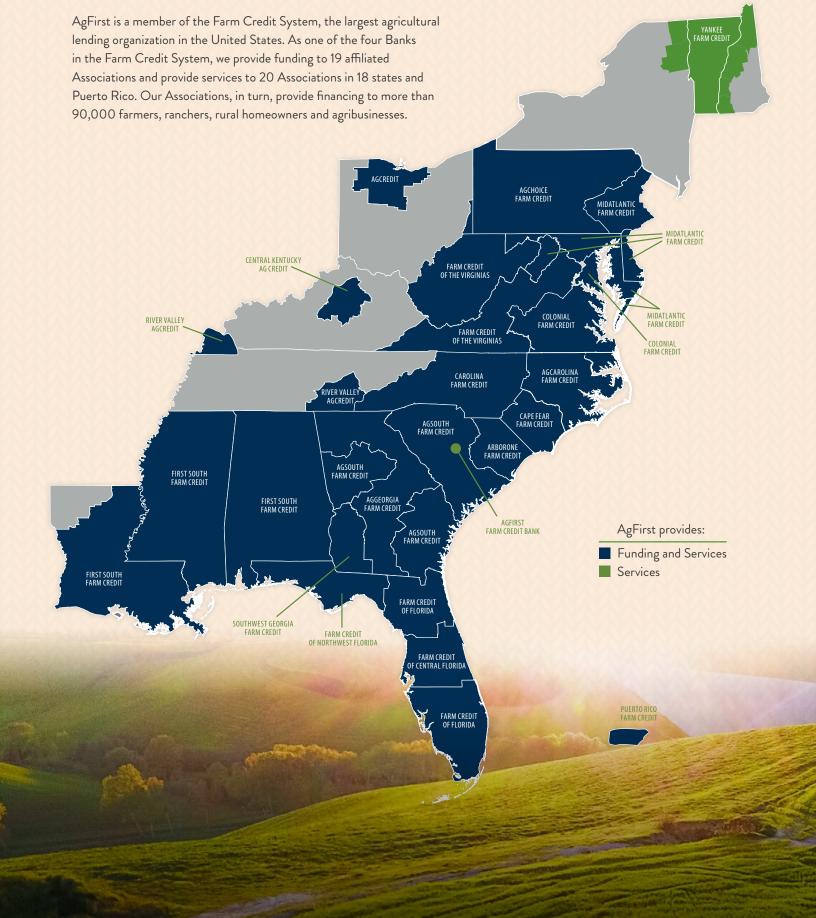
Len James

Ellis W. Taylor

Leon T. Amerson
Chief Executive Officer

March 12, 2020

## AGFIRST FARM CREDIT BANK & ASSOCIATIONS



### **BOARD OF DIRECTORS**



**GARY L. BALDOSSER AGCREDIT** 



JACK W. BENTLEY JR. AGGEORGIA FARM CREDIT



JENNY R. BLACK FARM CREDIT OF CENTRAL FLORIDA



SHERRY E. BOWDEN **OUTSIDE DIRECTOR** 



WILLIAM J. FRANKLIN JR. FARM CREDIT OF THE VIRGINIAS



**BONNIE V. HANCOCK OUTSIDE DIRECTOR** 



CURTIS R. HANCOCK JR. RIVER VALLEY AGCREDIT



WALTER C. HOPKINS SR. MIDATLANTIC FARM CREDIT



WILLIAM K. JACKSON AGCHOICE FARM CREDIT



J. ALVIN LYONS CENTRAL KENTUCKY **AGCREDIT** 



S. ALAN MARSH FIRST SOUTH FARM CREDIT



FRED R. MOORE JR. MIDATLANTIC FARM CREDIT



MICHAEL W. PATRICK FIRST SOUTH FARM CREDIT



THOMAS E. PORTER JR. CAROLINA FARM CREDIT





CAPE FEAR FARM CREDIT



**ELLIS W. TAYLOR** AGCAROLINA FARM CREDIT

## AGFIRST FARM CREDIT BANK 2019 ANNUAL REPORT



# AgFirst Farm Credit Bank 2019 ANNUAL REPORT

#### **Contents** Financial Statements 41-45 Management William E. Brown Senior Vice President and Chief Credit Officer Stephen Gilbert Senior Vice President and Chief Financial Officer Frances S. Griggs Senior Vice President and General Counsel **Board of Directors** Michael T. Stone Vice Chairman Sherry E. Bowden Director William J. Franklin, Jr. Director Bonnie V. Hancock Director Curtis R. Hancock, Jr. Director Walter C. Hopkins, Sr. Director William K. Jackson Director Fred R. Moore, Jr. Director

Thomas E. Porter, Jr. Director
William T. Robinson Director

### Report of Management

The accompanying Financial Statements and related financial information appearing throughout this Annual Report have been prepared by management of AgFirst Farm Credit Bank (Bank) in accordance with generally accepted accounting principles appropriate in the circumstances. Amounts which must be based on estimates represent the best estimates and judgments of management. Management is responsible for the integrity, objectivity, consistency, and fair presentation of the Financial Statements and financial information contained in this report.

Management maintains and depends upon an internal accounting control system designed to provide reasonable assurance that transactions are properly authorized and recorded, that the financial records are reliable as the basis for the preparation of all Financial Statements, and that the assets of the Bank are safeguarded. The design and implementation of all systems of internal control are based on judgments required to evaluate the costs of controls in relation to the expected benefits and to determine the appropriate balance between these costs and benefits. The Bank maintains an internal audit program to monitor compliance with the systems of internal accounting control. Audits of the accounting records, accounting systems and internal controls are performed and internal audit reports, including appropriate recommendations for improvement, are submitted to the Audit Committee of the Board of Directors and to the Chief Executive Officer.

AgFirst has a Code of Ethics for its Chief Executive Officer, Senior Financial Officers, and other Senior Officers who are involved with preparation and distribution of financial statements and maintenance of the records supporting the financial statements. A copy of the AgFirst Code of Ethics may be viewed on the Bank's website at www.agfirst.com.

The Financial Statements have been audited by an independent registered public accounting firm, whose report appears elsewhere in this Annual Report. The Bank is also subject to examination by the Farm Credit Administration.

The Financial Statements, in the opinion of management, fairly present the financial condition of the Bank. The undersigned certify that we have reviewed the 2019 Annual 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. The FCA has authorized the Bank to replace the regulatory required inclusion of condensed, unaudited districtwide statements of condition and statements of income in the footnotes to the Financial Statements with a separate document containing the same districtwide financial information.

Ellis W. Taylor

Chairman of the Board

Leon T. Amerson

President and Chief Executive Officer

Stephen Gilbert

Senior Vice President and Chief Financial Officer

March 12, 2020

## Five-Year Summary of Selected Financial Data

	As of or for the Year Ended December 31.									
(dollars in thousands)		2019		2018		2017		2016		2015
Balance Sheet Data										
Cash and cash equivalents	\$	1,094,559	\$	521,485	\$	713,287	\$	811,748	\$	672,622
Investments in debt securities		7,932,835		7,981,248		8,122,228		8,032,195		7,511,810
Loans		25,111,659		24,275,881		23,359,160		22,914,682		22,140,758
Allowance for loan losses		(18,032)		(18,049)		(14,381)		(14,783)		(15,113
Net loans		25,093,627		24,257,832		23,344,779		22,899,899		22,125,645
Other property owned		3,041		2,842		154		3,346		13,411
Other assets		381,027		315,055		307,009		310,409		297,112
Total assets	\$	34,505,089	\$	33,078,462	\$	32,487,457	\$	32,057,597	\$	30,620,600
Obligations with maturities of one year or less	\$	12,512,029	\$	11,764,284	\$	12,438,144	\$	12,740,594	\$	10,202,141
Obligations with maturities of greater than one year		19,662,242		19,090,481		17,806,498		17,091,755		18,163,438
Total liabilities		32,174,271		30,854,765		30,244,642		29,832,349		28,365,579
Perpetual preferred stock		49,250		49,250		49,250		49,250		115,000
Capital stock and participation certificates		325,278		317,840		313,752		301,905		307,483
Additional paid-in-capital		58,883		58,883		58,883		58,883		39,988
Retained earnings		20,002		20,002		20,002		20,002		2,,,,,,
Allocated		418		440		492		559		656
Unallocated		1,848,506		1,848,936		1,845,194		1,817,004		1,731,972
Accumulated other comprehensive income (loss)		48,483		(51,652)		(24,756)		(2,353)		59,922
Total shareholders' equity		2,330,818		2,223,697		2,242,815		2,225,248		2,255,021
Total liabilities and shareholders' equity	\$	34,505,089	\$	33,078,462	\$	32,487,457	\$	32,057,597	\$	30,620,600
Statement of Income Data										
Vet interest income	\$	407,662	2	410,167	\$	447,067	2	465,004	φ.	454,061
Provision for (reversal of allowance for) loan losses	Ψ	(935)	Ψ	3,542	Ψ	(551)	Ψ	(5,283)	Ψ	(3,157
Noninterest income (expense), net		(136,916)		(100,637)		(102,869)		(128,324)		(120,410
Net income	\$	271,681	\$	305,988	\$	344,749	\$		\$	336,808
Key Financial Ratios		, , ,		, , , , , , , , , , , , , , , , , , , ,	Ì	- / -		- ,		,
Rate of return on average:										
Total assets		0.81%		0.95%		1.09%		1.08%		1.14%
Total shareholders' equity		11.14%		13.03%		14.36%		14.45%		14.36%
Net interest income as a percentage of										
average earning assets		1.23%		1.29%		1.44%		1.53%		1.59%
Net (chargeoffs) recoveries to average loans		0.00%		0.00%		0.00%		0.02%		0.019
Total shareholders' equity to total assets		6.75%		6.72%		6.90%		6.94%		7.36%
Debt to shareholders' equity (:1)		13.80		13.88		13.49		13.41		12.58
Allowance for loan losses to loans		0.07%		0.07%		0.06%		0.06%		0.07%
Permanent capital ratio		19.32%		21.67%		22.21%		21.31%		20.71%
Total surplus ratio		*		*		*		21.21%		20.64%
Core surplus ratio		*		*		*		19.13%		18.489
Collateral ratio		*		*		*		106.69%		106.939
Common equity tier 1 capital ratio		18.90%		21.20%		21.73%		*		
Fier 1 capital ratio		19.29%		21.64%		22.18%		*		
Total regulatory capital ratio		19.45%		21.79%		22.31%		*		
Fier 1 leverage ratio		7.10%		7.53%		7.67%		*		
Unallocated retained earnings (URE) and URE equivalents leverage ratio		6.17%		6.58%		6.72%		*		
Net Income Distribution		,. •				, •				
Cash patronage declared	\$	266,942	\$	298,223	\$	312,456	\$	252,659	\$	241,079
Perpetual preferred stock dividend	-	1,798	-	1,622	-	1,146	-	1,548		1,743
				2,635		2,766		2,633		1,771
Stock dividend patronage declared		3,112		2.0.50		2,700		2.000		1.//!

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

AgFirst Farm Credit Bank (the Bank or AgFirst) is one of the banks of the Farm Credit System (the System), a federally chartered network of borrower-owned lending institutions comprised of cooperatives and related service organizations. Cooperatives are organizations that are owned and controlled by their members who use the cooperatives' products or services. The U.S. Congress authorized the creation of the first System institutions in 1916. The System was created to provide support for the agricultural sector because of its significance to the wellbeing of the U.S. economy and the U.S. consumer. The mission of the System is to support rural communities and agriculture with reliable, consistent credit and financial services, today and tomorrow. The System does this by making appropriately structured loans to qualified individuals and businesses at competitive rates and providing financial services and advice to those persons and businesses. Consistent with the mission of supporting rural America, the System also makes rural residential real estate loans, finances rural communication, power and water infrastructures and makes loans to support agricultural exports and to finance other eligible entities.

The nation is currently served by three Farm Credit Banks (FCBs) and one Agricultural Credit Bank (ACB), each of which has specific lending authorities within its chartered territory. The ACB also has certain additional specific nationwide lending authorities. AgFirst is chartered to serve the states of Pennsylvania, Delaware, Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, the Commonwealth of Puerto Rico and portions of the states of Ohio, Tennessee, Kentucky and Louisiana.

Each FCB and the ACB serves one or more of either Production Credit Associations (PCAs) that originate and service short- and intermediateterm loans, Federal Land Credit Associations (FLCAs) that originate and service long-term real estate mortgage loans, and/or Agricultural Credit Associations (ACAs) that originate and service both long-term real estate mortgage loans and short- and intermediate-term loans. PCAs, FLCAs and ACAs are collectively referred to as associations. AgFirst (Bank) and its related associations (Associations or District Associations) are collectively referred to as the AgFirst District (District). The Associations are structured as cooperatives in which each Association is owned by its borrowers. AgFirst also operates as a cooperative. The District Associations, certain Other Financing Institutions (OFIs), other System institutions, and preferred stockholders jointly own AgFirst. As of December 31, 2019, the District consisted of the Bank and nineteen District Associations. All nineteen were structured as ACA holding companies, with FLCA and PCA subsidiaries. The Bank and District Associations are regulated by the Farm Credit Administration (FCA).

The following commentary reviews the Financial Statements of condition and results of operations of AgFirst as of and for the years ended December 31, 2019, 2018, and 2017. This information should be read in conjunction with the accompanying Financial Statements, the Notes to the Financial Statements and other sections of this Annual Report. The Financial Statements were prepared under the oversight of the Audit Committee of the Bank's Board of Directors. For a list of the Audit Committee members, refer to the "Report of the Audit Committee" included in this Annual Report. See Note 1, *Organization and Operations*, in the Notes to the Financial Statements for a discussion of the operations of AgFirst.

#### FORWARD-LOOKING INFORMATION

Certain sections of this Annual Report contain forward-looking statements concerning financial information and statements about future economic performance and events, plans and objectives and assumptions underlying these projections and statements. These projections and statements are not based on historical facts but instead represent the Bank's current assumptions and expectations regarding the Bank's business, the economy and other future conditions. However, actual results and developments may differ materially from the Bank's expectations and predictions due to a number of risks and uncertainties, many of which are beyond the Bank's control. Forward-looking statements can be identified by words such as "anticipates," "believes," "could," "estimates," "may," "should," "will," or other variations of these terms that are intended to reference future periods.

These statements are not guarantees of future performance and involve certain risks and uncertainties, and actual results may differ from those in the forward-looking statements as a result of various factors. 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 that impact agricultural productivity and income of District borrowers;
- changes in U.S. government support of the agricultural industry and the 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.

#### AGRICULTURAL OUTLOOK

Production agriculture is a cyclical business that is heavily influenced by commodity prices, weather, tax and trade policies, interest rates and various other factors that affect supply and demand. The following United States Department of Agriculture (USDA) analysis provides a general understanding of the U.S. agricultural economic outlook. However, this outlook does not take into account all aspects of AgFirst's business. References to USDA information in this section refer to the U.S. agricultural market data and are not limited to information/data in the AgFirst District.

Agricultural production is a major use of land in the United States and the value of farm real estate accounted for 83 percent of the total value of the U.S. farm sector assets for 2019 according to the USDA in its February 5, 2020 forecast. Because real estate is such a significant component of the balance sheet of U.S. farms, the value of farm real estate is a critical measure of the farm sector's financial performance. Changes in farmland values also affect the financial well-being of agricultural producers because farm real estate serves as the principal source of collateral for farm loans.

USDA's most recent forecast anticipates that farm sector equity, the difference between farm sector assets and debt, is predicted to rise 1.9 percent in 2019. Farm real estate value is expected to increase 1.8 percent and non-real estate farm assets are expected to increase 3.4 percent, while farm sector debt is forecast to increase 3.4 percent in 2019. Farm real estate debt as a share of total debt has been rising since 2014 and is expected to account for 61.7 percent of total farm debt in 2019.

The USDA is forecasting farm sector solvency ratios to increase slightly in 2019 to 15.5 percent for the debt-to-equity ratio and 13.5 percent for the debt-to-asset ratio, which represent the second highest levels since 2009, but well below the peak of 28.5 percent and 22.2 percent in 1985. Working capital (which is defined as cash and cash convertible assets minus liabilities due to creditors within 12 months) is forecast to decline 12.7 percent in 2019 to \$61 billion from \$70 billion in 2018. Farm sector working capital has steadily declined since peaking at \$165 billion in 2012.

The USDA's most recent forecast estimates net farm income (income after expenses from production in the current year; a broader measure of profits) for 2019 at \$93.6 billion, a \$9.8 billion increase from 2018, \$6.8 billion above the 10-year average and 24.3 percent below its peak of \$123.7 billion in 2013. However, in terms of inflation adjusted dollars, 2019 net farm income is \$2.7 billion below the 10 year average. The forecasted increase in net farm income for 2019 compared with 2018 is primarily due to increases in direct government payments of \$10.0 billion to \$23.7 billion, primarily driven by higher payments from the Market Facilitation Program (MFP). The MFP was first implemented in 2018 and continued in 2019 to assist farmers impacted by trade disruptions.

The USDA's outlook projects net farm income for 2020 to increase to \$96.7 billion, a \$3.1 billion or 3.3 percent increase from 2019. The forecasted increase in net farm income for 2020 is primarily due to expected increases in cash receipts for animals and products of \$8.2 billion and crop receipts of \$1.9 billion, partially offset by an \$8.7 billion decrease in direct government payments due to an expected decline in payments from the MFP. The increase in animal and products receipts reflects growth in hogs, milk, cattle and poultry/eggs receipts, while the crop receipts are driven by fruit/nuts and corn. Soybeans receipts are anticipated to decrease as lower quantities outweigh an increase in price.

Expected agricultural commodity prices can influence production decisions of farmers and ranchers on planted/harvested acreage of crops or inventory of livestock and thus, affect the supply of agricultural commodities. Greater area of planted/harvested acreage and increased crop yields for some crops in recent years have contributed to increased supply, which exceeded demand. Also impacting yields are the growing conditions that are sensitive to weather conditions. Although not generally affected by weather, livestock and dairy prices are linked to crop prices as feed is a significant input cost to these producers.

Global economic conditions also influence demand for food and agricultural products, which affects U.S. agricultural trade. Therefore, U.S. exports and imports shift to reflect changes in trade policies, world population and economic growth. Also impacting U.S. agricultural trade is global supplies and prices, changes in the value of the U.S. dollar and the government support for agriculture.

Severe wet weather during 2019 adversely affected growing conditions in some production areas. In addition, farmers in certain locations were also impacted by inclement weather during the fall harvest. The impact of the weather related conditions on production agriculture was partially

offset by crop insurance proceeds. In addition to weather related challenges, reduced exports resulting from the trade tensions with China added to the already challenging agricultural economy. During 2018 and 2019, the MFP provided a material boost in farm sector income and in early 2020, the United States and China agreed to a "phase one" trade deal, which includes a significant commitment from China to buy agricultural products, among other items. However, the recent spread of the coronavirus (COVID-19) has created uncertainty about China's economic outlook and its ability to fulfill phase one commitments. Furthermore, African swine fever, which has been negatively impacting Asian hog production, may produce increased U.S. exports of pork and other protein products but could also negatively affect U.S. soybean exports.

The following table sets forth the commodity prices per bushel for certain crops, by hundredweight for hogs, milk, and beef cattle, and by pound for broilers and turkeys from December 31, 2016 to December 31, 2019:

Commodity	12/31/19	12/31/18	12/31/17	12/31/16
Hogs	\$47.30	\$43.40	\$48.60	\$43.10
Milk	\$20.70	\$16.60	\$17.20	\$18.90
Broilers	\$0.45	\$0.51	\$0.50	\$0.48
Turkeys	\$0.62	\$0.50	\$0.53	\$0.74
Corn	\$3.71	\$3.54	\$3.23	\$3.32
Soybeans	\$8.70	\$8.56	\$9.30	\$9.64
Wheat	\$4.64	\$5.28	\$4.50	\$3.90
Beef Cattle	\$118.00	\$117.00	\$118.00	\$111.00

The agricultural environment has been challenging during the past several years for many commodities. Currency fluctuations, ample inventories and U.S. trade policies, including retaliatory actions by other countries, have adversely impacted demand and prices for agricultural exports. This has reduced net farm income and eroded working capital from peak levels in 2012. The agriculture sector continues to adjust to market conditions. While producers' financial performance generally has been negatively impacted, MFP, crop insurance and producer operating adjustments have helped offset the severity of stress during the past two years.

Looking ahead, the MFP payments are not anticipated to continue and uncertainty remains about agricultural export markets. As a result, the District's financial performance and credit quality may be negatively impacted but is expected to remain sound overall. Additionally, geographic and commodity diversification across the District coupled with off-farm income support for many borrowers helps to mitigate the impact of periods of less favorable agricultural conditions. However, agricultural borrowers who are more reliant on off-farm income sources may be more adversely impacted by a weakened general economy.

#### CRITICAL ACCOUNTING POLICIES

The Bank's financial statements are reported in conformity with accounting principles generally accepted in the United States of America. Consideration of AgFirst's significant accounting policies is critical to the understanding of the Bank's results of operations and financial position because some accounting policies require complex or subjective judgments and estimates that may affect the reported amount of certain assets or liabilities as well as the recognition of certain income and expense items. In many instances, management has to make judgments about matters that are inherently uncertain. For a complete discussion of the Bank's significant accounting policies, see Note 2, Summary of Significant Accounting Policies, in the Notes to the Financial Statements. The following is a summary of the Bank's most critical accounting policies:

 Allowance for loan losses — The allowance for loan losses is management's best estimate of the amount of probable losses existing in and inherent in the Bank's 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. Significant individual loans are evaluated based on the borrower's overall financial condition, resources, and payment record, the prospects for support from any financially responsible guarantor, and, if appropriate, the estimated net realizable value of any collateral. The allowance for loan losses attributable to these loans is established by a process that estimates the probable loss inherent in the loans, taking into account various historical and current factors, internal risk ratings, regulatory oversight, and geographic, industry, and other factors.

In addition to the allowance for loan losses attributable to specific loans, the Bank may also establish a general allowance for loan losses based on management's assessment of risk inherent in the loans in the Bank's portfolio that were not specifically evaluated. In establishing general reserves, factors affecting certain commodity types or industries may be taken into consideration, as well as other factors previously discussed. Certain loan pools purchased from various Associations are analyzed in accordance with the selling Associations' allowance methodologies for assigning general and specific allowances. Allowances are established on these pools based on that analysis after Bank management's determination that the methodologies employed are appropriate.

Assessing the appropriateness of the allowance for loan losses is a dynamic process. Changes in the factors considered by management in the evaluation of losses in the loan portfolios could result in a change in the level of the allowance for loan losses and have a direct impact on the provision for loan losses and the results of operations.

The overall adequacy of the allowance for loan losses is validated further through periodic evaluations of the loan portfolio, which generally consider historical charge-off experiences adjusted for relevant factors. These factors include types of loans, credit quality, specific industry conditions, collateral value, general economic and political conditions, and changes in the character, composition, and performance of the portfolio, among other factors.

Valuation methodologies — Management applies various valuation methodologies to assets and liabilities that often involve a significant degree of judgment, particularly when active markets do not exist for the particular items being valued. Quoted market prices are referred to when estimating fair values for certain assets for which an observable active market exists. Management utilizes third-party valuation services to obtain fair value prices for the majority of the Bank's investment securities. Management also utilizes significant estimates and assumptions to value items for which an observable active market does not exist. Examples of these items include: impaired loans, other property owned, pension obligations, certain derivatives, certain investment securities and other financial instruments. These valuations require the use of various assumptions, including, among others, discount rates, rates of return on assets, repayment rates, cash flows, default rates, costs of servicing, and liquidation values. The use of different assumptions could produce significantly different asset or liability values, which could have material positive or negative effects on the Bank's results of operations.

#### LOAN PORTFOLIO

The Bank's loan portfolio consists primarily of direct loans to District Associations (Direct Notes), loan participations/syndications purchased, Correspondent Lending loans (primarily first lien rural residential mortgages), and loans to OFIs as shown below at December 31:

AgFirst Loan Portfolio						
(dollars in thousands)	2019		2018		2017	
Direct Notes*	\$ 16,830,432	67.02%	\$ 16,414,045	67.61%	\$ 15,838,709	67.81%
Participations/Syndications Purchased, net*	4,654,511	18.53	4,465,453	18.40	4,289,545	18.36
Correspondent Lending	3,484,332	13.88	3,261,996	13.44	3,099,334	13.27
Loans to OFIs	 142,384	0.57	134,387	0.55	131,572	0.56
Total	\$ 25,111,659	100.00%	\$ 24,275,881	100.00%	\$ 23,359,160	100.00%

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

The diversification of the Bank's loan volume by type for each of the past three years at December 31 is shown below:

(dollars in thousands)	201	9	201	8	2017	
Direct Notes	\$ 16,830,432	67.02 %	\$ 16,414,045	67.61 %	\$ 15,838,709	67.81 %
Rural Residential Real Estate	3,325,122	13.24	3,104,737	12.79	2,956,332	12.65
Real Estate Mortgage	1,135,611	4.52	1,107,077	4.56	1,096,159	4.69
Processing and Marketing	1,091,959	4.35	977,274	4.03	763,024	3.27
Production and Intermediate-Term	1,089,174	4.34	1,137,422	4.69	1,123,633	4.81
Power and Water/Waste Disposal	519,111	2.07	532,649	2.20	556,165	2.38
Loans to Cooperatives	473,462	1.88	441,510	1.82	527,654	2.26
Communication	356,584	1.42	295,833	1.22	226,371	0.97
Loans to OFIs	142,384	0.57	134,387	0.55	131,572	0.56
International	76,775	0.31	71,141	0.29	52,637	0.23
Farm-Related Business	62,595	0.25	51,393	0.21	71,471	0.31
Other	8,450	0.03	8,413	0.03	15,433	0.06
Total	\$ 25,111,659	100.00 %	\$ 24,275,881	100.00 %	\$ 23,359,160	100.00 %

Total loans outstanding were \$25.112 billion at December 31, 2019. Compared to the prior year, total loans outstanding increased \$835.8 million, or 3.44 percent. Loans outstanding at the end of 2018 increased \$916.7 million, or 3.92 percent, compared to December 31, 2017.

In 2019, loan demand benefitted from growth in the forestry, rural home loans, field crops, swine and processing segments. Growth in the poultry, rural home loans, cotton, field crops, and grains segments contributed to the increased loan growth in 2018. Sales of participation interests (see *Direct Notes* and *Participations/Syndications* sections below) reduce the Bank's loan volume. Future loan demand is difficult to predict; however, modest growth is expected.

Each loan in the Bank's portfolio is classified according to a Uniform Classification System, which is used by all System institutions. Below are the classification definitions:

- Acceptable Assets are expected to be fully collectible and represent the highest quality. In addition, these assets may include loans with properly executed and structured guarantees that might otherwise be classified less favorably.
- OAEM Assets are currently collectible but exhibit some potential weakness.
- Substandard Assets exhibit some serious weakness in repayment capacity, equity, and/or collateral pledged on the loan.

- Doubtful Assets exhibit similar weaknesses to substandard assets.
   However, doubtful assets have additional weaknesses in existing facts, conditions, and values that make collection in full highly questionable.
- Loss Assets are considered uncollectible.

The following table presents selected statistics related to the credit quality of AgFirst loans including accrued interest at December 31:

AgFirst Total Loans Credit Quality	2019	2018	2017
Acceptable	93.93%	93.80%	99.60%
OAEM	5.84	6.07	0.15
Substandard/doubtful/loss	0.23	0.13	0.25
Total	100.00%	100.00%	100.00%

Bank credit quality remained fairly stable during 2019. The decline in credit quality in 2018 compared to 2017 reflected in the table above was primarily due to a decline in the credit quality of a single Direct Note which is discussed in the *Direct Notes* section below.

#### Direct Notes

AgFirst's primary business is to provide funding, operational support, and technology services to District Associations. 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. Refer to Note 1, *Organization and Operations*, in the Notes to the Financial Statements for further discussion.

At December 31, 2019, total Direct Note volume outstanding was \$16.830 billion, an increase of \$416.4 million, or 2.54 percent, compared to December 31, 2018. Direct Note volume of \$16.414 billion at December 31, 2018, increased \$575.3 million, or 3.63 percent, compared to December 31, 2017. The Bank may sell participation interests in certain of its Direct Notes to another System bank. At December 31, 2019, Direct Note volume totaling \$1.093 billion had been sold to another System bank.

AgFirst provides each Association with core operating systems and support, including a loan origination system, loan accounting and servicing systems, general ledger and related financial accounting systems, and a human resources/payroll system. With AgFirst providing such systems and other services, the Associations are able to achieve operating efficiencies ordinarily afforded to much larger organizations. In addition, having common systems supported by AgFirst provides an opportunity to automate the AgFirst/Association lending process. One of the most significant advantages of this is a match-funding mechanism that automatically creates Direct Note advances that match the repricing and maturity characteristics of each underlying Association loan. The Associations' interest rate risk and operational risks are significantly reduced by employing these systems.

Ultimately, the Associations' ability to repay their Direct Note obligations is significantly dependent upon the repayment of loans made to their borrowers. Accordingly, AgFirst's direct and indirect credit exposure depends upon the creditworthiness of both the Associations that are direct borrowers and the underlying borrowers of the Associations whose loans, as well as the other assets of the Associations, secure their Direct Notes.

AgFirst continually monitors the risk-bearing capacity of each Association through a variety of mechanisms, including testing of the reliability of the Association's risk ratings assigned to each of its loans, periodic meetings with the Association's management and board of directors, regular formalized risk assessments, and prior approval of loan transactions that exceed the Association's delegated lending authority as determined by AgFirst.

All Associations are subject to an annual audit by an independent registered public accounting firm and periodic examination by the FCA. Each Association is required by regulatory mandate to perform continuous internal credit, appraisal, and audit reviews. Litigation in which Associations are involved is typically loan related and poses no material threat to their viability.

All Associations met all of the regulatory minimum capital requirements, and were considered well-capitalized at December 31, 2019. See *Regulatory Ratios* in the *Capital* section below for a discussion of the calculation of these ratios.

The following table presents selected statistics related to the credit quality of the Bank's Direct Note portfolio including accrued interest at December 31:

**Direct Note Credit Quality** 

	2019		201	8	2017		
	% Total	# Total	% Total	# Total	% Total	# Total	
Acceptable	91.96%	18	91.33%	18	100.00%	19	
OAEM	8.04	1	8.67	1	_	_	
Substandard/doubtful/loss		_	_	_	_		
Total	100.00%	19	100.00%	19	100.00%	19	

At December 31, 2019, no District Associations were operating under a written agreement with the FCA. As of December 31, 2019, one Association, which had total assets of \$1.846 billion, was operating under a special credit agreement pursuant to its GFA. The GFA events of default are not expected to have a significant adverse impact on the Bank's or District's financial condition or results of operations. This Direct Note was classified as OAEM at both December 31, 2019 and 2018.

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 Direct Notes. Virtually all assets of the various 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.

Associations employ a number of risk management techniques to limit credit exposures. Each Association has adopted underwriting standards, individual borrower exposure limits, commodity exposure limits, and other risk management techniques. AgFirst and the Associations actively purchase and sell loan participations to enhance the diversification of their portfolios. Some Associations utilize guarantees from U.S. government agencies/departments, including the Farm Service Agency, the Small Business Administration, and the Federal Agricultural Mortgage Corporation (Farmer Mac), as well as state government guarantees to further limit credit exposures. At December 31, 2019, Associations collectively had \$1.689 billion (7.51 percent of the total Association loan portfolio) under such government or GSE guarantees, compared to \$1.709 billion (7.85 percent) and \$1.723 billion (8.21 percent), at December 31, 2018 and 2017, respectively.

At year-end, the combined Associations' loans including accrued interest were classified as follows:

District Associations Credit Quality	2019	2018	2017
Acceptable	93.64%	94.03%	94.04%
OAEM	3.75	3.34	3.37
Substandard/doubtful/loss	2.61	2.63	2.59
Total	100.00%	100.00%	100.00%

Total Association loan delinquencies (loans 90 days or more past due) were 0.52 percent of the combined Association total loan assets at year-end 2019, compared to 0.47 percent for both year-end 2018 and 2017.

At December 31, 2019, nonperforming assets for the combined Associations represented 1.66 percent of total loans and other property owned or \$374.4 million, compared to 1.70 percent or \$369.7 million for 2018, and 1.62 percent or \$339.9 million for 2017. Nonperforming assets consist of nonaccrual loans, accruing restructured loans, accruing loans 90 days or more past due and other property owned.

Associations recognized net loan charge-offs of \$11.6 million for 2019, \$6.8 million for 2018, and \$3.1 million for 2017. As a percentage of total average loans, net charge-offs for the combined Associations were 0.05 percent for 2019 compared to 0.03 percent for 2018 and 0.01 percent for 2017. Each Association maintains an allowance for loan losses determined by its management based upon its unique circumstances.

Affiliated Associations serve primarily all or a portion of fifteen states and Puerto Rico. The District's large footprint results in geographic diversity, which is a natural credit risk-reducing factor for AgFirst. The following table illustrates the geographic distribution of the Associations' loan volume outstanding by state for the past three years at December 31:

**District Associations** 

	Pe	Percent of Portfolio							
State	2019	2018	2017						
North Carolina	16%	16%	16%						
Georgia	11	11	11						
Pennsylvania	10	10	10						
Virginia	10	10	11						
Florida	8	8	8						
Ohio	8	8	8						
Maryland	6	7	7						
South Carolina	6	6	6						
Alabama	5	5	5						
Kentucky	4	4	4						
Mississippi	3	3	3						
Delaware	2	2	2						
Louisiana	2	2	2						
Other	9	8	7						
Total	100%	100%	100%						

Only four states have loan volume representing 10.00 percent or greater of the total at December 31, 2019. Commodity diversification, guarantees, and borrowers with significant reliance on non-farm income further mitigate the geographic concentration risk in these states.

The diversity of commodity types also mitigates credit risk to AgFirst. The Associations' credit portfolios are comprised of a number of segments having varying, and in some cases complementary, characteristics. Commodity and industry categories are based on the Standard Industrial Classification system published by the federal government. This system is used to assign commodity or industry categories based on the largest agricultural commodity of the customer.

The following table illustrates the aggregate credit portfolio of the Associations by major commodity segments based on borrower eligibility at December 31:

District Associations

	Per	cent of Portfoli	io
Commodity Group	2019	2018	2017
Forestry	15%	14%	14%
Poultry	14	14	14
Field Crops	12	12	12
Cattle	9	9	9
Grains	8	9	8
Corn	6	6	6
Other Real Estate	5	5	5
Dairy	5	5	5
Cotton	3	3	3
Tree Fruits and Nuts	3	3	3
Swine	3	3	3
Nursery/Greenhouse	3	3	3
Rural Home	2	3	3
Processing	2	2	2
Other	10	9	10
Total	100%	100%	100%

As illustrated in the above chart, Associations had concentrations of 10.00 percent or greater in only three commodities: forestry, poultry, and field crops. All three commodities have geographic dispersion over the entire AgFirst District footprint. Also, many of these borrowers have significant secondary income from off-farm employment by a family member.

Forestry is divided principally into hardwood and softwood production and value-added processing. The timber from hardwood production is further processed into furniture, flooring, and high-grade paper and is generally located at the more northern latitudes and higher elevations of the AgFirst District. Softwood timber production is typically located in the coastal plains of the AgFirst District footprint and is used for building materials for the housing market and pulp to make paper and hygiene products. Timber producers at the Associations range in size from less than fifty acres to thousands of acres, with value-added processing being conducted at sawmills, planer mills, and paper mills.

Poultry concentrations within the Associations are dispersed among a large number of farm units producing poultry. Poultry concentration is further dispersed as production is segregated among chicken, turkey, and egg production.

The field crops commodity group represents a diverse group of commodities, including melons, vegetables, and other non-grain crops, which are grown throughout the AgFirst District.

The diversity of income sources supporting Association loan repayments, including a prevalence of non-farm income among the borrowers, further mitigates credit risk to AgFirst as demonstrated by the following table as of December 31 of each year:

District Associations

	Perc	Percent of Portfolio					
Commodity Group	2019	2018	2017				
Non-Farm Income	32%	32%	32%				
Grains	14	15	15				
Poultry	13	13	13				
Timber	6	6	6				
Dairy	5	5	5				
Fruit and Vegetables	5	4	4				
Beef	4	4	4				
Cotton	3	3	3				
Swine	3	3	3				
Farm-Related Business	3	2	2				
Landlords	2	2	2				
Nursery	2	2	2				
Tobacco	2	2	2				
Other	6	7	7				
Total	100%	100%	100%				

As mentioned previously, loans exceeding an Association's delegated lending authority must be pre-approved by AgFirst. As a result, larger agribusiness loans are typically analyzed by AgFirst's commercial lending staff as well as the Association's own lending staff prior to an Association committing to such loans.

Exposure to losses is reduced further through collateralization and other credit enhancements, including federal government guarantees.

Typically, multiple loans to the same borrower are cross-collateralized and cross-defaulted.

By law, all long-term loans must be secured by a first lien on real estate with an initial loan to appraised value not exceeding 85.00 percent. As of December 31, 2019, long-term loans represent 64.01 percent of District Association loans.

#### Participations/Syndications

AgFirst has a Capital Markets Unit that purchases and sells loan participations and syndications. The Bank's credit officers work with the Associations to originate loans within the District's territory, provide commercial loan expertise to augment the Associations' staff, as needed, and provide an outlet for loans that exceed Associations' various hold limits. Additionally, the Capital Markets Unit actively

pursues the purchase of participations and syndications originated outside of the District's territory by other System institutions, commercial banks, and other lenders. These loans may be held as earning assets of AgFirst or sub-participated to the Associations. The Capital Markets Unit also sells participations outside of the District to manage AgFirst's and the District Associations' loan concentrations and hold positions.

AgFirst's net participation volume outstanding increased by 4.23 percent from December 31, 2018 to December 31, 2019 and increased by 4.10 percent from December 31, 2017 to December 31, 2018. The increases in participation volume in both 2019 and 2018 were primarily due to a steady level of capital markets transactions coming to market.

The following table shows total participations/syndications portfolio credit exposures at December 31 of each year:

	 Participations/Syndications							
(dollars in thousands)	2019	2018	2017					
Participations Purchased	\$ 6,624,130	\$	6,135,958	\$	5,902,675			
Less: Participations Sold	1,969,619		1,670,505		1,613,130			
Net Outstanding	4,654,511		4,465,453		4,289,545			
Available Unused Commitments	2,861,118		2,787,278		2,758,104			
Letters of Credit and Guarantees	53,525		57,628		63,981			
Total Exposure	\$ 7,569,154	\$	7,310,359	\$	7,111,630			

Like the Associations, 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 relatively small number of 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.

The following table illustrates AgFirst's participations/syndications portfolio by geographic distribution at December 31:

			Pa	rtic	ipations/Sy	ndication	IS		
(dollars in thousands)	2019	)			2018			2017	
Georgia	\$ 758,164	16 %		\$	620,851	14 %	\$	637,365	15 %
Florida	464,224	10			450,727	10		410,831	10
North Carolina	396,829	9			428,467	10		394,070	9
California	244,288	5			210,530	5		168,544	4
Texas	241,355	5			315,173	7		286,539	7
Ohio	196,662	4			151,372	3		138,766	3
Minnesota	172,314	4			142,849	3		203,347	5
South Carolina	159,690	3			122,840	3		92,770	2
Louisiana	137,512	3			102,187	2		95,262	2
Kansas	129,501	3			128,313	3		10,820	-
Washington	115,570	2			103,435	2		95,792	2
New York	115,083	2			190,780	4		160,457	4
Connecticut	112,316	2			98,866	2		71,096	2
Missouri	110,030	2			102,513	2		81,240	2
Virginia	102,568	2			98,342	2		92,732	2
Colorado	102,342	2			85,111	2		93,693	2
New Jersey	99,712	2			87,462	2		108,058	3
Illinois	89,139	2			102,158	2		80,264	2
Pennsylvania	88,027	2			126,895	3		153,884	4
Kentucky	81,688	2			98,736	2		92,408	2
North Dakota	77,464	2			75,018	2		82,135	2
Mississippi	73,451	2			74,876	2		60,131	1
Nebraska	69,908	2			67,212	2		67,915	2
Other	 516,674	12			480,740	11		611,426	13
	\$ 4,654,511	100 %		\$	4,465,453	100 %	\$	4,289,545	100 %

The following participations/syndications table shows the various major commodity groups in the portfolio based on borrower eligibility and their percentage of the outstanding portfolio volume at December 31:

_	Percent of Portfolio							
Participations /Syndications Commodity Group	2019	2018	2017					
Forestry	20%	19%	21%					
Utilities	17	17	16					
Processing	16	16	15					
Field Crops	7	7	6					
Tree Fruits and Nuts	5	5	5					
Swine	4	4	4					
Dairy	4	4	3					
Nursery/Greenhouse	4	4	3					
Cattle	3	4	4					
Grains	2	2	2					
Tobacco	2	2	2					
Other	16	16	19					
Total	100%	100%	100%					

The following table segregates these loans based upon repayment dependency by commodity at December 31:

_	Percent of Portfolio							
Participations/Syndications Commodity Group	2019	2018	2017					
Timber	17%	16%	17%					
Rural Utilities	17	17	16					
Fruit and Vegetables	10	10	9					
Grains	8	8	8					
Non-Farm Income	6	8	7					
Swine	6	8	6					
Processing and Marketing	5	5	9					
Poultry	5	3	3					
Dairy	4	4	4					
Beef	3	3	4					
Nursery	3	3	3					
Fisheries	3	2	2					
Wine	2	3	3					
Tobacco	2	2	2					
Turkey	2	2	2					
Other	7	6	5					
Total	100%	100%	100%					

The following table represents the participations/syndications credit quality as of December 31:

Participations/Syndications

Credit Quality	2019	2018	2017
Acceptable	96.61%	98.37%	97.98%
OAEM	2.40	1.17	0.82
Substandard/doubtful/loss	0.99	0.46	1.20
Total	100.00%	100.00%	100.00%

Credit quality in the participations/syndications portfolio has remained relatively stable due to continued positive general economic performance.

#### Correspondent Lending

The Correspondent Lending portfolio consists primarily of first lien rural residential mortgages. Volume of this portfolio increased by 6.82 percent from year-end 2018 to 2019 and 5.25 percent from year-end

2017 to 2018. The growth from year-end 2017 to 2018 was affected by sales of \$83.6 million during 2018 in order to remain within regulatory limits pertaining to the percentage of the Bank's portfolio that can be invested in rural home loans. Absent the sales, the Correspondent Lending portfolio increased 7.95 percent for December 31, 2018 compared to December 31, 2017. The increase in the Correspondent Lending portfolio is primarily due to the impact of the continued favorable interest rate environment on new home construction and refinancing.

As of December 31, 2019, \$1.167 billion, or 33.49 percent, of loans in the Correspondent Lending portfolio were guaranteed and \$2.317 billion, or 66.51 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.

Correspondent Lending loans consist of the following at December 31:

		Agrirst Correspondent Lending								
(dollars in thousands)	2019		2018				2017			
Rural Home Loans – Guaranteed	\$	1,011,478	29.03%	\$	1,157,742	35.49%	\$	1,311,079	42.30%	
Part-time Farm Loans - Guaranteed		155,526	4.46		151,976	4.66		138,957	4.49	
Non-guaranteed Loans		2,317,328	66.51		1,952,278	59.85		1,649,298	53.21	
Total	\$	3,484,332	100.00%	\$	3,261,996	100.00%	\$	3,099,334	100.00%	

Rural home loans are underwritten to conform to Fannie Mae underwriting standards. Part-time farm loans conform to Farmer Mac underwriting standards. During 2019, AgFirst purchased \$608.1 million of rural home and part-time farm loans from various System associations.

Part-time farm loans represent first lien mortgages on homes with property characteristics (such as acreage or agricultural improvements) that may not conform to Fannie Mae standards. These loans are guaranteed by Farmer Mac.

The total volume owned as of December 31, 2019 was \$3.484 billion. The total volume serviced but not owned as of December 31, 2019 was \$119.6 million. The Correspondent Lending loans are sub-serviced through agreements with third parties.

At December 31, 2019, 99.66 percent of the total Correspondent Lending loans, including accrued interest, was classified as acceptable compared to 99.68 percent and 99.77 percent at December 31, 2018 and 2017, respectively. At December 31, 2019, 2018, and 2017, 0.34 percent, 0.32 percent, and 0.23 percent, respectively, were classified substandard. There were no loans classified as OAEM for the periods presented.

Rural home loans, combined with Rural Home Mortgage-backed Securities (RHMS), are limited to 15 percent of total loans outstanding as defined by the FCA. Based upon FCA guidelines, at December 31, 2019, the Bank's outstanding rural home instruments were 13.34 percent of total loans outstanding. The Bank monitors and manages the rural home asset level within the regulatory limit. As noted above, during 2018, the Bank sold \$83.6 million of Correspondent Lending loans in order to remain within this limit. Also during 2018, the FCA approved the Bank's request to include its held-to-maturity RHMS securities in its liquidity portfolio. The Bank then reclassified these securities to available-for-sale which provided additional capacity in the rural home asset limit. See *Mission Related Investments* section below and Note 4, *Investments*, for further discussion of Rural Home Mortgage-backed Securities.

#### RISK MANAGEMENT

The organizational structure of AgFirst facilitates communication of operational and risk management issues throughout all layers of management and across all functional areas. The Bank's Executive Committee is responsible for risk management, including:

- Providing overall leadership, vision, and direction for enterprise risk management;
- Establishing an integrated risk management framework for all aspects of risk across the organization;
- Ensuring development of risk management policies, including the quantification of management's risk appetite through specific risk limits;
- Implementing a set of risk metrics and reports, including key risk exposures and early warning indicators;
- Reviewing and approving recommendations for the allocation of capital to business activities based on risk, and optimizing the Bank's risk portfolio through business activities and risk transfer strategies;
- Improving the Bank's risk management readiness through coordination of communication and training programs, risk-based performance measurement and incentives, and other change management programs;
- Assigning responsibility for development of analytical systems and data management capabilities to support the risk management program; and
- Reporting periodically to the Board of Directors on actions taken to strengthen the Bank's system of internal control.

#### Overview

The Bank is in the business of making agricultural and other loans that requires accepting certain risks in exchange for compensation for the risks undertaken. Proper management of the risks inherent in AgFirst's business is essential for current and long-term financial performance. Prudent and disciplined risk management includes an enterprise risk management structure to identify emerging risks and evaluate risk implications of decisions and actions taken. The objectives of risk management are to identify and assess risks, and to properly and effectively mitigate, measure, price, monitor, and report risks in the Bank's business activities. Stress testing represents a critical

component of the Bank's risk management process. Stress testing is primarily an analysis performed under a wide range of economic scenarios, including unlikely but plausible economic scenarios, and is designed to determine whether the Bank has enough capital to withstand the impact of adverse developments. The Bank is required by regulation to perform stress tests with a level of sophistication appropriate to its size and complexity. The Executive Committee provides oversight of the Bank's risk management functions through an integrated management committee structure, including the Bank's Asset/Liability Management Committee (ALCO), Loan Committee, Special Assets Committee, Internal Control over Financial Reporting (ICFR) Steering Committee, Data Governance Committee, and Senior Management Committee.

Types of risk to which the Bank has exposure include:

- structural risk risk inherent in the business and related to the System structures comprised of interdependent networks of cooperative lending institutions;
- credit risk risk of loss arising from an obligor's failure to meet the terms of its contract or failure to perform as agreed;
- interest rate risk risk that changes in interest rates may adversely
  affect the Bank's operating results and financial condition;
- liquidity risk risk arising from the inability to meet obligations
  when they come due without incurring unacceptable losses,
  including the ability to access the debt market;
- operational risk risk of loss resulting from inadequate or failed internal processes, systems, or controls; errors by employees; fraud; or external events;
- reputational risk risk of loss resulting from events, real or
  perceived, that shape the image of the Bank, the System, or any of
  its entities, including the impact of investors' perceptions about
  agriculture and rural financing, the reliability of Bank or System
  financial information, or the actions of any System institution; and
- *political risk* risk of loss of support for the System and agriculture by federal and state governments.

#### Structural Risk Management

Structural risk results from the fact that AgFirst, along with its related Associations, is part of the System, which is comprised of banks and associations that are cooperatively owned, directly or indirectly, by their borrowers. Each System institution is responsible for its own risk management, and there are no formal processes or procedures in place to mandate Systemwide risk mitigation actions. Because System institutions are financially and operationally interdependent, this structure at times requires action by consensus or contractual agreement. The Federal Farm Credit Banks Funding Corporation (Funding Corporation) provides for the issuance, marketing, and processing of Systemwide Debt Securities using a network of investment dealers and dealer banks. The System banks fund association loans with Systemwide debt. Refer to Note 6, Debt, in the Notes to the Financial Statements for further discussion. The banks are jointly and severally liable for the repayment of Systemwide Debt Securities, exposing each bank to the risk of default of the others. Although capital at the association level reduces the banks' credit exposures with respect to their related associations, that capital may not be available to support the payment of principal and interest on Systemwide Debt Securities.

In order to mitigate this risk, the System utilizes two integrated contractual agreements executed by and among the banks—the Amended and Restated Contractual Interbank Performance Agreement (CIPA) and the Third Amended and Restated Market Access Agreement (MAA). Under provisions of the CIPA, a score is calculated quarterly that measures the financial condition and performance of each district using various ratios that take into account each district's and bank's capital, asset quality, earnings, interest-rate risk, and liquidity. Based on these measures, the CIPA establishes an agreed-upon standard of financial condition and performance that each district must achieve and maintain. The CIPA also establishes monetary penalties if the performance standard is not met. These penalties will

occur at the same point at which a bank would be required to provide additional monitoring information under the MAA.

The MAA establishes criteria and procedures for the banks that provide operational oversight and control over a bank's access to System funding if the creditworthiness of the bank declines below certain agreed-upon levels. The MAA provides for the identification and resolution of individual bank financial problems in a timely manner and discharges the Funding Corporation's statutory responsibility for determining conditions for each bank's participation in each issuance of Systemwide Debt Securities.

#### Credit Risk Management

Credit risk arises from the potential inability of an obligor to meet its repayment obligation and exists in outstanding loans, leases, letters of credit, unfunded loan commitments, the investment portfolio and derivative counterparty credit exposures. The Bank manages credit risk associated with lending activities through an assessment of the credit risk profile of individual obligors. The Bank sets underwriting standards and lending policies consistent with FCA regulations, which provide direction to loan officers and are approved by the Board of Directors.

The credit risk management process begins with an analysis of a potential obligor's credit history, repayment capacity and financial position. Repayment capacity focuses on the obligor's ability to repay the obligation based on cash flows from operations or other sources of income. Real estate mortgage loans must be secured by first liens on the real estate collateral. As required by FCA regulations, each institution that makes loans on a secured basis must have collateral evaluation policies and procedures.

The credit risk rating process for loans uses a two-dimensional loan rating structure, incorporating a 14-point risk rating scale to identify and track a borrower's probability of default and a separate scale addressing loss given default. The loan rating structure reflects estimates of loss through two components, borrower risk and transaction risk. Borrower risk is the risk of loss driven by factors intrinsic to the borrower. The transaction risk or facility risk is related to the structure of a credit (tenor, terms, and collateral).

Through their participation in loans or interests in loans to/from other institutions within the System and outside the System, the Bank and Associations limit their exposure to both borrower and commodity concentrations. This also allows the Bank and Associations to manage growth and capital, and to improve geographic diversification. Concentration risk is reviewed and measured by industry, product, geography and customer limits.

Although neither the Bank nor any other System institution receives any direct government support, credit quality is indirectly enhanced by government support in the form of program payments to borrowers, which improve their ability to honor their commitments. However, due to the geographic location of the District and the resulting types of agriculture, government programs account for a relatively small percentage of net farm income in the territory served by the District Associations.

As a result of the continued performance of the general economy and the Bank's efforts to resolve problem assets, the Bank's high-risk assets continue to be a small percentage of total loan volume and total assets. High-risk assets, including accrued interest, at December 31, are detailed in the following table:

(dollars in thousands)	2019	2018	2017
AgFirst High-risk Assets			
Nonaccrual loans	\$ 23,494	\$ 24,743	\$ 21,303
Accruing restructured loans	15,639	15,782	15,978
Accruing loans 90 days past due	_	145	_
Total high-risk loans	39,133	40,670	37,281
Other property owned	3,041	2,842	154
Total high-risk assets	\$ 42,174	\$ 43,512	\$ 37,435
Ratios			
Nonaccrual loans to total loans	0.09%	0.10%	0.09%
High-risk assets to total assets	0.12%	0.13%	0.12%

#### 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 at December 31, 2019 were \$23.5 million compared to \$24.7 million at December 31, 2018. Nonaccrual loans decreased \$1.2 million during 2019 due primarily to repayments of \$5.3 million and reinstatements to accrual status of \$3.5 million, partially offset by loan balances transferred to nonaccrual status of \$7.4 million. At December 31, 2019, total nonaccrual loans were primarily classified in the rural home loan (73.05 percent of the total) and field crops (26.95 percent) segments. Nonaccrual loans were 0.09 percent of total loans outstanding at December 31, 2019 compared to 0.10 percent and 0.09 percent at December 31, 2018 and 2017, respectively.

#### 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 decreased \$974 thousand since December 31, 2018 and totaled \$24.4 million at December 31, 2019. This total was comprised of \$15.6 million of accruing restructured loans and \$8.7 million of nonaccrual restructured loans. Restructured loans were primarily in the nursery/greenhouse (29.60 percent of the total), field crops (26.15 percent), and rural home loan (23.50 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 increased \$199 thousand since December 31, 2018 and totaled \$3.0 million at December 31, 2019. At December 31, 2019, the OPO balance consisted primarily of one real estate holding in the forestry segment totaling \$2.6 million (84.71 percent of the total OPO balance). See discussion of OPO expense in the *Noninterest Expenses* section below.

#### 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 Bank increases the allowance by recording a provision for loan losses in the income statement. Loan losses are recorded against and serve to decrease the allowance when management determines that any portion of a loan is uncollectible. Any subsequent recoveries are added to the

allowance. Impaired and certain other significant loans were reviewed individually to determine that appropriate reserves were in place at year-end. All other loans were analyzed collectively and general reserves were established based on that collective analysis including the risk rating and potential for loss given default of the underlying loans.

The following table presents the activity in the allowance for loan losses for the most recent three years at December 31:

AgFirst Allowance for Loan Losses A (dollars in thousands)	Activity 2019	2018	2017
Balance at beginning of year	\$ 18,049	\$ 14,381	\$ 14,783
Charge-offs:			
Production and Intermediate-Term	-	(49)	-
Rural Residential Real Estate	(39)	(160)	(177)
Total charge-offs	(39)	(209)	(177)
Recoveries:			
Real Estate Mortgage	-	_	34
Production and Intermediate-Term	777	267	292
Agribusiness	_	62	_
Rural Residential Real Estate	180	6	-
Total recoveries	957	335	326
Net (charge-offs) recoveries	918	126	149
Provision for (reversal of			
allowance for) loan losses	(935)	3,542	(551)
Balance at end of year	\$ 18,032	\$ 18,049	\$ 14,381
Ratio of net (charge-offs) recoveries during the period to average loans outstanding during the period	0.00%	0.00%	0.00%

The allowance for loan losses totaled \$18.0 million at December 31, 2019, as compared with \$18.0 million and \$14.4 million at December 31, 2018 and 2017, respectively. The allowance at December 31, 2019 included specific reserves of \$1.3 million (7.40 percent of the total) and \$16.7 million of general reserves (92.60 percent), related primarily to participation loans. The general reserves at December 31, 2019 included \$4.9 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. *See Provision for* Loan Losses section below for details regarding loan loss provision expense and reversals. During 2019, the rural home loan segment accounted for substantially all of the charge-offs (99.44 percent of the total) and the nursery/greenhouse segment accounted for the majority of recoveries (78.46 percent of the total). The total allowance at December 31, 2019 was comprised primarily of reserves for the rural home loan (27.98 percent of the total), field crops (10.16 percent), utilities (10.11 percent), processing (9.54 percent), forestry (8.48 percent), and nursery/greenhouse (7.20 percent) segments.

The allowance for loan losses by loan type for the most recent three years, at December 31, is presented in the following table:

(dollars in thousands)	2019	2018	2017
Real Estate Mortgage	\$ 1,667	\$ 1,518	\$ 1,635
Production and Intermediate-Term	3,448	2,614	3,040
Agribusiness	5,112	6,959	3,633
Communication	771	784	744
Power and Water/Waste Disposal	1,438	794	1,128
Rural Residential Real Estate	5,046	4,808	3,908
Loans to OFIs	308	299	95
International	137	134	28
Other	105	139	170
Total	\$ 18,032	\$ 18,049	\$ 14,381

The allowance for loan losses as a percentage of loans outstanding and as a percentage of certain other credit quality indicators, at December 31, is shown below:

_	2019	2018	2017
Allowance for loan losses to loans	0.07%	0.07%	0.06%
Allowance for loan losses to nonaccrual loans	76.75%	72.95%	67.51%
Allowance for loan losses to participation/			
syndication loans, Correspondent Lending			
loans, and loans to OFIs	0.22%	0.23%	0.19%

Due to positive economic conditions impacting borrowers in economically sensitive segments combined with management's emphasis on underwriting standards, the credit quality of the Bank loan portfolio has remained sound. Periods of uncertainty in the general economic environment create the potential for prospective risks in the loan portfolio. See Note 3, *Loans and Allowance for Loan Losses*, in the Notes to the Financial Statements and the *Critical Accounting Policies* section above for further information concerning the allowance for loan losses.

#### Interest Rate Risk Management

Interest rate risk is the risk of loss of future earnings or long-term market value of equity that may result from changes in interest rates. This risk can produce variability in Bank earnings (net interest spread achieved and net interest income earned) and, ultimately, the long-term

capital position of the Bank. The objective of interest rate risk management is to generate a reliable level of net interest income in any interest rate environment and to preserve the long-term market value of equity. AgFirst uses a variety of analytical techniques to manage the complexities associated with offering numerous loan options. Interest rate sensitivity gap analysis is used to monitor the repricing and maturity characteristics of AgFirst's interest-earning assets and interest-bearing liabilities. Simulation analysis is used to determine the potential change in net interest income and in the market value of equity under various possible future market interest rate environments.

AgFirst and the District Associations adhere to a philosophy that loans should be priced competitively in the market and that loan rates and spreads should be contractually established at loan closing such that a borrower is not subject to rate changes at the discretion of management or boards of directors. Therefore, District Association variable rate and adjustable rate loans are generally indexed to market rates, and fixed rate loans are priced based on market rates. Loan products offered by the Associations include Prime-indexed variable rate loans, LIBOR-indexed variable rate loans, one-, three-, and five-year Treasury-indexed adjustable rate loans, and fixed rate loans. Variable rate and adjustable rate loans are offered with or without caps. Terms are available for up to 30 years. A variety of repayment options are offered, with the ability to pay on a monthly, quarterly, semi-annual or annual frequency. In addition, customized repayment schedules may be negotiated to fit a borrower's unique circumstances.

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 December 31, 2019. The upward and downward shocks are generally based on movements in interest rates which are considered significant enough to capture the effects of embedded options and convexity within the assets and liabilities so that underlying risk may be revealed.

### Net Interest Income (dollars in thousands)

	(trona s in monsanas)	
Scenarios	Net Interest Income	% Change
+4.0% Shock	\$431,539	(2.08)%
+2.0% Shock	\$452,913	2.77 %
Base line **	\$440,698	- %
-50% of 3M Tbill ***	\$501.705	13.84 %

#### Market Value of Equity

(dollars	in	thouse	ınds)
-			

		1		-/		
Scenarios	Assets		Liabilities*		Equity*	% Change
Book Value	\$ 34,505,089	\$	32,223,521	\$	2,281,568	- %
+4.0% Shock	\$ 31,515,251	\$	29,946,901	\$	1,568,350	(37.19)%
+2.0% Shock	\$ 33,221,833	\$	31,149,484	\$	2,072,349	(17.01)%
Base line **	\$ 34,845,273	\$	32,348,199	\$	2,497,074	- %
-50% of 3M Tbill ***	\$ 35,237,501	\$	32,566,527	\$	2,670,974	6.96 %

<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 December 31, 2019, this downward shock was 78 basis points.

The following table sets forth the repricing characteristics of interest-earning assets and interest-bearing liabilities outstanding at December 31, 2019. The amount of assets and liabilities shown in the table, which reprice or mature during a particular period, were determined in accordance with the earlier of term-to-repricing or contractual maturity, anticipated prepayments, and, in the case of liabilities, the exercise of call options. Anticipated loan prepayments are based on AgFirst's historical prepayment activity during various interest rate cycles.

	Repricing/Maturity Gap Analysis									
(dollars in thousands)		0 to 6 Months		6 Months to 1 Year		1 to 5 Years		Over 5 Years		Total
Floating Rate Loans Adjustable/Indexed Loans	\$	6,135,294	\$	13,885	\$	18,442	\$	-	\$	6,167,621
Fixed Rate Loans Fixed Rate Loans Fixed Rate Prepayable		20,984 4,992,427		19,785 3,482,439		95,582 8,512,258		38,871 1,758,198		175,222 18,745,322
Nonaccrual Loans Nonaccrual Loans								23,494		23,494
Total Loans		11,148,705		3,516,109		8,626,282		1,820,563		25,111,659
Total Investments *		4,163,225		971,488		2,394,352		1,053,770		8,582,835
Other Interest-earning Assets		225,094		_		_		_		225,094
TOTAL INTEREST-EARNING ASSETS	\$	15,537,024	\$	4,487,597	\$	11,020,634	\$	2,874,333	\$	33,919,588
Interest-Bearing Liabilities Systemwide Bonds and Notes Interest Rate Swaps	\$	13,498,764	\$	4,916,000 -	\$	13,029,003	\$	280,000	\$	31,723,767
TOTAL INTEREST-BEARING LIABILITIES	\$	13,498,764	\$	4,916,000	\$	13,029,003	\$	280,000	\$	31,723,767
Interest Rate Sensitivity Gap	\$	2,038,260	\$	(428,403)	\$	(2,008,369)	\$	2,594,333		
Sensitivity Gap as a % of Total Earning Assets Cumulative Gap Cumulative Gap as a % of Total Earning Assets Rate Sensitive Assets/Rate Sensitive Liabilities	\$	6.01% 2,038,260 6.01% 1.15	\$	-1.26% 1,609,857 4.75% 0.91	\$	-5.92% (398,512) -1.17% 0.85	\$	7.65% 2,195,822 6.47% 10.27		
* Includes cash equivalents.										

At December 31, 2019, the Cumulative Repricing/Maturity Gap position of the Bank was asset sensitive (interest rates earned by the Bank on interest-earning assets may change or be changed more quickly than interest rates on interest-bearing liabilities used to fund these assets) out to one year as repricing/maturing assets exceeded liabilities that mature or reprice during that time period. Asset sensitivity implies an increase in net interest income in rising interest rate scenarios and lower net interest income in falling interest rate scenarios. However, the Repricing/Maturity Gap Analysis is a "point in time" view and is representative of the interest rate environment at December 31, 2019. The Repricing/Maturity Gap Analysis must be used with other analysis methods as the repricing and maturity attributes of balance sheet accounts react differently in changing interest rate environments. For example, during a period of rising interest rates, call options on fixed rate debt are not exercised and the debt terms extend to reflect the longer contractual maturity dates. Prepayment optionality on fixed rate assets also slows as the economic incentive for borrowers to refinance decreases and extends the asset's

To supplement the Repricing/ Maturity Gap Analysis, the Bank utilizes a financial simulation model for measuring interest rate sensitivity of net interest income and market value of equity. These two interest rate risk metrics are measured and reported on a monthly basis to the Bank's ALCO and quarterly to the Board of Directors. They are also calculated periodically during the month as the management of interest rate risk is an on-going function embedded in the funding operations. At December 31, 2019, the simulations reflected an increase of 2.77 percent in net interest income for a +200 basis point parallel shift in interest rates which was within the Bank's policy limit of -16.00 percent. The Bank's net interest income sensitivity to falling interest rates also reflected increases in net interest income as a result of the Bank's ability to call debt. Market value of equity reflected a negative sensitivity in rising interest rate scenarios due to the Bank's strategy of utilizing equity as a long-term funding source. When equity is used as long-term funding, its market value behaves similarly to a fixed rate bond. The simulations reflected a decrease of 17.01 percent in market value of equity for a +200 basis point parallel shift in interest rates which was within the Bank's policy limit of -20.00 percent and

appropriate for this funding structure. The Bank's market value of equity sensitivity to falling interest rates was not significantly impacted due to the current low level of interest rates.

At December 31, 2019, AgFirst had no outstanding interest rate swaps. The Bank may, under certain conditions, use derivatives for asset/liability management purposes to reduce interest rate risk. AgFirst policy prohibits the use of derivatives for speculative purposes. During 2019, the Bank's derivative activity was insignificant.

#### Future of LIBOR

In 2017, the United Kingdom's Financial Conduct Authority, which regulates LIBOR, announced its intention to stop persuading or compelling the group of major banks that sustains LIBOR to submit rate quotations after 2021. As a result, it is uncertain whether LIBOR will continue to be quoted after 2021. The District has exposure to LIBOR, including in financial instruments that reference LIBOR that mature after 2021.

The exposure arises from loans made to customers, investment securities purchased, Systemwide Debt Securities that are issued by the Funding Corporation on the Bank's behalf, and issued preferred stock. Alternative reference rates that replace LIBOR may not yield the same or similar economic results over the lives of the financial instruments, which could adversely affect the value of, and return on, instruments held. The LIBOR transition could result in paying higher interest rates on current LIBOR-indexed Systemwide Debt Securities, adversely affect the yield on, and fair value of, the instruments held that reference LIBOR, and increase the costs of or affect the ability to effectively use derivative instruments to manage interest rate risk. In addition, to the extent that a successful transition of the LIBOR-based financial instruments to an alternative rate based index that is endorsed or supported by regulators and generally accepted by the market as a replacement to LIBOR, there could be other ramifications including those that may arise as a result of the need to redeem or terminate such instruments.

Due to the uncertainty regarding the transition of LIBOR-based financial instruments, including when it will happen, the manner in which an alternative reference rate will apply, and the mechanisms for transitioning LIBOR-based instruments to instruments with an alternative rate, the expected financial impact of the LIBOR transition cannot yet be reasonably estimated.

The FCA has issued guidelines for System institutions to follow as they prepare for the expected phase-out of LIBOR. The guidelines direct each System institution to develop a LIBOR transition plan designed to provide an orderly roadmap of actions that will reduce LIBOR exposure over time. The FCA identified the following as important considerations in the development of each entity's transition plan:

- a governance structure to manage the transition,
- an assessment of exposures to LIBOR,
- an assessment of the fallback provisions in contracts and the impact of a LIBOR phase-out under those provisions,
- the establishment of strategies for reducing each type of LIBOR exposure,
- an assessment of the operational processes that need to be changed,
- a communication strategy for customers and shareholders,
- the establishment of a process to stay abreast of industry developments and best practices,
- the establishment of a process to ensure a coordinated approach, to the extent possible, across the District, and
- a timeframe and action steps for completing key objectives.

The District will continue to analyze potential risks associated with the LIBOR transition, including financial, accounting, operational, legal, reputational and compliance risks.

At this time, it is difficult to predict whether or when LIBOR will cease to be available or if SOFR will become the benchmark to replace LIBOR. Because transactions occur involving financial instruments that reference LIBOR, these developments could have a material impact on the District, borrowers, investors, and counterparties.

The following is a summary of District variable-rate financial instruments with LIBOR exposure at December 31, 2019:

(dollars in millions)	Due in 2020	Due in 2021	and hereafter
Investments	\$ _	\$ 9	\$ 2,194
Loans	785	947	3,677
Total	\$ 785	\$ 956	\$ 5,871
Systemwide debt securities	\$ 1,565	\$ 1,195	\$ 310
Preferred stock	_	-	49
Total	\$ 1,565	\$ 1,195	\$ 359

#### Liquidity Risk Management

Liquidity risk management is necessary to ensure the Bank's ability to meet its financial obligations. 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 primary 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.

#### Cash, Cash Equivalents and Investments

As of December 31, 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.

Eligible liquidity investments are classified according to three 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. agency investments. Additionally, a supplemental liquidity buffer in excess of the 90-day minimum liquidity reserve is set to provide coverage to at least 120 days.

At December 31, 2019, AgFirst met all individual level criteria and had a total of 222 days of maturing debt coverage. The Bank's cash and cash equivalents position provided 27 days of the total liquidity coverage. Investment securities fully backed by the U.S. government or U.S. government agencies provided 170 days of liquidity. An additional 25 days of coverage were provided by a supplemental liquidity buffer. Cash provided by the Bank's operating activities, primarily generated from net interest income in excess of operating expenses and maturities in the loan portfolio, is an additional source of liquidity for the Bank that is not reflected in the coverage calculation.

Cash, cash equivalents and investment securities as of December 31, 2019 totaled \$9.027 billion compared to \$8.503 billion and \$8.836 billion at December 31, 2018 and 2017, respectively.

An agreement with a commercial bank requires AgFirst to maintain \$50.0 million as a compensating balance. At December 31, 2019, the Bank held \$42.7 million in U.S. Treasury securities for that purpose. The remainder of the compensating balance is held in cash in a demand deposit account. These securities are excluded when calculating the amount of eligible liquidity investments.

AgFirst's cash, cash equivalents and investment portfolio consisted of the following security types as of December 31:

		AgFirst Ca	sh, Cash l	Equivalents an	d Investment S	Securities			
(dollars in thousands)	2	019		2018		2017			
Investment Securities Available-for-Sale									
U.S. Govt. Treasury Securities	\$ 143,839	1.82%	\$	389,611	4.88%	\$	490,097	6.03%	
U.S. Govt. Guaranteed	4,539,387	57.22		4,499,597	56.38		4,535,213	55.84	
Rural Housing U.S. Govt. Agency Guaranteed	391,922	4.94		425,953	5.33		94,549	1.16	
Other U.S. Govt. Agency Guaranteed	2,078,593	26.20		1,846,796	23.14		1,912,294	23.54	
Non-Agency Asset-Backed Securities	741,828	9.35		777,239	9.74		631,452	7.78	
Total Available-for-Sale	\$ 7,895,569	99.53%	\$	7,939,196	99.47%	\$	7,663,605	94.35%	
Investment Securities Held-to-Maturity									
Rural Housing U.S. Govt. Agency Guaranteed	\$ -	-%	\$	_	-%	\$	399,513	4.92%	
Farmer Mac Guaranteed	1,239	0.02		1,679	0.02		2,297	0.03	
Other Mission Related Investments	36,027	0.45		40,373	0.51		56,813	0.70	
Total Held-to-Maturity	37,266	0.47		42,052	0.53		458,623	5.65	
<b>Total Investment Securities</b>	\$ 7,932,835	100.00%	\$	7,981,248	100.00%	\$	8,122,228	100.00%	
Cash and Cash Equivalents									
Cash	\$ 219,465	20.05%	\$	244,678	46.92%	\$	440,768	61.79%	
Interest-earning Cash	225,094	20.57		176,807	33.90			_	
Repurchase Agreements	650,000	59.38		100,000	19.18		150,000	21.03	
Money Market Funds	,	_			_		122,519	17.18	
<b>Total Cash and Cash Equivalents</b>	\$ 1,094,559	100.00%	\$	521,485	100.00%	\$	713,287	100.00%	
<b>Total Investment Securities and</b>									
Cash and Cash Equivalents	\$ 9,027,394		\$	8,502,733		\$	8,835,515		

Cash and cash equivalents, which increased \$573.1 million from December 31, 2018 to a total of \$1.095 billion at December 31, 2019, consist primarily of noninterest-earning cash on deposit, interest-earning cash, and money market securities that are short-term in nature (maturities of overnight to 90 days). Money market securities must carry one of the two highest short-term ratings from a rating agency. Incremental movements in cash balances are due primarily to changes in liquidity needs in relation to upcoming debt maturities and investment portfolio reallocations.

FCA regulations 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 December 31, 2019, the Bank's eligible available-for-sale investments were 34.21 percent of the total loans outstanding. These investments serve to provide liquidity to the Bank's operations, to manage short-term funds, and to manage interest rate risk. AgFirst maintains an investment portfolio for these purposes comprised primarily of short-duration, high-quality investments. During 2018, the FCA approved the Bank's request to include its held-to-maturity RHMS securities, which totaled approximately \$341.4 million at December 31, 2018, in its liquidity portfolio. The Bank then reclassified these securities to available-for-sale which provided additional capacity relative to the rural home asset limit.

Investment securities totaled \$7.933 billion, or 22.99 percent of total assets at December 31, 2019, compared to \$7.981 billion, or 24.13 percent, as of December 31, 2018. Investment securities decreased \$48.4 million, or 0.61 percent, compared to December 31, 2018. Management maintains the available-for-sale liquidity investment portfolio size generally proportionate with that of the loan portfolio and within regulatory and policy guidelines. The Bank sold no investment securities during 2019. During 2018, the Bank sold investment securities totaling \$11.7 million which resulted in a realized net gain of \$13 thousand. During 2017, the Bank sold investment securities totaling \$77.4 million which resulted in a realized net loss of \$258 thousand. These transactions benefitted the Bank by reducing administrative costs and improving liquidity.

Investment securities classified as being available-for-sale totaled \$7.896 billion at December 31, 2019. 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. As of December 31, 2019, all of the non-agency asset-backed securities were rated in the top category (AAA/Aaa) by Nationally Recognized Statistical Rating Organizations (NRSROs).

AgFirst also maintains a portfolio of investments that are not held for liquidity purposes and are accounted for as a held-to-maturity portfolio. These investments are authorized by FCA regulations that allow investments in Farmer Mac securities and also in investments approved by the FCA as Mission Related Investments. Investment securities classified as held-to-maturity totaled \$37.3 million at December 31, 2019

Net unrealized gains related to investment securities were \$52.3 million at December 31, 2019, compared to net unrealized losses of \$49.4 million at December 31, 2018. These net unrealized gains and losses for 2019 and 2018, respectively, are reflected in Accumulated Other Comprehensive Income (AOCI) in the Financial Statements. The net unrealized gains and losses stem primarily from changes in interest rates

The Bank performs periodic credit reviews, including other-than-temporary impairment analyses, on its entire investment securities portfolio. Based on the results of all analyses, the Bank did not recognize any other-than-temporary credit related impairment during the year ended December 31, 2019. See *Noninterest Income* section below; Note 2, *Summary of Significant Accounting Policies*; and Note 4, *Investments*, in the Notes to the Financial Statements for further information.

#### Systemwide Debt Securities

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. 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.

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, 2020, 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 Investors 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.

AgFirst's year-to-date average balance of Systemwide Debt Securities at December 31, 2019, was \$30.921 billion. At December 31, 2019, AgFirst had \$31.724 billion in total System debt outstanding compared to \$30.382 billion at December 31, 2018 and \$29.763 billion at December 31, 2017. Total interest-bearing liabilities increased primarily due to additional funding needs related to a higher level of loans as discussed elsewhere in this report.

AgFirst's recorded liability for outstanding Systemwide Debt Securities as of December 31, 2019 is shown in the following table:

				December 3	1, 2019				
	Bonds			Discount	Notes	Total			
Maturities		Amortized Cost	Weighted Average Interest Rate	Amortized Cost	Weighted Average Interest Rate		Amortized Cost	Weighted Average Interest Rate	
				(dollars in thou	isands)				
2020	\$	7,643,298	1.79%	\$ 4,432,488	2.07%	\$	12,075,786	1.89%	
2021		6,517,949	1.79	_	_		6,517,949	1.79	
2022		3,409,162	1.88	_	_		3,409,162	1.88	
2023		2,171,002	2.03	_	_		2,171,002	2.03	
2024		1,881,932	2.05	_	_		1,881,932	2.05	
2025 and after		5,667,936	2.51	_	-		5,667,936	2.51	
Total	\$	27,291,279	1.99%	\$ 4,432,488	2.07%	\$	31,723,767	2.00%	

Refer to Note 6, *Debt*, in the Notes to the Financial Statements, for additional information related to debt.

#### **Operational Risk Management**

Operational risk is the risk of loss resulting from inadequate or failed processes or systems, human factors or external events, including the execution of unauthorized transactions by employees, errors relating to transaction processing and technology, breaches of the internal control system and the risk of fraud by employees or persons outside the System. AgFirst's and the Associations' boards of directors are required, by regulation, to adopt internal control policies that provide adequate direction to their respective institutions in establishing effective controls over and accountability for operations, programs, and resources. The policies must include, at a minimum, the following items:

- direction to management that assigns responsibility for the internal control function to an officer of the institution,
- adoption of internal audit and control procedures,
- direction for the operation of a program to review and assess an institution's assets,
- adoption of loan, loan-related assets and appraisal review standards, including standards for scope of review selection and standards for work papers and supporting documentation,
- adoption of asset quality classification standards,
- adoption of standards for assessing credit administration, including the appraisal of collateral, and
- adoption of standards for the training required to initiate a program.

In addition, AgFirst has implemented a Risk Management Policy to ensure that business exposures to risk are identified, measured and controlled, using the most effective and efficient methods to mitigate such exposures. AgFirst's risk management structure was designed to ensure that an effective enterprise-wide risk management program is in place. Exposure to operational risk is typically identified with the assistance of senior management, and internal audit plans are

developed with higher risk areas receiving more attention. AgFirst's operations rely on the secure processing, transmission and storage of confidential information in its computer systems and networks. Although AgFirst believes that it has robust information security procedures and controls, its technologies, systems, networks and customers' devices may be the target of cyber-attacks or information security breaches. Failure in or breach of AgFirst's operational or security systems or infrastructure, or those of its third-party vendors and other service providers, including as a result of cyber-attacks, could disrupt AgFirst's businesses or the businesses of its customers, result in the unintended disclosure or misuse of confidential or proprietary information, damage the Bank's reputation, increase costs, and cause losses.

No control system, no matter how well designed and operated, can provide absolute assurance that the objectives of the control systems are met. Also, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud or errors can be detected. These inherent limitations include, but are not limited to, the realities that judgments in decision-making can be faulty and breakdowns can occur because of simple error or mistake. Additionally, controls can be circumvented by individual acts of some persons, collusion of two or more people, or management override of the control. The design of any system of controls also is based in part on certain assumptions about the likelihood of future events and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Over time, controls may be inadequate because of changes in conditions, or compliance with policies or procedures may deteriorate.

#### Reputational Risk Management

Reputation risk is defined as the negative impact resulting from events, real or perceived, that shape the image of the Bank, System or any of its entities. Such risks include impacts related to investors' perceptions about agriculture, the reliability of the Bank, System, or other System institution financial information or actions by the Bank or any other

System institution. Entities that serve the System at the national level, including the Coordinating Committee, the Presidents' Planning Committee and The Farm Credit Council, will communicate guidance to the System for reputational issues that have broader consequences for the System as a whole. These entities support those business and other practices that are consistent with the Bank's mission.

#### Political Risk Management

Political risk to the System is the risk of loss of support for the System or agriculture by the U.S. government. System institutions are instrumentalities of the federal government and are intended to further governmental policy concerning the extension of credit to or for the benefit of agriculture and rural America. The System and its borrowers may be significantly affected by federal legislation that impacts the System directly, such as changes to the Farm Credit Act of 1971, as amended (the Farm Credit Act), or indirectly, such as agricultural appropriations bills. However, government programs account for a relatively small percentage of net farm income in the territory served by the District Associations.

The District addresses political risk by actively supporting The Farm Credit Council, which is a full-service trade association representing the System before Congress, the Executive Branch, and others. The Farm Credit Council provides the mechanism for "grassroots" involvement in the development of System positions and policies with respect to federal legislation and government actions that impact the System. Additionally, the District takes an active role in representing the individual interests of System institutions and their borrowers before Congress. Each district has its own Council, which is a member of The Farm Credit Council. The district Councils represent the interests of their members on a local and state level, as well as on a federal level.

#### RESULTS OF OPERATIONS

Net Income

AgFirst net income totaled \$271.7 million for the year ended December 31, 2019, a decrease of \$34.3 million from 2018. Net income of \$306.0 million for the year ended December 31, 2018 was a decrease of \$38.8 million from 2017. Major components of the changes in net income for the referenced periods are outlined in the following table and discussion:

Change in Net Income	Year Ended December 31,					
(dollars in thousands)		2019		2018		
Net income (for prior year)	\$	305,988	\$	344,749		
Increase (decrease) due to:						
Total interest income		108,690		150,141		
Total interest expense		(111,195)		(187,041)		
Net interest income		(2,505)		(36,900)		
Provision for loan losses		4,477		(4,093)		
Noninterest income		(31,458)		13,101		
Noninterest expense		(4,821)		(10,869)		
Total increase (decrease) in net income		(34,307)		(38,761)		
Net income	\$	271,681	\$	305,988		

Key Results of Operations Comparisons

Key results of operations comparisons for years ended December 31 are shown in the following table:

	For the Year Ended December 31,						
Key Results of Operations Comparisons	2019	2018	2017				
Return on average assets	0.81%	0.95%	1.09%				
Return on average shareholders' equity	11.14%	13.03%	14.36%				
Net interest income as a percentage							
of average earning assets	1.23%	1.29%	1.44%				
Operating expense as a percentage of							
net interest income and noninterest income	34.36%	30.61%	26.72%				
Net (charge-offs) recoveries to average loans	0.00%	0.00%	0.00%				

For 2019, a decline in noninterest income compared to the prior year, as discussed below, was the primary reason for the decreases in return on average assets and return on average shareholders' equity. The lower net interest income as a percentage of average earning assets in both 2019 and 2018 resulted primarily from debt costs returning to a more normalized level following a period in which debt costs were enhanced by calling debt in a falling interest rate environment. For 2018 compared to 2017, lower net interest income was also the primary driver of the decreases in return on average assets and return on average shareholders' equity.

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 by the decline in noninterest income in 2019 and the decline in net interest income in 2018

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.

#### Interest Income

Total interest income for the year ended December 31, 2019 was \$1.119 billion, an increase of \$108.7 million, as compared to the same period of 2018. Total interest income for 2018 was \$1.011 billion, an increase of \$150.1 million, as compared to the same period of 2017. The increases in interest income in 2019 and 2018 resulted primarily from higher yields on interest earning assets. The average yield on interest earning assets increased 19 basis points from 2018 to 2019 and 42 basis points from 2017 to 2018.

The following table illustrates the impact of volume and yield changes on interest income:

Net Change in Interest Income	Year Ended December 31,			
(dollars in thousands)		2019-2018		2018-2017
Current year increase (decrease) in average earning assets	\$	1,417,390	\$	651,374
Prior year average yield		3.19%		2.77%
Interest income variance attributed to change in volume		45,219		18,065
Current year average earning assets		33,098,091		31,680,701
Current year increase (decrease) in average yield		0.19%		0.42%
Interest income variance attributed to change in yield		63,471		132,076
Net change in interest income	\$	108,690	\$	150,141

#### Interest Expense

Total interest expense for the year ended December 31, 2019 was \$711.7 million, an increase of \$111.2 million, as compared to the same period of 2018. Total interest expense for the year ended December 31, 2018 was \$600.5 million, an increase of \$187.0 million, as compared to the same period of 2017. The increases in both 2019 and 2018 were primarily due to higher rates paid on System debt obligations.

The following table illustrates the impact of volume and rate changes on interest expense:

Net Change in Interest Expense	•			nber 31,
(dollars in thousands)	2019-2018 201			2018-2017
Current year increase (decrease) in average interest-bearing liabilities	\$	1,264,205	\$	656,762
Prior year average rate		2.03%		1.43%
Interest expense variance attributed to change in volume		25,600		9,365
Current year average interest-bearing liabilities		30,920,627		29,656,422
Current year increase (decrease) in average rate		0.27%		0.60%
Interest expense variance attributed to change in rate		85,595		177,676
Net change in interest expense	\$	111,195	\$	187,041

#### Net Interest Income

Net interest income decreased both from 2018 to 2019 and 2017 to 2018, as illustrated by the following table:

				AgFirst Analys	sis of Net Interest	Income		
				Year Er	ded December 31	l <b>,</b>		
(dollars in thousands)	2019				2018		2017	
	Avg. Balance	Interest	Avg. Yield	Avg. Balance	Interest	Avg. Yield		Avg. 'ield
Loans	\$ 24,484,009	9 \$ 895,560	3.66%	\$ 23,398,66	8 \$ 813,109	3.48%	\$ 22,776,555 \$ 710,835 3	.12%
Investments	8,386,357	7 218,826	2.61	8,240,53	8 196,553	2.39	8,252,772 149,737 1	.81
Other	227,725	5 5,017	2.20	41,49	5 1,051	2.53		
Total earning assets	33,098,09	1,119,403	3.38	31,680,70	1 1,010,713	3.19	31,029,327 860,572 2	2.77
Interest-bearing liabilities	30,920,627	7 (711,741)	2.30	29,656,42	2 (600,546)	2.03	28,999,660 (413,505) 1	.43
Spread			1.08			1.16	1	.34
Impact of capital	\$ 2,177,464	4	0.15	\$ 2,024,27	9	0.13	\$ 2,029,667	0.10
Net Interest Income (NII) & NII to average earning assets		\$ 407,662	1.23%		\$ 410,167	1.29%	\$ 447,067 1	.44%

Net interest income for the year ended December 31, 2019 was \$407.7 million compared to \$410.2 million for the same period of 2018, a decrease of \$2.5 million or 0.61 percent. The net interest margin, which is net interest income as a percentage of average earning assets, was 1.23 percent and 1.29 percent in the current year and previous year, respectively, a decrease of six basis points. The decline in the net interest margin resulted primarily from higher rates paid on interest-bearing liabilities.

The Bank called debt totaling \$18.005 billion and \$2.297 billion for the years ended December 31, 2019 and 2017, respectively, and was able to lower the cost of funds. No debt was called during the year ended December 31, 2018. The Bank called substantial volumes of debt prior to 2017 which enhanced net interest margin significantly. Over time, net interest margin has naturally decreased as assets have repriced.

#### Provision for Loan Losses

AgFirst measures risks inherent in its 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 reversal of \$935 thousand, a net expense of \$3.5 million, and a net reversal or \$551 thousand for the years ended December 31, 2019, 2018, and 2017, respectively.

The \$935 thousand in net provision reversal for the year ended December 31, 2019 consisted of \$4.4 million of net provision reversals for specific reserves, offset by \$3.5 million of net provision expense for general reserves. Provision for loan losses for 2019 primarily resulted from reversals in the field crops segment totaling \$2.7 million, mainly related to one loan relationship that transferred to nonaccrual in 2018, partially offset by provision expenses related to borrowers in the processing (\$583 thousand) and forestry (\$526 thousand) segments.

The \$3.5 million in net provision expense for the year ended December 31, 2018 consisted of \$4.0 million of net provision expense for specific reserves, offset by \$430 thousand of net provision reversals for general reserves. Provision for loan losses for 2018 primarily resulted from expense in the field crops segment of \$3.1 million, predominantly driven by expense related to one loan relationship transferred to nonaccrual in 2018, and \$1.1 million in the rural home loan segment.

The \$551 thousand in net provision reversals for the year ended December 31, 2017 consisted of \$787 thousand of net provision reversals for general reserves, offset by \$236 thousand of provision expense for specific reserves. Total net provision reversals for 2017 primarily related to borrowers in the utilities (\$1.1 million), forestry (\$646 thousand), and tree fruits and nuts (\$303 thousand) segments, partially offset by provision expense in the rural home loan (\$1.4 million) and field crops (\$712 thousand) segments.

See the *Allowance for Loan Losses* section above and Note 3, *Loans and Allowance for Loan Losses*, in the Notes to the Financial Statements for further information.

#### Noninterest Income

Noninterest income for each of the three years ended December 31 is shown in the following table:

						Increase/(Decrease)			
Noninterest Income	For the	Year	Ended Dec	embe	r 31,		2019/		2018/
(dollars in thousands)	2019		2018		2017		2018		2017
Loan fees	\$ 8,710	\$	8,894	\$	8,595	\$	(184)	\$	299
Building lease income	4,079		3,287		3,543		792		(256)
Gains (losses) on investments, net	-		13		(258)		(13)		271
Gains (losses) on debt extinguishment	(30,034)		150		(4,528)		(30,184)		4,678
Gains (losses) on other transactions	1,281		1,462		1,802		(181)		(340)
Insurance premium refund	2,620		6,330		_		(3,710)		6,330
Other noninterest income	18,362		16,340		14,221		2,022		2,119
Total noninterest income	\$ 5,018	\$	36,476	\$	23,375	\$	(31,458)	\$	13,101

Total noninterest income decreased \$31.5 million from 2018 to 2019 and increased \$13.1 million from 2017 to 2018. Significant line item dollar variances are discussed below.

For the year ended December 31, 2019, building lease income increased \$792 thousand primarily due to higher lease income from tenants in the Bank's headquarters building.

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 \$30.2 million and decreased \$4.7 million for the years ended December 31, 2019 and 2018, respectively. Call options were exercised on bonds totaling \$18.005 billion in 2019 and \$2.297 billion in 2017. No bonds were called in 2018. During 2018, in order to improve its repricing and maturity gap position, the Bank extinguished discount notes totaling \$450 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 over the life of the replacement debt.

During 2019 and 2018, the Bank received \$2.6 million and \$6.3 million, 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 exceeding the secure base amount as defined by the Farm Credit Act.

For the years ended December 31, 2019 and 2018, other noninterest income increased \$2.0 million and \$2.1 million, respectively. The increase in 2019 resulted primarily from an increase of \$1.8 million in patronage received from other Farm Credit institutions. The increase in 2018 resulted primarily from an increase of \$1.2 million in income from services provided to Farm Credit entities outside the AgFirst District and an increase of \$844 thousand in patronage received from other Farm Credit institutions.

#### Noninterest Expenses

Noninterest expenses for each of the three years ended December 31 are shown in the following table:

							Increas	e/(Decrease)		
Noninterest Expenses	 For the Year Ended December 31,						2019/	2018/		
(dollars in thousands)	2019		2018		2017		2018		2017	
Salaries and employee benefits	\$ 65,405	\$	63,546	\$	58,282	\$	1,859	\$	5,264	
Occupancy and equipment	24,570		22,597		22,834		1,973		(237)	
Insurance Fund premiums	9,104		8,265		13,868		839		(5,603)	
Other operating expenses	42,705		42,289		30,698		416		11,591	
Losses (gains) from other property owned	150		416		562		(266)		(146)	
Total noninterest expenses	\$ 141,934	\$	137,113	\$	126,244	\$	4,821	\$	10,869	
(E)	\$	\$		\$		\$	( )	\$		

Total noninterest expenses increased \$4.8 million and \$10.9 million in 2019 and 2018, respectively. Significant line item dollar variances are discussed below.

Salaries and employee benefits expenses increased \$1.9 million and \$5.3 million for the years ended December 31, 2019 and 2018. The increases resulted primarily from \$2.6 million and \$3.5 million for 2019 and 2018, respectively, in higher salaries and incentives due to normal salary administration. An increase in headcount also impacted the increase in 2018. The increase in 2019 was partially offset by a decrease of \$1.1 million in postretirement benefits expenses due mainly to lower pension service costs. In 2018, increases of \$893 thousand in postretirement benefit expenses due mainly to higher pension service costs and \$474 thousand in group health insurance due primarily to an additional premium holiday in 2017 compared to 2018 also contributed to the increase.

Occupancy and equipment expenses increased \$2.0 million for the year ended December 31, 2019 compared to the same period in the prior year. This increase resulted primarily from higher maintenance and lease costs.

Insurance Fund premiums increased \$839 thousand and decreased \$5.6 million for the years ended December 31, 2019 and 2018, respectively, compared to the prior years. The increase in 2019 resulted primarily from higher average debt balances in the 2019 period. The decrease in 2018 was primarily due to a decrease in the base annual premium rate. The base annual premium rate was 9 basis points in both 2019 and 2018, and 15 basis points in 2017. The FCSIC Board makes premium rate adjustments, as necessary, to maintain the secure base amount which is based upon insured debt outstanding at System banks. The Insurance Fund premium rate decreased to 8 basis points for at least the first half of 2020.

Other operating expenses increased \$11.6 million in 2018 compared to 2017. This increase resulted primarily from an \$8.1 million reduction in other operating expenses in 2017 due to a change in the method of recording expenses at participating District entities for the multiemployer pension and postretirement benefits plans in which the Bank participates. Prior to 2017, expense was recorded based on allocations of actuarially-determined costs and any differences between recorded expense and actual contributions were recorded in Other Assets or Other Liabilities on the Balance Sheets. For 2017 and future years, participating entities will record postretirement benefit costs

based on the actual contributions to the plans. This change caused the Bank to modify its accounting estimates recorded in Other Assets and Other Liabilities since the assets and liabilities do not impact future contributions to the plans. The change in estimate resulted in the reduction of Other Assets by \$9.1 million and the reduction of Other Liabilities by \$17.2 million on the Bank's Balance Sheets, and a total reduction of other operating expenses on the Bank's Statements of Income of \$8.1 million during 2017.

Excluding the \$8.1 million variance in other operating expenses discussed above, other operating expenses would have increased \$3.5 million in 2018. This increase was primarily due to a \$3.1 million increase in consultant and professional fees predominantly related to technology initiatives.

#### CAPITAL

Capital serves to support future asset growth, investment in new products and services, and to provide protection against credit, interest rate, and other risks, as well as operating losses. A sound capital position is critical to provide protection to investors in Systemwide Debt Securities and to ensure long-term financial success.

The AgFirst Capitalization Plan (the "Plan") approved by the Bank's Board of Directors establishes guidelines to ensure that adequate capital is maintained for continued financial viability, to provide for growth necessary to meet the needs of members/borrowers, and to ensure that all stockholders are treated equitably. The Bank's capital objectives are considered adequate to support inherent risk. There were no significant changes to the Plan during 2019. See *Regulatory Matters* section below for further discussion.

Total shareholders' equity at December 31, 2019 was \$2.331 billion, compared to \$2.224 billion and \$2.243 billion at December 31, 2018 and 2017, respectively. The increase in 2019 of \$107.1 million primarily resulted from an increase in retained earnings from net income of \$271.7 million and from a decrease in unrealized losses on

investments of \$101.8 million, partially offset by cash patronage declared of \$266.9 million. The decrease in 2018 of \$19.1 million primarily resulted from an increase in unrealized losses on investments of \$29.4 million, partially offset by an increase in retained earnings from net income of \$306.0 million, net of cash patronage declared of \$298.2 million.

The Bank's patronage declared in 2019, 2018, and 2017 was based on paying Associations and OFIs a dividend equal to 75 basis points relative to their average Direct Note balance, paying Associations and OFIs a dividend equal to 75 basis points relative to their patronage-based Capital Markets participations, and paying a dividend to participants in Association capitalized participation pools in an amount of 100 percent of pool net income. Also, favorable earnings, strong credit quality and modest balance sheet growth in recent years have resulted in stronger than historical Bank capital levels. After considering current capital levels and projected capital needs, during 2019, 2018, and 2017, the Bank's Board of Directors declared additional patronage totaling \$104.0 million, \$142.0 million and \$160.0 million, respectively. Patronage is paid in the year following declaration.

The Associations are required to maintain ownership in the Bank in the form of Class B and Class C stock. At December 31, 2019, 2018, and 2017, the Associations' minimum stock requirement was 7.00 percent of risk-adjusted Association Direct Note balances. A stock equalization computation is made annually. OFIs are required to capitalize their loans at the same level as District Associations. The Bank's capital stock and participation certificates totaled \$325.3 million at December 31, 2019, compared to \$317.8 million and \$313.8 million at December 31, 2018 and 2017, respectively. The net increases of \$7.4 million and \$4.1 million in 2019 and 2018, respectively, were due to the issuance of stock to Associations as a result of higher Direct Note balances and the issuance of stock patronage to another System bank.

See Note 7, *Shareholders' Equity*, in the Notes to the Financial Statements for further information.

#### Regulatory Ratios

The Bank's regulatory ratios (calculated using a three-month average daily balance) are shown in the following table:

	Minimum,	AgFirst Ra	ember 31,	
	Including Buffer* 7.00% 7.00% 8.50%	2019	2018	2017
Permanent Capital Ratio	7.00%	19.32%	21.67%	22.21%
Common Equity Tier 1 (CET1) Capital Ratio	7.00%	18.90%	21.20%	21.73%
Tier 1 Capital Ratio	8.50%	19.29%	21.64%	22.18%
Total Regulatory Capital Ratio	10.50%	19.45%	21.79%	22.31%
Tier 1 Leverage Ratio	5.00%	7.10%	7.53%	7.67%
Unallocated Retained Earnings (URE) and URE Equivalents Leverage Ratio	1.50%	6.17%	6.58%	6.72%

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The FCA sets minimum regulatory capital adequacy requirements for System banks and associations. Effective January 1, 2017, these requirements were modified to make System regulatory requirements more transparent and to ensure that the System's capital requirements are comparable with the Basel III framework and the standardized approach of federal banking regulatory agencies. The requirements are based on regulatory ratios as defined by the FCA and include common equity tier 1 (CET1) capital, tier 1 capital, total capital, tier 1 leverage, and unallocated retained earnings (URE) and URE equivalents leverage ratios. The permanent capital ratio remains in effect under the Farm Credit Act with minor modifications to risk-adjusted assets.

The permanent capital, CET1, tier 1, and total capital ratios are calculated by dividing the three-month average daily balance of the capital numerator, as defined by the FCA, by a risk-adjusted asset base. Unlike these ratios, the tier 1 leverage, URE and URE equivalents, and collateral ratios do not incorporate any risk-adjusted weighting of assets. Risk-adjusted assets refer to the total dollar amount of the

institution's assets adjusted by an appropriate credit conversion factor as defined by regulation. Generally, higher credit conversion factors are applied to assets with more inherent risk. The tier 1 leverage and URE and URE equivalents leverage ratios are calculated by dividing the three-month average daily balance of the capital numerator, as defined by the FCA, by the three-month average daily balance of total assets adjusted for regulatory deductions.

For all periods presented, AgFirst exceeded minimum regulatory standards for all of the ratios. At December 31, 2019, all of the Bank's ratios declined compared to December 31, 2018 primarily due to higher average risk-weighted asset and total asset levels in the 2019 period.

See *Regulatory Matters* section below and Note 7, *Shareholders' Equity*, in the Notes to the Financial Statements for additional information regarding regulatory capitalization requirements and restrictions.

<sup>\*</sup> Includes fully phased-in capital conservation buffers which are effective as of January 1, 2020.

### THE DISTRICTWIDE YOUNG, BEGINNING, AND SMALL (YBS) FARMERS AND RANCHERS PROGRAM

The District is committed to providing sound and dependable credit to young, beginning, and small (YBS) farmers and ranchers. Because of the unique needs of these individuals, and their importance to the future growth of the Associations, the Associations have established annual marketing goals to increase market shares of loans to YBS farmers. Specific marketing plans have been developed to target these groups, and resources have been designated to help ensure YBS borrowers' access to a stable source of credit. AgFirst and the District Associations recognize that YBS farmers are vitally important to the future of agriculture and are committed to continue offering programs to help educate, assist, and provide quality financial services to YBS farmers.

The FCA regulatory definitions for YBS farmers and ranchers are as follows:

**Young Farmer** — A farmer, rancher, or producer or harvester of aquatic products who was age 35 or younger as of the date the loan was originally made.

**Beginning Farmer** — A farmer, rancher, or producer or harvester of aquatic products who had 10 years or less farming or ranching experience as of the date the loan was originally made.

**Small Farmer** — A farmer, rancher, or producer or harvester of aquatic products who normally generated less than \$250 thousand in annual gross sales of agricultural or aquatic products at the date the loan was originally made.

It is important to note that, due to the regulatory definitions, a farmer/rancher may be included in multiple categories as he/she would be included in each category in which the definition was met.

The following table summarizes information regarding the combined District's loans outstanding to Young and Beginning Farmers and Ranchers as of December 31, 2019:

#### Young and Beginning Farmers and Ranchers Number/Volume of Loans Outstanding

(dollars in thousands)

Category	Number of Loans	Percent of Total	(	Volume Outstanding	Percent of Total
1. Total loans and commitments outstanding at year-end	157,541		\$	32,354,742	
2. Young farmers and ranchers	29,351	18.63%	\$	3,537,862	10.93%
3. Beginning farmers and ranchers	47,491	30.15%	\$	5,880,406	18.17%

The following table summarizes information regarding the combined District's loans outstanding to Small Farmers and Ranchers as of December 31, 2019:

#### Small Farmers and Ranchers Number/Volume of Loans Outstanding by Loan Size

(dollars in thousands)

		\$0-	\$50,001-	\$	100,001-	\$250,001
Number/Volume Outstanding		\$50,000	 \$100,000	9	250,000	and greater
1. Total number of loans and commitments outstanding at year-end		76,956	28,000		29,311	23,274
2. Total number of loans to small farmers and ranchers		53,330	16,901		15,357	6,837
3. Number of loans to small farmers and ranchers as a % of total number of loans		69.30%	60.36%		52.39%	29.38%
Total loan volume outstanding at year-end	\$	1,526,551	\$ 2,023,421	\$	4,640,960	\$ 24,163,810
<ol><li>Total loan volume to small farmers and ranchers</li></ol>	\$	1,044,796	\$ 1,213,296	\$	2,388,791	\$ 3,388,767
6. Loan volume to small farmers and ranchers as a % of total loan volume		68.44%	59.96%		51.47%	14.02%

The following table summarizes information regarding the combined District's new loans made to Young and Beginning Farmers and Ranchers for the year ended December 31, 2019:

#### Young and Beginning Farmers and Ranchers Gross New Business During 2019, Number/Volume of Loans

(dollars in thousands)

Category	Number of Loans	Percent of Total	Volume Outstanding	Percent of Total
1. Total gross new loans and commitments made during 2019	47,943		\$ 14,983,972	
2. Total loans and commitments made during 2019 to young farmers and ranchers	9,352	19.51%	\$ 1,513,566	10.10%
3. Total loans and commitments made during 2019 to beginning farmers and ranchers	14,125	29.46%	\$ 2,333,673	15.57%

The following table summarizes information regarding the combined District's new loans made to Small Farmers and Ranchers for the year ended December 31, 2019:

#### Small Farmers and Ranchers Gross New Business by Loan Size, Number/Volume of Loans

(dollars in thousands)

		\$0-	\$50,001 -	\$100,001-	\$250,001
Number/Volume		\$50,000	\$100,000	\$250,000	and greater
1. Total number of new loans and commitments made during 2019		20,372	8,414	9,291	9,866
2. Total number of loans made to small farmers and ranchers during 2019		14,896	4,964	4,627	2,641
3. Number of loans to small farmers and ranchers as a % of total number of loans		73.12%	59.00%	49.80%	26.77%
4. Total gross loan volume of all new loans and commitments made during 2019	\$	483,282	\$ 627,141	\$ 1,520,195	\$ 12,353,354
5. Total gross loan volume to small farmers and ranchers		336,923	\$ 363,777	\$ 731,357	\$ 1,451,760
6. Loan volume to small farmers and ranchers as a % of total gross new loan volume		69 72%	58.01%	48 11%	11.75%

#### COMMITMENTS AND CONTINGENCIES

On the basis of information presently available, management and legal counsel are of the opinion that the ultimate liability, if any, from legal actions pending against AgFirst would be immaterial in relation to the financial position of AgFirst. Refer to Note 11, *Commitments and Contingencies*, in the Notes to the Financial Statements for additional information

#### REGULATORY MATTERS

On February 13, 2020, the Farm Credit Administration approved a rule that clarifies the factors that System institutions should consider when categorizing high-risk loans and placing them in nonaccrual status. The rule also revises the criteria by which loans are reinstated to accrual status, and revises 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.

On September 18, 2019, the Farm Credit Administration issued a proposed rule to amend its investment regulations to allow System associations to purchase and hold the portion of certain loans that non-System lenders originate and sell in the secondary market, and that the USDA unconditionally guarantees or insures as to timely payment of principal and interest. The rule would authorize associations to buy

investments to augment the liquidity of rural credit markets, reduce the capital burden on community banks and other non-System lenders who choose to sell their USDA guaranteed portions of loans, and to enhance the ability of associations to manage risk. The public comment period ended on November 18, 2019.

On September 23, 2019, the Farm Credit Administration issued a proposed rule that would ensure the System's capital requirements, including certain regulatory disclosures, reflect the current expected credit losses methodology, which revises the accounting for credit losses under U.S. generally accepted accounting principles. The proposed rule identifies which credit loss allowances under the Current Expected Credit Losses (CECL) methodology in the Financial Accounting Standards Board's "Measurement of Credit Losses on Financial Instruments" are eligible for inclusion in a System institution's regulatory capital. Credit loss allowances related to loans, lessor's net investments in leases, and held-to-maturity debt securities would be included in a System institution's Tier 2 capital up to 1.25 percent of the System institution's total risk weighted assets. Credit loss allowances for available-for-sale debt securities and purchased credit impaired assets would not be eligible for inclusion in a System institution's Tier 2 capital. In addition, the proposed regulation does not include a transition phase-in period for the CECL day 1 cumulative effect adjustment to retained earnings on a System institution's regulatory capital ratios. The public comment period ended on November 22, 2019.

#### RECENTLY ISSUED ACCOUNTING PRONOUNCEMENTS

Please refer to Note 2, Summary of Significant Accounting Policies, in the Notes to the Financial Statements for a comprehensive listing of recently issued accounting pronouncements.

The following Accounting Standards Update (ASU) was issued by the Financial Accounting Standards Board (FASB):

#### **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 Implementation efforts began with establishing a cross-discipline framework for financial assets to reflect management's estimate of current governance structure at the Bank utilizing common guidance developed expected credit losses (CECL) over the complete remaining life of the across the Farm Credit System. The implementation includes financial assets. identification of key interpretive issues, scoping of financial instruments, Changes the present incurred loss impairment guidance for loans to an and assessing existing credit loss forecasting models and processes against expected loss model. the new guidance. The new guidance is expected to result in a change in allowance for credit The Update also modifies the other-than-temporary impairment model for losses due to several factors, including: debt securities to require an allowance for credit impairment instead of a direct write-down, which allows for reversal of credit impairments in The allowance related to loans and commitments will most likely increase to cover credit losses over the full remaining expected life future periods based on improvements in credit. Eliminates existing guidance for purchased credit impaired (PCI) loans, of the portfolio, and will consider expected future changes in and requires recognition of an allowance for expected credit losses on macroeconomic conditions An allowance will be established for estimated credit losses on any these financial assets. Requires a cumulative-effect adjustment to retained earnings as of the debt securities The nonaccretable difference on any PCI loans will be recognized beginning of the reporting period of adoption. Effective for fiscal years beginning after December 15, 2022, and interim as an allowance, offset by an increase in the carrying value of the periods within those fiscal years. Early application is permitted. related loans. The extent of change 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 2023.

### Additional Disclosure Required by Farm Credit Administration Regulations

#### **Description of Business**

Descriptions of the territory served, persons eligible to borrow, types of lending activities engaged in, financial services offered and related Farm Credit organizations are incorporated herein by reference to Note 1, *Organization and Operations*, to the Financial Statements included in this Annual Report to shareholders.

The description of significant developments that had or could have a material impact on earnings or interest rates to borrowers, acquisitions or dispositions of material assets, material changes in the manner of conducting the business, seasonal characteristics and concentrations of assets, if any, is incorporated in *Management's Discussion & Analysis of Financial Condition & Results of Operations* included in this Annual Report to shareholders.

Unincorporated Business Entities

The Bank held no equity investment at December 31, 2019 in Unincorporated Business Entities (UBEs).

#### **Description of Property**

The following table sets forth certain information regarding the properties owned by the Bank at December 31, 2019, all of which are located in Columbia, South Carolina:

Location	Description
1115 Calhoun Street	Bank operations facility
1901 Main Street	Bank office building and adjacent parking facility, partially leased to tenants

#### **Legal Proceedings**

Information, if any, to be disclosed in this section is incorporated herein by reference to Note 11, *Commitments and Contingencies*, to the Financial Statements included in this Annual Report to shareholders.

#### **Description of Capital Structure**

Information to be disclosed in this section is incorporated herein by reference to Note 7, Shareholders' Equity, to the Financial Statements included in this Annual Report to shareholders.

#### **Description of Liabilities**

The description of liabilities and contingent liabilities to be disclosed in this section is incorporated herein by reference to Notes 2, 6, 9, 11 and 13 to the Financial Statements included in this Annual Report to shareholders.

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

Management's Discussion & Analysis of Financial Condition & Results of Operations, which appears in this Annual Report to shareholders and is to be disclosed in this section, is incorporated herein by reference.

#### **Senior Officers**

The following represents certain information regarding the directors and senior officers of the Bank.

The chief executive officer and all other senior officers of the Bank, together with their length of service at their present position, as well as positions held currently and during the last five years, are as follows:

Name and Title	Time in Position	Prior Experience	Other Business Interests
Leon T. Amerson, President and Chief Executive Officer	7.5 years		Member on the Executive Council and Business Practices Committee of the Presidents Planning Committee of the Farm Credit System; Member of the Board of Directors of the Federal Farm Credit Banks Funding Corporation and Member of the Governance Committee; Member of the Executive Council of the National Council of Farmer Cooperatives; Member of the Board of Directors for Palmetto Agribusiness Council; Member of the Finance Committee for United Way of the Midlands; Member of the AgFirst Plan Sponsor Committee and the AgFirst/FCBT Plan Sponsor Committee.
Charl L. Butler, Executive Vice President and Chief Operating Officer	2.75 years	Senior Vice President and Chief Financial Officer March 2007 to March 2017	Board Member of the Farm Credit System Captive Insurance Company; Chairman of the AgFirst/FCBT Plan Fiduciary Committee; Member of the Midlands Business Leadership Group.
Isvara M. A. Wilson, Executive Vice President and Chief Administrative Officer	2.75 years	Senior Vice President and General Counsel December 2012 to March 2017	Board Member of the Farm Credit System Captive Insurance Company; Board Member of the Columbia Urban League, Inc.; Board Member of the Columbia Museum of Art; Board Member of the Boys and Girls Club of the Crescent Region.
William E. Brown, Senior Vice President and Chief Credit Officer	2.5 years	Manager, Credit Integration / Commercial Credit Executive at First Citizens Bank and Trust of North Carolina 2014 to 2016	
Stephen F. Ciambrone, Senior Vice President and Chief Information Officer	3 months	Director of Information Technology June 2019 to September 2019, Managing Director at CitiGroup 2008 to 2018	
Stephen Gilbert, Senior Vice President and Chief Financial Officer	2.75 years	Vice President and Controller August 2009 to March 2017	
Frances S. Griggs, Senior Vice President and General Counsel	2.75 years	Vice President and Assistant General Counsel July 2013 to March 2017	Board Member of the Girl Scouts of South Carolina – Mountains to Midlands.
Daniel E. LaFreniere, Senior Vice President and Chief Audit Executive	6.5 years		

The total amount of compensation earned by the Chief Executive Officer (CEO) and the senior officers and other highly compensated employees as a group during the years ended December 31, 2019, 2018 and 2017, is as follows:

Name of					Change in		
Individual or				Deferred	Pension	Perq./	
Number in Group	Year	Salary	Incentives	Comp.	Value (c)	Other*	Total
Leon T. Amerson	2019	\$ 832,032	\$ 795,281	\$ 34,992	\$ 1,573,082	\$ 26,189	\$ 3,261,576
Leon T. Amerson	2018	\$ 800,031	\$ 792,987	\$ 34,833	\$ (124,251)	\$ 24,996	\$ 1,528,596
Leon T. Amerson	2017	\$ 766,029	\$ 838,564	\$ 30,903	\$ 1,061,268	\$ 25,292	\$ 2,722,056
8 Officers (a)(b)	2019	\$ 2,510,788	\$ 1,542,189	\$ 176,721	\$ -	\$ 824,396	\$ 5,054,094
7 Officers	2018	\$ 2,333,198	\$ 1,670,874	\$ 146,751	\$ -	\$ 237,893	\$ 4,388,716
9 Officers (b)	2017	\$ 2,469,284	\$ 2,030,766	\$ 115,011	\$ 213,388	\$ 349,841	\$ 5,178,290

<sup>\*</sup> For all years, includes company contributions to 401(k) plan (see Note 9, Employee Benefit Plans, to the Financial Statements), group life insurance premiums, spousal travel and bank-provided automobile. For 2019, also includes payment to senior officers of accrued annual leave of \$193,185 following adoption of a Senior Management Time-Off Policy, payment to a senior officer who left the Bank in 2019 of \$331,985 for separation pay and certain other compensation / benefits, and payment to a senior officer who joined the Bank in 2019 of \$50,000 for a sign-on payment. For 2017, also includes payment of accrued annual leave of \$73,441, a one-time pension benefits differential payment of \$15,607 and reimbursement of insurance premiums of \$13,783 upon retirement of two senior officers.

<sup>(</sup>a) Disclosure of information on the total compensation paid during 2019 to any senior officer, or to any other individual included in the aggregate, is available to shareholders upon request.

<sup>(</sup>b) For 2019, includes one senior officer who left the Bank during the year. For 2017, includes two senior officers who retired from the Bank during the year.

<sup>(</sup>c) The changes in pension values as reflected in the table above resulted primarily from changes in the actuarial assumptions for discount rate and mortality and an additional year of benefit accrual. See further discussion in Note 9, Employee Benefit Plans, of the Financial Statements.

#### Pension Benefits Table As of December 31, 2019

Name of Individual or Number in Group	Year	Plan Name	Number of Years Credited Service	narial Present Value of ccumulated Benefits	Payn Durin	
CEO: Leon T. Amerson Leon T. Amerson	2019 2019	AgFirst Farm Credit Retirement Plan AgFirst Farm Credit Bank Supplemental Retirement Plan	33.58 33.58	\$ 2,834,676 6,484,560	\$	-
				\$ 9,319,236	\$	-

#### **Executive Incentive Compensation Plan**

In addition to a base salary, certain named senior officers may earn additional compensation under the Bank's Executive Incentive Plan, which has a short-term and a long-term component. Participation in the plan is at the sole discretion of the CEO or in the case of the CEO at the sole discretion of the Board of Directors. The objectives of this plan are to provide a market-competitive financial rewards package to executives, provide incentive for the achievement of the AgFirst shortand long-term business objectives and to provide the Bank the ability to attract and retain key executives. The plan's payments are based upon the Bank's achievement of minimum performance thresholds for capital adequacy, net income sufficient to pay patronage and dividend distributions, achievement of a targeted threshold customer satisfaction score and the senior officers' overall performance achievement as determined by an individual performance rating. Short-term incentive awards are shown in the year earned and payments are made in the first quarter of the following year.

Effective with the 2014 plan year, the long-term component of the plan is subject to forfeiture based upon AgFirst's performance during the three-year performance period immediately following the plan year. Specifically, the long-term award for a particular plan year will be reduced by an amount equal to one-third of the original award for each subsequent year during the three-year performance period in which any one of the performance thresholds is not achieved.

Long-term incentive award amounts are shown in the year accrued and are vested over a period of time composed of the plan year and the performance period subsequent to the end of the plan year. Incentive awards are forfeited if the participant fails to remain employed until the end of the performance period subsequent to the end of the plan year, unless the end of employment is due to the participant's death or disability, or the Board of Directors, in its sole discretion, determines that the participant should be paid all or a portion of the incentive awards.

#### **Retirement and Deferred Compensation Plans**

The Bank's compensation programs include retirement and deferred compensation plans designed to provide income following an employee's retirement. Although retirement benefits are paid following an employee's retirement, the benefits are earned while employed. The objective of the Bank is to offer benefit plans that are market competitive and aligned with the Bank's strategic objectives. The plans are designed to enable the Bank to proactively attract, retain, recognize and reward a highly skilled, motivated and diverse staff that supports the Bank's mission and that allows the Bank to align the human capital needs with the Bank's overall strategic plan.

Employees hired prior to January 1, 2003 participate in the AgFirst Farm Credit Retirement Plan. Employees are eligible to retire and begin drawing unreduced pension benefits at age 65 or when years of credited service plus age equal "85" once age 55 is reached. Upon retirement, annual payout is equal to 2 percent of the highest three years' average compensation times years of credited service, subject to the Internal Revenue Code limitations. For purposes of determining the payout, "average compensation" is defined as regular salary (i.e., does not include incentive awards compensation). At the election of the retiree, benefits are paid based upon various annuity terms or on a lump sum basis. Benefits under the plan are not subject to an offset for Social Security.

Employees hired on or after January 1, 2003, but prior to November 4, 2014, previously participated in the AgFirst Farm Credit Cash Balance Retirement Plan. Benefit accruals in the plan were frozen as of December 31, 2014, at which time active participants were fully vested regardless of years of credited service. The plan was terminated effective as of December 31, 2015, was submitted to the Internal Revenue Service for review and received a favorable determination letter from the Internal Revenue Service. Benefits in the plan were distributed to plan participants during March 2017.

Employees participate in the Farm Credit Benefits Alliance 401(k) Plan, a qualified 401(k) defined contribution plan which has an employer matching contribution determined by the employee's date of hire. Employees hired prior to January 1, 2003 receive a maximum employer matching contribution equal to \$0.50 for each \$1.00 of employee compensation contributed up to 6 percent, subject to the Internal Revenue Code limitation on compensation. Employees hired on or after January 1, 2003 receive a maximum employer matching contribution equal to \$1.00 for each \$1.00 of employee compensation contributed up to 6 percent, subject to the Internal Revenue Code limitation on compensation. As a result of the termination of the AgFirst Farm Credit Cash Balance Retirement Plan, beginning January 1, 2015, employees hired on or after January 1, 2003 also receive an employer nonelective contribution equal to 3 percent of employee compensation, subject to the Internal Revenue Code limitation on compensation.

Senior officers and other highly compensated employees participate in the Farm Credit Benefits Alliance Nonqualified Supplemental 401(k) Plan, a nonqualified deferred compensation plan that allows certain key employees to defer compensation and which restores the benefits limited in the qualified 401(k) plan as a result of restrictions in the Internal Revenue Code. The plan also includes a provision for discretionary contributions to be made by the Bank.

#### **Chief Executive Officer**

Mr. Amerson participates in the AgFirst Farm Credit Retirement Plan, as described above.

Mr. Amerson participates in the AgFirst Farm Credit Bank Supplemental Retirement Plan, a nonqualified supplemental executive retirement plan. Benefits that would have accrued in the qualified defined benefit retirement plan in the absence of Internal Revenue Code limitations are made up through the nonqualified supplemental executive retirement plan. At the election of the retiree, benefits are paid based upon various annuity terms.

Mr. Amerson participates in the Farm Credit Benefits Alliance 401(k) Plan and the Farm Credit Benefits Alliance Nonqualified Supplemental 401(k) Plan, as described above.

#### Senior Officers

Senior officers hired before November 4, 2014 participated in the AgFirst Farm Credit Cash Balance Plan, as described above.

Senior officers participate in the Farm Credit Benefits Alliance 401(k) Plan and the Farm Credit Benefits Alliance Nonqualified Supplemental 401(k) Plan, as described above.

Additionally, senior officers as well as all employees are reimbursed for all direct travel expenses incurred when traveling on Bank business. A

copy of the travel policy is available to shareholders upon written request.

Bank compensation plans are reviewed annually by the Board of Directors' Compensation Committee.

**AgFirst Farm Credit Bank Board of Directors** 

Name	Position	Year Term Expires
Curtis R. Hancock, Jr.	Chairman*	December 31, 2020
Ellis W. Taylor	Vice Chairman*	December 31, 2023**
Gary L. Baldosser	Director	December 31, 2023***
Jack W. Bentley, Jr.	Director	December 31, 2022
Jenny R. Black	Director	December 31, 2023**
Sherry E. Bowden	Director	December 31, 2023***
William J. Franklin, Jr.	Director	December 31, 2021
Bonnie V. Hancock	Director	December 31, 2021
Dale R. Hershey	Director	December 31, 2019
Walter C. Hopkins, Sr.	Director	December 31, 2020
William K. Jackson	Director	December 31, 2020
J. Alvin Lyons	Director	December 31, 2021
S. Alan Marsh	Director	December 31, 2021
Fred R. Moore, Jr.	Director	December 31, 2021
James M. Norsworthy, III	Director	December 31, 2019
Katherine A. Pace	Director	December 31, 2019
Michael W. Patrick	Director	December 31, 2023***
Thomas E. Porter, Jr.	Director	December 31, 2022
William T. Robinson	Director	December 31, 2023**
Michael T. Stone	Director*	December 31, 2022

- \* Effective January 1, 2020, Ellis W. Taylor became Chairman and Michael T. Stone became Vice Chairman.
- \*\* Re-elected to a 4-year term commencing January 1, 2020.
- \*\*\* Newly elected/appointed in 2019 to a 4-year term commencing January 1, 2020.

Curtis R. Hancock, Jr., 73, Chairman of the Board, is from Fulton, Kentucky and is owner and operator of Hancock Farms. His operations consist of row crops including corn, wheat and soybeans. He serves on the board of The Farm Credit Council, a trade organization; and Kentucky Small Grain Growers, a grain cooperative, and is a member of River Valley, ACA. Mr. Hancock received a Bachelor of Science in Agriculture from the University of Tennessee-Martin and a Master of Science in Agricultural Economics from the University of Tennessee. As Chairman of the Board for 2019, he served as chair of the Board Coordinating Committee and as an ex-officio member of all Board Committees. Mr. Hancock will serve on the Board Governance and the Board Compensation Committees in 2020.

Ellis W. Taylor, 50, Vice Chairman of the Board, from Roanoke Rapids, North Carolina, is the owner/operator of a row crop operation, Mush Island Farms, LLC, which consists of cotton, soybeans, wheat, corn and timber. He is also part owner of Roanoke Cotton Company, LLC, which operates cotton gins and a warehouse. He is a director on the boards of AgCarolina Farm Credit, ACA, and Northampton County Farm Bureau, which promotes agriculture, and the Federal Farm Credit Banks Funding Corporation. Mr. Taylor has a Bachelor of Science in Agronomy, a Bachelor of Science in Agricultural Business Management and a Master of Economics from North Carolina State University. Mr. Taylor served on the Board Coordinating, the Board Compensation and Board Governance Committees in 2019. He was elected Chairman of the Board for 2020 and will serve as chair of the Board Coordinating Committee and as an ex-officio member of all Board Committees.

Gary L. Baldosser, 53, from Republic, Ohio, owns and operates Baldosser Farms, Inc., a cow/calf and row crop operation and Garbec Farms. Mr. Baldosser is the Vice Chairman for the board of directors of AgCredit, ACA. Mr. Baldosser also serves on the board of Sunrise Co-Op Clyde Condominium Association, a condominium grain storage association. He also serves as a trustee for Tri-Grain, LLC, a family land holding entity; and ember of Bloc-B, LLC, a family land holding entity; and a member of Garbec Farms, LLC, a family land holding entity. Mr. Baldosser received a Bachelor of Science in Ag Economics from The Ohio State University. Mr. Baldosser became a director in 2020, and will serve on the Board Audit Committee.

Jack W. Bentley, Jr., 62, from Tignall, Georgia, owns and operates A&J Dairy, a dairy, pasture, crop and timberland operation. Mr. Bentley is a

director of AgGeorgia Farm Credit, ACA. Mr. Bentley also serves on the boards of the following agricultural and dairy trade and promotion organizations: USDA Farm Service Agency, Southeast United Dairy Industry Association, American Dairy Association, Lone Star Milk Producers and the Wilkes County Farm Bureau. Mr. Bentley has a Bachelor of Science in Ag Mechanics and Business from Clemson University. Mr. Bentley serves on the AgFirst Plan Sponsor Committee and the Board Audit Committee.

Jenny R. Black, 45, from Lakeland, Florida, is a Certified Project Manager and owns and operates Jenny Black Consulting, LLC, an information technology consulting company. Ms. Black also serves as the manager for the following citrus and agricultural operations: Ridge Investments, LLC, Black & Myers Properties, and BHB Holdings, LLC. She is a director of Farm Credit of Central Florida, ACA and serves on the board of The Farm Credit Council, a trade organization. She also serves as a director for the Polk County Florida 4-H Foundation Board, a youth agricultural organization, the Volunteers in Service to the Elderly Advisory Board, a non-profit whose mission is to assist the elderly with independent living, and All Saints Academy Independent School, an education organization. Ms. Black has Bachelor of Arts degrees in English and Liberal Studies and a Master of Business Administration with a concentration in Information Technology, Finance and Marketing from the University of South Florida. Ms. Black serves on the Board Risk Policy Committee.

Sherry E. Bowden, 58, outside director for the Board, is from Johns Island, South Carolina. Ms. Bowden is a former [retired] CFO at State Street Corporation. She is a certified public accountant and a certified personal property appraiser and is trained in business process improvement as a Six Sigma Green Belt. Ms. Bowden received her Bachelor's degree in Economics from the College of William and Mary. She also earned a Master of International Management in Finance from the American Graduate School of International Management and an MBA from Drury University in a dual degree program. She is a member of the South Carolina Association of CPAs and serves on the Central Region Board of Directors of the Boy Scouts of America. Ms. Bowden was appointed to the board in 2020 and is the board designated financial expert. She will serve on the Board Audit Committee.

William J. Franklin, Jr., 62, from Duffield, Virginia, owns and operates Franklin Farms, a beef cattle and hay farm. Mr. Franklin is also Chief Executive Officer of Scott County Telephone Cooperative, a telecommunications company. He serves on the boards of the Scott County Cattle Association, a trade organization, and the Southwest Virginia Workforce Development Board, which offers re-employment and training programs. Mr. Franklin also serves on the following telecommunications boards: Carolina-Virginia Telephone Membership Association, National Rural Broadband PAC Board, IRIS Networks Board, and LIT Networks Board. He is a member of Farm Credit of the Virginias, ACA. Mr. Franklin has a Bachelor of Science in Ag Education from Virginia Tech. Mr. Franklin serves on the Board Risk Policy Committee.

Bonnie V. Hancock, 58, outside director for the Board, is from Raleigh, North Carolina. Ms. Hancock is Professor of Practice and Executive Director of the Enterprise Risk Management Initiative at North Carolina State University (NCSU) where she teaches courses in financial management, enterprise risk management, and strategy and financial statement analysis. Prior to joining NCSU, she worked with Progress Energy, as senior vice president of finance and information technology and later as president of Progress Fuels, a subsidiary that produced and marketed gas, coal and synthetic fuels, and operated fuel terminals and ash management facilities. Ms. Hancock has a Bachelor of Business Administration with an accounting major from the College of William and Mary and a Master of Science in Taxation from Georgetown University. She is a member of the boards of Powell Industries, designer and manufacturer of electrical equipment systems for industrial facilities, where she serves on the compensation committee; the North Carolina Coastal Pines Girl Scout Council, a leadership development organization for girls, where she serves as board chair; and the National Association of Corporate Directors – Research Triangle Chapter, an organization for the advancement of exemplary board leadership, where she serves as program committee chair. Ms. Hancock serves on the

Board Coordinating Committee and as Chair of the Board Risk Policy Committee.

Dale R. Hershey, 72, is from Manheim, Pennsylvania, where he is a partner in Hershey Brothers Dairy Farms. Mr. Hershey has served as senior partner in the ownership and management of the dairy and cropping enterprises since 1980. He serves on the board of directors of MidAtlantic Farm Credit, ACA, The Farm Credit Council, a trade organization, and Farm Credit Council Services, a service provider. He also serves on the AgAdvisory Committee for his local municipal township and is a member of Pennsylvania Farm Bureau and the National Holstein Association. Mr. Hershey has a Bachelor of Science in Community Development and a Master of Science in Ag Economics and Rural Sociology from Penn State University. Mr. Hershey served on the Board Audit Committee. His term expired December 31, 2019.

Walter C. Hopkins, Sr., 72, from Lewes, Delaware, is the owner and operator of Green Acres Farm, Inc., a dairy and grain farming operation. He also manages Lyons LLC, a land holding company. He serves on the board of directors of MidAtlantic Farm Credit, ACA. Mr. Hopkins has a Bachelor of Science in Agricultural Engineering from the University of Delaware. Mr. Hopkins served on the Board Coordinating Committee and as chair of the Board Governance Committee in 2019. Mr. Hopkins will serve on the Board Compensation and the Board Governance Committees in 2020.

William K. Jackson, 64, from New Salem, Pennsylvania, is a partner in Jackson Farms, a dairy operation with other farming interests, including corn, soybeans, and alfalfa. He is president of Jackson Farms 2, LLC, a small dairy processing facility that produces milk and makes ice cream marketed to area stores and sold via an on-site convenience store. Mr. Jackson is also president of Jackson Farms 3, LLC and Jackson Farms Limited Partnership, which are involved in the production of natural gas. He serves on the boards of AgChoice Farm Credit, ACA; The Farm Credit Council, a trade organization; the Fay Penn Economic Development Council, a local economic development committee; president of the Fayette County Agricultural Improvement Association Board, a local county fair; and the Penn State Fayette, Eberly Campus Advisory Board, which oversees campus community involvement. Mr. Jackson has a Bachelor of Science in Agricultural Business Management from Penn State University. Mr. Jackson served on the Board Audit Committee in 2019 and will serve on the Board Compensation Committee, the Board Coordinating Committee and as chair of the Board Governance Committee in 2020.

J. Alvin Lyons, 62, from Georgetown, Kentucky, is owner and operator of Lyons Family Farms, a farming operation of row crops including corn, soybeans, wheat, and hay. His farm also includes a commercial cow/calf herd and stockers. Mr. Lyons also serves as Magistrate of Scott County Fiscal Court, the legislative body for the county government. Mr. Lyons is a director of Central Kentucky AgCredit, ACA. He represents Central Kentucky on the Independent Associations' Retirement Plan Sponsor Committee and serves as chair. He is a director on the boards of the Scott County Farm Bureau, an agricultural promotion organization, the Scott County Rural Land Management Board, which focuses on land preservation, and the Scott County Beef Improvement Association, which provides beef promotion and education. Mr. Lyons has completed the University of Kentucky Ag Leadership Development and Master Cattleman Programs. Mr. Lyons serves on the Board Audit Committee.

S. Alan Marsh, 65, from Madison, Alabama, is a partner in Marsh Farms, Inc., an operation consisting of row crops including cotton, soybeans, wheat and corn. Mr. Marsh is a director of First South Farm Credit, ACA, and Limestone County Farmers Federation, an agricultural trade organization and he is president and stockholder of South Limestone Coop Gin, a cotton ginning operation and an association borrower. He is also an advisory board member for Staplcotn, a cotton cooperative association. Mr. Marsh received a Business Management Certification from Stratford Career Institute. Mr. Marsh served on both the Board Compensation and Board Governance Committees in 2019 and will serve on the Board Risk Policy Committee in 2020.

Fred R. Moore, Jr., 67, from Eden, Maryland, is president of Fred R. Moore & Son, Inc. d/b/a Collins Wharf Sod, a turf and grain operation, which grows sod (turf), corn, soybeans and wheat. He is also partner of F&E Properties, LLC, a rental business and a partner in F&E Moore Properties, LLC, which is a land holding partnership. He currently serves on the boards of MidAtlantic Farm Credit, ACA, Wicomico Soil Conservation District, an environmental and conservation entity and Wicomico County Farm Bureau, an agricultural promotion organization. He currently serves as an active life member of the Allen Volunteer Fire Company. Mr. Moore has a Bachelor of Science in Agriculture Education from the University of Maryland Eastern Shore. Mr. Moore serves on both the Board Compensation and Board Governance Committees and will serve as chair of the Compensation Committee in 2020. Mr. Moore will also serve on the Board Coordinating Committee in 2020.

James M. Norsworthy, III, 69, from Jackson, Louisiana, runs 100 Cedars Cattle Farm, a cow/calf operation with other farming interests including a commercial hay operation and a pine and hardwood timber operation. He is a member of the board of directors of First South Farm Credit, ACA. Mr. Norsworthy is a member of the board of directors for Centreville Academy, an educational institution, and served as a former mayor of the town of Jackson, Louisiana. Mr. Norsworthy also serves on the local board for Feliciana Farm Bureau, which promotes agriculture. Mr. Norsworthy has a Bachelor of Science in Vocational Agriculture Education from Louisiana State University. He served on the Board Risk Policy Committee. His term expired December 31, 2019

Katherine A. Pace, 58, outside director for the Board, is from Orlando, Florida. Ms. Pace is a certified public accountant and principal of Family Business Consulting, LLC, which provides financial and strategic planning for closely held businesses. In addition to her work through Family Business Consulting, she is the Chief Financial Officer/Treasurer of NASCAR Holdings, Inc., a motorsports business. Ms. Pace also serves as CEO, President, and Chairman of the Board for Trivergent Trust Company, LLC, a trust company. Prior to forming her company, she was a tax partner with KPMG, LLP, from 1985-2005. While at KPMG, her practice included a variety of cooperative and agribusiness clients as well as participation in trade associations such as the National Society of Accountants for Cooperatives. Ms. Pace obtained her Bachelor of Science in Accounting from Furman University. She is a member of the American Institute of Certified Public Accountants and the Florida Institute of Certified Public Accountants and she is a current and past member and director of numerous trade and charitable organizations. Ms. Pace was the board designated financial expert and served on the Board Audit Committee. Her term expired December 31, 2019.

Michael W. Patrick, 54, is from Canton, Mississippi, and he is a partner in Patrick Farms Joint Venture, a cotton, corn, soybean, and timber operation. Mr. Patrick serves on the First South Farm Credit, ACA, board of directors. He serves as a Commissioner for the Madison County Soil and Water Commission and on the Madison County USDA FSA County Committee. Mr. Patrick holds a Bachelor's degree from Mississippi State and a Masters of Business Administration from the University of Mississippi. Mr. Patrick became a director in 2020 and he will serve on the both the Board Compensation and Board Governance Committees in 2020.

Thomas E. Porter, Jr., 66, from Concord, North Carolina, is president of Porter Farms, Inc., a farming operation consisting of a sow farrow unit and a wean swine operation, pullet houses, layer houses and a cow/calf operation. He also manages The Farm at Brush Arbor, LLC, an agritourism business on his farm. He currently serves on the Carolina Farm Credit, ACA, board of directors. Mr. Porter also holds board and leadership positions with the following agricultural trade and promotion organizations: board member on the Cabarrus County Ag advisory board, president of Cabarrus County Farm Bureau, chairman of Cabarrus County Extension Advisory Board, Cabarrus County Soil and Water Conservation District, the Water Committee for the American Farm Bureau, and the Food Innovation Committee. Mr. Porter also serves as a member of the Union Power Cooperative Board and a member of the Three Rivers Land Trust Board. He also serves on the Commissioners

Circle for the North Carolina Commissioner of Agriculture. Mr. Porter serves on the Board Risk Policy Committee.

William T. Robinson, 52, from St. Matthews, South Carolina, is the owner/operator of Robinson Family Farm, which consists of row crops, hay, cattle and timber. Mr. Robinson is currently employed as Executive Director for the SEFA group, an engineering, construction and transportation company and he retired from the department of Treasury and Corporate Financial Planning at Santee Cooper, South Carolina's state owned electric and water utility. He serves on the board of the Orangeburg Area Cattleman's Association, and Tri-County Electric Cooperative. Mr. Robinson obtained a Bachelor of Science and a Master of Science in Civil Engineering from Clemson University and a Master of Business Administration from Charleston Southern University. He currently serves on the board of AgSouth Farm Credit, ACA. Mr. Robinson was a member of both the AgFirst Plan Sponsor Committee and the AgFirst/FCBT Plan Sponsor Committee in 2019 and served as chair of both committees. Mr. Robinson serves on the Board Coordinating Committee and as chair of the Board Audit Committee.

Michael T. Stone, 48, from Rowland, North Carolina, owns and operates P & S Farms, Inc. and Bo Stone Farms, LLC. The row crop units produce corn, wheat, and soybeans and the operations include a swine finishing unit under contract with Murphy Brown, a cow/calf herd, timber management and small produce for a roadside stand. Mr. Stone is a director of Cape Fear Farm Credit, ACA, a director of Southeastern Health hospital, a director of Dillon Christian School, and a member of the North Carolina Farm Bureau Energy and Transportation Committee. He also serves on the board of The Farm Credit Council, a trade organization. Mr. Stone has a Bachelor of Science in Agricultural Business Management (with a minor in Animal Science) and a Master of Science in Agriculture from North Carolina State University. Mr. Stone is the Board appointed member of both the AgFirst Plan Sponsor Committee and the AgFirst/FCBT Plan Sponsor Committee in 2019 and 2020 and was elected chair of both Committees for 2020. He served as chair of the Board Compensation Committee in 2019 and continues to serve as a member of the committee in 2020. Mr. Stone was elected Vice Chairman of the Board for 2020 and also serves on the Board Coordinating and the Board Governance Committees.

#### Committees

The Board has established an Audit Committee, Compensation Committee, Risk Policy Committee, Governance Committee and Coordinating Committee. All members of the Board, other than the Chairman, serve on a committee. The Chairman of the Board serves as an ex-officio member of all Board committees and the Vice Chairman serves as a member of the Board Compensation Committee. The Board has one designated financial expert who serves on the Audit Committee. The responsibilities for each committee are set forth in its respective Board approved charter.

#### **Compensation of Directors**

Directors were compensated in 2019 in cash at the rate of \$75,000 per year, payable at \$6,250 per month. This is compensation for attendance at Board meetings, Board committee meetings, certain other meetings pre-approved by the Board and other duties as assigned. Farm Credit Administration (FCA) regulations also allow additional compensation to be paid to a director in exceptional circumstances where extraordinary time and effort are involved. In this regard, additional compensation was paid for certain leadership positions on the Board, including the Chairman of the Board, Vice Chairman of the Board, Chair of each Board standing committee as well as to members of the Board Audit Committee in recognition of greater than normal participation in Board activities. Total cash compensation paid to all directors as a group during 2019 was \$1,395,001. Directors received no non-cash compensation during 2019. Additional information for each director who served during 2019 is provided in the following table.

		ber or buys	oer rea	iu
Name of Director	Board Meetings	Other Official Activities*	Farm Credit Council Bd. Activities	Total Comp. Paid During 2019
Jack W. Bentley, Jr.	15.00	13.25	7.50	\$ 82,500
Jenny R. Black	15.00	21.00	7.50	80,417
William J. Franklin, Jr.	15.00	11.25	7.50	75,000
Bonnie V. Hancock	15.00	14.00	7.50	82,084
Curtis R. Hancock, Jr.	15.00	15.00	7.50	95,000
Dale R. Hershey	15.00	10.25	7.50	82,500
Walter C. Hopkins, Sr.	15.00	18.00	7.50	82,500
William K. Jackson	15.00	27.25	7.50	87,500
J. Alvin Lyons	15.00	19.25	7.50	82,500
S. Alan Marsh	15.00	12.00	7.50	75,000
Fred R. Moore, Jr.	15.00	12.00	7.50	75,000
James M. Norsworthy, III	12.00	7.50	7.50	75,000
Katherine A. Pace	15.00	23.25	4.00	87,500
Thomas E. Porter, Jr.	15.00	14.50	7.50	75,000
William T. Robinson	15.00	15.75	7.50	90,000
Michael T. Stone**	15.00	15.75	7.50	82,500
Ellis W. Taylor	15.00	17.75	7.50	85,000
Total			i	\$ 1,395,001

Number of Days Served

\* Other official activities include Board committee meetings and Board training.

Does not include 4.5 days served as Board-appointed member of the AgFirst and AgFirst/FCBT Plan Sponsor Committees.

Directors are reimbursed on an actual cost basis for all expenses incurred in the performance of official duties. Such expenses may include transportation, lodging, meals, tips, tolls, parking of cars, laundry, registration fees and other expenses associated with travel on official business. A copy of the policy is available to shareholders upon request.

The aggregate amount of reimbursement for travel, subsistence and other related expenses for all directors as a group was \$161,942 for 2019, \$153,844 for 2018, and \$180,174 for 2017.

#### Transactions with Senior Officers and Directors

The Bank's disclosure on loans to and transactions with its officers and directors, to be disclosed in this section, is incorporated herein by reference to Note 10, *Related Party Transactions*, to the Financial Statements included in this Annual Report to shareholders. Such loans are subject to special approval requirements contained in the FCA regulations and were made on the same terms, including interest rate, amortization schedule and collateral, as those prevailing at the time for comparable transactions with unaffiliated persons. No loan to a director or to any organization affiliated with such person, or to any immediate family member who resides in the same household as such person or in whose loan or business operation such person has a material financial or legal interest, involved more than the normal risk of collectability.

There have been no transactions between the Bank and senior officers or directors which require reporting per FCA regulations.

#### **Involvement in Certain Legal Proceedings**

There were no matters which came to the attention of management or the Board of Directors regarding involvement of current directors or senior officers in specified legal proceedings which should be disclosed in this section. No directors or senior officers have been involved in any legal proceedings during the last five years which require reporting per FCA regulations.

#### Relationship with Independent Registered Public Accounting Firm

There were no changes in or material disagreements with the Bank's independent registered public accounting firm on any matter of accounting principles or financial statement disclosure during this period.

Aggregate fees expensed by the Bank for services rendered by its independent registered public accounting firm for the year ended December 31, 2019 were as follows:

	2019	
Independent Registered Public Accounting Firm PricewaterhouseCoopers LLP (PwC)		
Audit services	\$ 1,118,8	343
Audit-related services	4,2	35
Non-audit services	9	000
Total	\$ 1,123,9	78

Audit fees of \$1,118,843 were for the annual audits of financial statements of the Bank and District, of which \$190,773 related to the 2018 audit. Audit-related fees were for benefit plan audits. Non-audit fees were for disclosure checklist software subscription. Out-of-pocket expenses are included in the fee amounts reported above.

All non-audit services provided by PwC require pre-approval by the Audit Committee.

#### **Financial Statements**

The Financial Statements, together with the report thereon of PricewaterhouseCoopers LLP, dated March 12, 2020, and the Report of Management, which appear in this Annual Report to shareholders are incorporated herein by reference.

#### **Borrower Information Regulations**

FCA regulations require that borrower information be held in strict confidence by Farm Credit institutions, their directors, officers and employees. These regulations provide Farm Credit institutions clear guidelines for protecting their borrowers' nonpublic personal information.

On November 10, 1999, the FCA Board adopted a policy that requires Farm Credit institutions to formally inform new borrowers at loan closing of the FCA regulations on releasing borrower information and to address this information in the annual report to shareholders. The implementation of these measures ensures that new and existing borrowers are aware of the privacy protections afforded them through FCA regulations and Farm Credit System institution efforts.

#### **Shareholder Investment**

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 and combined information concerning AgFirst Farm Credit Bank and District Associations 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. This information can also be obtained at the Bank's website,

www.agfirst.com. The Bank prepares an electronic version of the Annual Report, which is available on the website, within 75 days after the end of the fiscal year. The Bank prepares an electronic version of each Quarterly Report within 40 days after the end of each fiscal quarter, except that no report is prepared for the fiscal quarter that coincides with the end of the fiscal year of the Bank.

## Additional Required Regulatory Capital Disclosures

The following disclosures contain regulatory disclosures as required for the Bank under Regulation 628.62 and 628.63 for risk-adjusted ratios: common equity tier 1 capital, tier 1 capital and total 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.

#### DISCLOSURE MAP

Disclosure Requirement	Description	2019 Annual Report Reference
Scope of Application	Corporate entity and structure	Note 1
	Restrictions of capital	Note 7, section F
Capital Structure	Terms and conditions of capital instruments	Note 7, sections A through E
Credit Risk: General	Qualitative disclosures	Note 2, section B; Note 3
	Distribution of risk exposure	Note 3; Note 4
	Loans by loan type	Note 3
	Major industry type	Note 3
	Composition of Direct Notes	Direct Notes section of MD&A
	Allowance for Loan Loss Reconciliation	Note 3
	Contractual maturity delineation	Note 3
Interest Rate Risk for Non-Trading Activities	Ouantitative & qualitative disclosure requirements	Interest Rate Risk Management section of MD&A

#### SCOPE OF APPLICATION

AgFirst Farm Credit Bank (AgFirst or the Bank) is one of the four banks of the Farm Credit System (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 December 31, 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 for purposes of calculating regulatory capital ratios, as only the institution that issued the equities may count the amount as regulatory capital.

#### CAPITAL STRUCTURE

Descriptions of the Bank's capitalization requirements, protection mechanisms, regulatory capitalization requirements and restrictions, and equities are included in Note 7, *Shareholders' Equity*, of the Notes to the Financial Statements.

The table below outlines the Bank's capital structure for the capital adequacy calculations as of December 31, 2019:

Common Equity Tier 1 Capital (CET1)           Common cooperative equities:         \$ 23 \$ 23           Statutory minimum purchased borrower stock         \$ 128,105 \$ 121,364           Other required member purchased stock         \$ 128,105 \$ 121,364           Allocated equities:         \$ 197,150 \$ 194,535           Nonqualified allocated surplus subject to retirement         4 18 4 416           Unallocated retained earnings         1,848,506 \$ 2,077,069           Paid-in capital         58,883 58,883           Regulatory adjustments and deductions made to CET1 (73,157) (71,926)         7(3,157) (71,926)           Total CET1         \$ 2,159,928 \$ 2,380,364           Additional Tier 1 Capital (AT1)         \$ 49,250 \$ 49,250           Regulatory adjustments and deductions made to AT1
Common cooperative equities:         3         23         \$ 23           Statutory minimum purchased borrower stock         \$ 23         \$ 23         \$ 121,364           Other required member purchased stock         \$ 128,105         \$ 121,364           Allocated equities:         \$ 3         \$ 121,364           Allocated stock subject to retirement         \$ 197,150         \$ 194,535           Nonqualified allocated surplus subject to retirement         \$ 418         \$ 416           Unallocated retained earnings         \$ 1,848,506         \$ 2,077,069           Paid-in capital         \$ 58,883         \$ 58,883           Regulatory adjustments and deductions made to CET1         \$ 73,157         \$ (71,926)           Total CET1         \$ 2,159,928         \$ 2,380,364           Additional Tier 1 Capital (AT1)         \$ 49,250         \$ 49,250           Regulatory adjustments and deductions made to AT1         \$ 49,250         \$ 49,250
Statutory minimum purchased borrower stock         \$ 23         \$ 23           Other required member purchased stock         128,105         121,364           Allocated equities:         \$ 197,150         194,535           Allocated stock subject to retirement         418         416           Unallocated retained earnings         1,848,506         2,077,069           Paid-in capital         58,883         58,883           Regulatory adjustments and deductions made to CET1         (73,157)         (71,926)           Total CET1         \$ 2,159,928         \$ 2,380,364           Additional Tier 1 Capital (AT1)         \$ 49,250         \$ 49,250           Regulatory adjustments and deductions made to AT1         -         -         -
Allocated equities:  Allocated stock subject to retirement  Allocated stock subject to retirement  Nonqualified allocated surplus subject to retirement  Unallocated retained earnings  Paid-in capital  Sea, 883  Regulatory adjustments and deductions made to CET1  Total CET1  Additional Tier 1 Capital (AT1)  Non-cumulative perpetual preferred stock  Regulatory adjustments and deductions made to AT1  Non-cumulative perpetual preferred stock  Regulatory adjustments and deductions made to AT1  Non-cumulative perpetual preferred stock  Regulatory adjustments and deductions made to AT1
Allocated stock subject to retirement         197,150         194,535           Nonqualified allocated surplus subject to retirement         418         416           Unallocated retained earnings         1,848,506         2,077,069           Paid-in capital         58,883         58,883           Regulatory adjustments and deductions made to CET1         (73,157)         (71,926)           Total CET1         \$ 2,159,928         2,380,364           Additional Tier 1 Capital (AT1)           Non-cumulative perpetual preferred stock         \$ 49,250         \$ 49,250           Regulatory adjustments and deductions made to AT1         —         —
Nonqualified allocated surplus subject to retirement         418         416           Unallocated retained earnings         1,848,506         2,077,069           Paid-in capital         58,883         58,883           Regulatory adjustments and deductions made to CET1         (73,157)         (71,926)           Total CET1         \$ 2,159,928         \$ 2,380,364           Additional Tier 1 Capital (AT1)           Non-cumulative perpetual preferred stock         \$ 49,250         \$ 49,250           Regulatory adjustments and deductions made to AT1         -         -
Unallocated retained earnings         1,848,506         2,077,069           Paid-in capital         58,883         58,883           Regulatory adjustments and deductions made to CET1         (73,157)         (71,926)           Total CET1         \$ 2,159,928         \$ 2,380,364           Additional Tier 1 Capital (AT1)           Non-cumulative perpetual preferred stock         \$ 49,250         \$ 49,250           Regulatory adjustments and deductions made to AT1         -         -
Paid-in capital         58,883         58,883           Regulatory adjustments and deductions made to CET1         (73,157)         (71,926)           Total CET1         \$ 2,159,928         \$ 2,380,364           Additional Tier 1 Capital (AT1)           Non-cumulative perpetual preferred stock         \$ 49,250         \$ 49,250           Regulatory adjustments and deductions made to AT1         -         -
Regulatory adjustments and deductions made to CET1         (73,157)         (71,926)           Total CET1         \$ 2,159,928         \$ 2,380,364           Additional Tier 1 Capital (AT1)           Non-cumulative perpetual preferred stock         \$ 49,250         \$ 49,250           Regulatory adjustments and deductions made to AT1         -         -
Total CET1
Additional Tier 1 Capital (AT1)  Non-cumulative perpetual preferred stock  Regulatory adjustments and deductions made to AT1  49,250  49,250  49,250
Non-cumulative perpetual preferred stock \$ 49,250 \$ 49,250 Regulatory adjustments and deductions made to AT1
Non-cumulative perpetual preferred stock \$ 49,250 \$ 49,250 Regulatory adjustments and deductions made to AT1
Total AT1 \$ 49,250 \$ 49,250
Total Tier 1 Capital \$ 2,209,178 \$ 2,429,614
Tier 2 Capital
Allowance for loan losses \$ 18,032 \$ 19.815
Reserve for unfunded commitments 261 210
Regulatory adjustments and deductions made to total capital – – –
Total Tier 2 Capital \$ 18,293 \$ 20,025
Total Capital \$ 2,227,471 \$ 2,449,639
Reconciliation to Balance Sheets:
Allowance for loan losses (18,032)
Reserve for unfunded commitments (261)
Intra-system investments 73,157
Accumulated other comprehensive income 48,483
Total Capital per Balance Sheets \$ 2,330,818

#### CAPITAL ADEQUACY AND CAPITAL BUFFERS

In conjunction with the annual business and financial planning process, the Board of Directors reviews and approves a capital adequacy plan which includes target levels for capital and capital ratio baselines. When reviewing the capital adequacy plan and setting an appropriate target equity level, the Board considers the following: credit risk and allowance levels; quality and quantity of earnings; sufficiency of liquid funds; operational risk; interest rate risk; growth in determining optimal capital levels; the Bank's overall risk profile; capability of management; quality of operating policies, procedures, and internal controls; capital composition; loan volume projections; anticipated future capital needs; and the Bank's capital levels in comparison to regulatory minimum capital standards.

The Board balances the desire to distribute a level of patronage that provides appropriate returns to the Bank's customer/owners with the need to properly capitalize the Bank. The Board may increase or decrease these patronage levels based on its ongoing evaluation of the Bank's business. As a result, there is no assurance that patronage will remain at current levels.

As part of its business planning process, the Bank performs stress tests to examine the Bank's financial condition and performance, including capital levels, under a variety of market and economic environments, including unanticipated loan growth and prolonged periods of financial and loan quality stress. These stress tests illustrate the Bank's ability to continue to maintain compliance with regulatory requirements through severe market conditions while continuing to fulfill the Bank's mission. Results of these stress tests are reviewed with the Board of Directors and the FCA.

The table below outlines the Bank's risk-weighted assets by exposure (including accrued interest of that exposure) as of December 31, 2019. Risk-weighted assets are calculated on a three-month average daily balance.

(dollars in thousands)	<b>Ending Balance</b>	Risl	k-Weighted Assets
Exposures to:			
Government-sponsored entities, including Direct Notes to			
Associations	\$ 25,192,564	\$	4,077,658
Depository institutions	444,569		50,398
Corporate exposures, including borrower loans and leases	5,598,601		5,465,462
Residential mortgage loans	2,181,463		1,078,499
Past due > 90 days and nonaccrual loans	23,494		22,321
Securitizations	740,844		209,671
Exposures to obligors and other assets	216,104		123,582
Off-balance sheet exposures	5,495,304		1,567,702
Total	\$ 39,892,943	\$	12,595,293
Reconciliation to Balance Sheets:			
Off-balance sheet exposures	(5,495,304)		
Allowance for loan losses not risk-weighted	(18,032)		
Intra-system investments not risk-weighted	73,157		
AFS mark to market not risk-weighted	52,325		
Total Assets per Balance Sheets	\$ 34,505,089		

As of December 31, 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 at least 9.58 percent. Additionally, the Bank's leverage ratio was 2.10 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 following sets forth the regulatory capital ratios:

	Minimum	Capital Conservation	Minimum Requirement with Capital	Capi	tal Ratios as of Decemb	er 31,
Ratio	Requirement	Buffer*	Conservation Buffer	2019	2018	2017
Risk-adjusted ratios:						
CET1 Capital	4.5%	1.875%	6.375%	18.90%	21.20%	21.73%
Tier 1 Capital	6.0%	1.875%	7.875%	19.29%	21.64%	22.18%
Total Capital	8.0%	1.875%	9.875%	19.45%	21.79%	22.31%
Permanent Capital	7.0%	0.0%	7.0%	19.32%	21.67%	22.21%
Non-risk-adjusted ratios:						
Tier 1 Leverage	4.0%	1.0%	5.0%	7.10%	7.53%	7.67%
URE and UREE Leverage	1.5%	0.0%	1.5%	6.17%	6.58%	6.72%

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

The following sets forth regulatory capital ratios as previously reported:

	Regulatory					
	Minimum	2016	2015	2014	2013	2012
Permanent Capital Ratio	7.00%	21.31%	20.71%	21.83%	22.85%	23.58%
Total Surplus Ratio	7.00%	21.21%	20.64%	21.80%	22.81%	23.55%
Core Surplus Ratio	3.50%	19.13%	18.48%	19.38%	19.98%	20.04%
Net Collateral Ratio	103.00%	106.69%	106.93%	106.79%	106.83%	107.03%

#### CREDIT RISK: GENERAL

System entities have specific lending authorities within their chartered territories. The Bank is subject to credit risk by lending to the District's Federal Land Credit Associations (FLCAs), Production Credit Associations (PCAs) and Agricultural Credit Associations (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 December 31, 2019.

Refer to Note 2, Summary of Significant Accounting Policies, of the accompanying financial statements for the Bank's policy for determining past due or delinquency status, policy for placing loans on nonaccrual status, policy for returning loans to accrual status, definition of and policy for identifying impaired loans, description of the methodology used to estimate allowance for loan losses, and policy for charging-off uncollectible amounts. Refer to Note 3, Loans and Allowance for Loan Losses, and Note 4, 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, *Organization and Operations*, in the Notes to the Financial Statements, a substantial portion of the loan balance is concentrated in notes receivables 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.

Through the District Associations' and Bank's participation in loans or interests in loans to/from other institutions within the System and outside the System, the Bank and District Associations limit their exposure to both borrower and commodity concentrations. This also allows the Bank and District Associations to manage growth and capital, and to improve geographic diversification. Concentration risk is reviewed and measured by industry, product, geography and customer limits.

Although neither the Bank nor any other System institution receives any direct government support, credit quality is indirectly enhanced by government support in the form of program payments to borrowers, which improve their ability to honor their commitments.

The following table illustrates credit risk mitigants within AgFirst's loan portfolio which reduce capital requirements as of December 31, 2019:

(dollars in thousands)	Ending Balance	3-Month Average Balance	Risk- Weighted Exposures	% of Total Loans
Loans with unconditional guarantee	\$ 5,832	\$ 5,845	\$ -	-%
Loans with conditional guarantee	1,171,503	1,193,572	238,714	5%
Direct Notes	16,876,144	16,769,204	3,353,841	67%
Total	\$ 18,053,479	\$ 17,968,621	\$ 3,592,555	72%

An additional technique to reduce credit risk is AgFirst's monitoring for commodity and geographic concentrations. Commodity and industry categories are based on the Standard Industrial Classification system published by the federal government. This system is used to assign commodity or industry categories based on the largest agricultural commodity of the customer.

The Bank's credit risk associated with its Direct Note portfolio approximates that of the aggregate District Associations' portfolios as a whole. The Associations' credit portfolios are comprised of a number of segments having varying, and in some cases complementary, agricultural characteristics.

Excluding accrued interest receivable, at December 31, 2019, the Bank's Direct Note portfolio totaled \$16.830 billion and aggregate District Associations' loan portfolios totaled \$22.482 billion. The following tables include the Bank's Direct Note in total. For geographic and commodity distributions for the District Associations' total loan portfolio, see the *Direct Notes* subsection of the *Loan Portfolio* section in Management's Discussion and Analysis.

The following table illustrates AgFirst's loan portfolio by geographic distribution at December 31, 2019. This table does not include accrued interest.

AgFirst Loan Portfolio by State At Period End Year-to-Date Average Balance Outstanding Total Outstanding Unfunded Unfunded Total (dollars in thousands) Exposure Exposure Loans Amounts Loans Amounts North Carolina 1,535,472 223,317 1,758,789 1,453,556 210,744 1,664,300 1,140,379 356,811 1,497,190 995,718 1,336,887 Georgia 341,169 Florida 662,632 223,303 885,935 596,666 256,726 853,392 Virginia 575,499 108,804 684,303 570,581 103,741 674,322 313,984 575,026 318,060 286,140 604,200 261,042 Minnesota South Carolina 485,475 41,334 526,809 446,990 43,993 490,983 352,418 123,154 475,572 432,162 92,072 524,234 Texas 352,913 188,418 143,179 331,597 Ohio 208,140 144,773 345,994 323,023 343,615 Maryland 322,798 23,196 20.592 337,233 215,549 Pennsylvania 198,902 138,331 119,697 335,246 249,970 334,465 243,981 California 84,495 67,444 311,425 94,286 196,537 Missouri 185,161 93,336 278,497 290,823 New York 119,705 300,030 120,653 240,358 182,663 117,367 235,726 222,994 Louisiana 146,835 88,891 134,860 88,134 Kentucky 193,372 13,503 206,875 207,834 20,903 228,737 Illinois 98,749 101,645 200,394 90,119 103,457 193,576 Mississippi 77,061 122,374 199,435 80,941 105,630 186,571 All other states 1,409,651 787,769 2,197,420 1,379,818 762,689 2,142,507 Direct Notes 16,830,432 2,444,423 19,274,855 16,430,609 2,552,809 18,983,418 5,525,304 30,636,963 24,484,009 5,505,674 Total loans 25,111,659 29,989,683

The following table shows the various major commodity groups in the portfolio based on borrower eligibility at December 31, 2019. This table does not include accrued interest.

AgFirst Loan Portfolio by Commodity Group Based on Eligibility

Agrits Loan Fortions by Commonly Group Based on Enginetry												
			A	t Period End				Year-	to-Da	te Average B	alan	ce
	Outstanding Unfunded Total				Outstanding Unfunded					Total		
(dollars in thousands)		Loans		Amounts		Exposure		Loans		Amounts		Exposure
Rural Home Loans	\$	3,325,122	\$	131,323	\$	3,456,445	\$	3,225,014	\$	124,749	\$	3,349,763
Processing		759,579		769,034		1,528,613		777,759		717,177		1,494,936
Utilities		796,460		691,168		1,487,628		811,970		616,589		1,428,559
Forestry		942,823		318,447		1,261,270		923,579		315,682		1,239,261
Field Crops		332,428		184,776		517,204		297,815		187,177		484,992
Tree Fruits and Nuts		218,600		119,027		337,627		208,605		132,862		341,467
Swine		191,181		83,627		274,808		158,910		90,346		249,256
Grains		104,526		125,884		230,410		96,221		137,242		233,463
Nursery/Greenhouse		181,968		47,949		229,917		198,657		57,977		256,634
Other Real Estate		216,286		8,440		224,726		215,318		6,527		221,845
Dairy		189,944		30,576		220,520		123,723		32,422		156,145
Cattle		150,282		56,382		206,664		150,147		55,508		205,655
Other		872,028		514,248		1,386,276		865,682		478,607		1,344,289
Direct Notes		16,830,432		2,444,423		19,274,855		16,430,609		2,552,809		18,983,418
Total loans	\$	25,111,659	\$	5,525,304	\$	30,636,963	\$	24,484,009	\$	5,505,674	\$	29,989,683

The following table segregates loans based upon repayment dependency by commodity at December 31, 2019. This table does not include accrued interest.

AgFirst Loan Portfolio by Commodity Group Based on Repayment Dependency

	At Period End							Year-	o-Da	te Average B	alan	ce
(dollars in thousands)	(	Outstanding Loans		Unfunded Amounts		Total Exposure	C	Outstanding Loans		Unfunded Amounts		Total Exposure
Non-Farm Income	\$	3,624,494	\$	160,683	\$	3,785,177	\$	3,523,093	\$	151,209	\$	3,674,302
Rural Utilities		796,460		691,168		1,487,628		811,970		616,589		1,428,559
Timber		803,119		288,359		1,091,478		785,576		288,085		1,073,661
Fruit and Vegetables		481,415		311,204		792,619		412,340		325,572		737,912
Processing and Marketing		249,192		475,232		724,424		291,605		391,472		683,077
Grains		350,495		277,566		628,061		340,429		289,761		630,190
Farm Related Business		365,288		76,927		442,215		351,707		81,031		432,738
Swine		285,246		156,930		442,176		272,435		146,796		419,231
Poultry		225,781		202,746		428,527		160,625		225,524		386,149
Dairy		190,032		78,743		268,775		189,859		64,029		253,888
Beef		161,696		70,251		231,947		153,280		74,734		228,014
Other		748,009		291,072		1,039,081		760,481		298,063		1,058,544
Direct Notes		16,830,432		2,444,423		19,274,855		16,430,609		2,552,809		18,983,418
Total loans	\$	25,111,659	\$	5,525,304	\$	30,636,963	\$	24,484,009	\$	5,505,674	\$	29,989,683

The following table illustrates AgFirst's impaired loans by geographic distribution at December 31, 2019. This table does not include accrued interest.

Total Outstanding Impaired Loans by State							
(dollars in thousands)	At F	Period End		r-to-Date age Balance			
Ohio	\$	7,405	\$	7,863			
North Carolina		6,943		6,964			
Colorado		6,694		7,341			
Arkansas		3,915		4,020			
Florida		3,785		3,669			
Maryland		1,976		2,204			
South Carolina		1,572		1,591			
Georgia		1,500		1,096			
Virginia		901		701			
Texas		810		823			
Missouri		763		710			
All other states		2,782		2,593			
Total impaired loans	\$	39.046	\$	39,575			

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 as of December 31, 2019:

U		
Unconditional Guarantee:		
U.S. Govt. Treasury Securities \$ 143,260 \$ 143,	,839 2%	\$ -
U.S. Govt. Guaranteed 4,495,273 4,539,	,387 57%	_
Conditional Guarantee:		
U.S. Govt. Agency Guaranteed 2,466,319 2,471,	,728 31%	486,245
Total \$ 7,104,852 \$ 7,154,	,954 90%	\$ 486,045

The remaining credit risk in the Bank's investment portfolio primarily relates to the 10 percent of the portfolio composed of asset-backed securities (ABS), Rural Housing Mortgage-Backed Securities (RHMS) and Rural America Bonds (RABs). The ABS 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 RHMS portfolio must be fully guaranteed by a government agency or government sponsored enterprise. RABs are private placement securities, which generally have some form of credit enhancement.

Credit risk in the investment portfolio also arises from the inability of guarantors and third-party providers of other credit enhancements, such as bond insurers or Farmer Mac, to meet their contractual obligations to the Bank.

#### COUNTERPARTY CREDIT RISK

Counterparty credit risk exposures may consist of derivative instruments and repurchase-style transactions. By using derivative instruments, the Bank exposes itself to credit and market risk. The amount of this exposure depends on the value of underlying market factors (e.g. interest rates and foreign exchange rates), which can be volatile and uncertain in nature. 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.

Financial instruments qualifying as eligible collateral are specifically defined under individual counterparty credit support agreements, but generally include cash, U.S. Treasury debt obligations, debt obligations of certain federal agencies and mortgage-backed securities guaranteed by certain federal agencies. Federal agencies include the Government National Mortgage Association, Federal National Mortgage Association, Federal Home Loan Mortgage Corporation, and the Federal Home Loan Banks. The value of the instrument when used as collateral may be discounted from its market price up to 10 percent, depending on the security type, issuer and term. Such discounts are defined in the credit support agreement.

At December 31, 2019, the Bank had no derivative contracts outstanding.

#### SECURITIZATION

Securitizations are transactions in which:

- The credit risk of the underlying exposure is transferred to third parties, and has been separated into two or more transher:
- The performance of the securitization depends upon the performance of the underlying exposures or reference assets;
- All or substantially all of the underlying exposures or reference assets are financial exposures.

Securitizations include on- or off-balance sheet exposures (including credit enhancements) that arise from a securitization or re-securitization transaction; or an exposure that directly or indirectly references a securitization (e.g., credit derivative). A re-securitization is a securitization transaction in which one or more of the underlying exposures that have been securitized is itself a securitization.

The Bank currently only participates in securitizations as an investor through the purchase of mortgage-backed securities (MBS) and ABS as included in its investment portfolio. As of December 31, 2019, the Bank did not retain any re-securitization exposures.

The Bank is subject to liquidity risk with respect to securitization exposures. In volatile market conditions, it could be difficult to sell such investments, if the need arises, and the discounts from face value would likely be significant. In addition, because of the inherent uncertainty of determining the fair value of investments that do not have a readily available market value, the fair value of these investments may differ significantly from the values that would have been used had a ready market existed for the investments.

For securitization exposures, the Bank has elected to utilize the simplified supervisory formula approach (SSFA) risk-based capital approach. As such, the Bank's ABS portfolio is risk weighted on an individual security level. As of December 31, 2019, the ABS risk-weights ranged from 20.00 percent to 89.44 percent, with a weighted average risk-weight of 26.52 percent. Total risk-weighted assets for the securitization portfolio utilizing a 3-month average daily balance was \$209.7 million at December 31, 2019.

The following table shows the risk-weight distribution as of December 31, 2019 for ABS securities which are risk weighted using the SSFA approach:

	Fair Value by SSFA Risk Weight Classification										
(1.11 ) 1 (1)	Automo		redit Card								
(dollars in thousands)	ABS	8	ABSs		Total						
0% - 50%	\$ 100,7	21 \$	564,812	\$	665,533						
Greater than 50% - 100%	74,0	198			74,098						
Greater than 100% - 150%		_			-						
Total Exposure	\$ 174,8	\$19 \$	564,812	\$	739,631						

As of December 31, 2019, the Bank did not hold any off-balance sheet securitization exposures nor were any securitization exposures deducted from capital. For the year ended December 31, 2019, there were no sales of ABS securities and no realized gains or losses.

Refer to Note 4, *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 MBS and ABS held in the Bank's investment portfolio.

#### **EQUITIES**

At December 31, 2019, the Bank had no equity investments other than equity investments in other Farm Credit institutions.

## INTEREST RATE RISK

See the *Interest Rate Risk Management* subsection of the *Risk Management* section in Management's Discussion and Analysis for the disclosures on the Bank's interest rate risk management practices.

# 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 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 is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of the financial statements for external purposes in accordance with generally accepted accounting principles in the United States of America (GAAP).

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 statements in accordance with GAAP 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 December 31, 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 December 31, 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 December 31, 2019.

The Bank's internal control over financial reporting as of December 31, 2019 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in the Report of Independent Registered Public Accounting Firm which expresses an unqualified opinion on the effectiveness of the Bank's internal control over financial reporting as of December 31, 2019.

Leon T. Amerson

President and Chief Executive Officer

Stephen Gilbert

Stephen Gilbert

Senior Vice President and Chief Financial Officer

March 12, 2020

## Report of the Audit Committee

The Audit Committee of the Board of Directors (the Committee) is comprised of the directors named below. None of the directors who serve on the Committee is an employee of AgFirst Farm Credit Bank (the Bank) and in the opinion of the Board of Directors, each is free of any relationship with the Bank or management that would interfere with the director's independent judgment on the Committee.

The Committee has adopted a written charter that has been approved by the Board of Directors. The Committee has reviewed and discussed the Bank's audited financial statements with management, which has primary responsibility for the financial statements. The financial statements were prepared under the oversight of the Committee.

PricewaterhouseCoopers LLP (PwC), the Bank's independent registered public accounting firm for 2019, is responsible for expressing an opinion on the conformity of the Bank's audited financial statements with accounting principles generally accepted in the United States of America. The Committee has discussed with PwC the matters that are required to be discussed by Statement on Auditing Standards No. 114 (*The Auditor's Communication With Those Charged With Governance*). The Committee discussed with PwC its independence from the Bank. The Committee also reviewed the non-audit services provided by PwC and concluded that these services were not incompatible with maintaining PwC's independence.

Based on the considerations referred to above, the Committee recommended to the Board of Directors that the audited financial statements be included in the Bank's Annual Report for 2019. The foregoing report is provided by the following independent directors, who constitute the Committee:

William T. Robinson

William V. Rolinson

Chairman of the Audit Committee

**Members of Audit Committee** 

Gary L. Baldosser Jack W. Bentley, Jr. Sherry E. Bowden J. Alvin Lyons

March 12, 2020



## **Report of Independent Registered Public Accounting Firm**

To the Board of Directors and Shareholders of AgFirst Farm Credit Bank

# Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying balance sheets of AgFirst Farm Credit Bank (the "Company") as of December 31, 2019, 2018 and 2017, and the related statements of income, of comprehensive income, of changes in shareholders' equity and of cash flows for the years then ended, including the related notes (collectively referred to as the "financial statements"). We also have audited the Company's internal control over financial reporting as of December 31, 2019, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2019, 2018 and 2017, and the results of its operations and its cash flows for the years then ended in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2019, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the COSO.

## **Basis for Opinions**

The Company's management is responsible for these financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Report on Internal Control Over Financial Reporting. Our responsibility is to express opinions on the Company's financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the relevant ethical requirements relating to our audit, which include standards of the American Institute of Certified Public Accountants (AICPA) Code of Professional Conduct and the Farm Credit Administration's independence rules set forth in 12 CFR Part 621, Accounting and Reporting Requirements, Subpart E, Auditor Independence.

We conducted our audits in accordance with the auditing standards of the PCAOB and in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the financial statements included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.



## Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Charlotte, North Carolina

March 12, 2020

We have served as the Company's auditor since 1985.

Pricewaterhouse Coopers LLP

# **Balance Sheets**

	As of December 31,							
(dollars in thousands)		2019		2018		2017		
Assets								
Cash	\$	444,559	\$	421,485	\$	440,768		
Cash equivalents	Ψ	650,000	Ψ	100,000	Ψ	272,519		
Investments in debt securities:		,		,		_,_,-		
Available-for-sale (amortized cost of \$7,843,244, \$7,988,624, and								
\$7,683,631, respectively)		7,895,569		7,939,196		7,663,605		
Held-to-maturity (fair value of \$40,842, \$44,894, and		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.,,		,,,,,,,,,		
\$463,340, respectively)		37,266		42,052		458,623		
Total investments in debt securities		7,932,835		7,981,248		8,122,228		
Loans		25,111,659		24,275,881		23,359,160		
Allowance for loan losses		(18,032)		(18,049)		(14,381)		
Net loans		25,093,627		24,257,832		23,344,779		
Accrued interest receivable		94,806		90,794		74,979		
Accounts receivable		126,865		71,061		80,267		
Equity investments in other Farm Credit institutions		76,710		74,798		72,593		
Premises and equipment, net		54,219		55,865		59,369		
Other property owned		3,041		2,842		154		
Other assets		28,427		22,537		19,801		
Total assets	\$	34,505,089	\$	33,078,462	\$	32,487,457		
Liabilities								
Systemwide bonds payable	\$	27,291,279	\$	25,807,367	\$	24,829,679		
Systemwide notes payable		4,432,488		4,574,334		4,933,312		
Accrued interest payable		104,587		109,659		81,471		
Accounts payable Other liabilities		300,141		327,610		356,446		
Other habilities		45,776		35,795		43,734		
Total liabilities		32,174,271		30,854,765		30,244,642		
Commitments and contingencies (Note 11)								
Shareholders' Equity								
Perpetual preferred stock		49,250		49,250		49,250		
Capital stock and participation certificates		325,278		317,840		313,752		
Additional paid-in-capital		58,883		58,883		58,883		
Retained earnings		44.0		4.40		400		
Allocated Unallocated		418		1 848 036		492 1 845 104		
Accumulated other comprehensive income (loss)		1,848,506 48,483		1,848,936 (51,652)		1,845,194 (24,756)		
Accumulated other comprehensive meonic (1088)		70,703		(31,034)		(47,730)		
Total shareholders' equity		2,330,818		2,223,697		2,242,815		
Total liabilities and equity	\$	34,505,089	\$	33,078,462	\$	32,487,457		

# **Statements of Income**

	For the year ended December 31,								
(dollars in thousands)		2019		2018		2017			
Interest Income									
Investments	\$	218,826	\$	196,553	\$	149,737			
Loans		895,560		813,109		710,835			
Other		5,017		1,051					
Total interest income		1,119,403		1,010,713		860,572			
Interest Expense		711,741		600,546		413,505			
Net interest income		407,662		410,167		447,067			
Provision for (reversal of allowance for) loan losses		(935)		3,542		(551)			
Net interest income after provision for loan losses		408,597		406,625		447,618			
Noninterest Income									
Loan fees		8,710		8,894		8,595			
Building lease income		4,079		3,287		3,543			
Gains (losses) on investments, net		_		13		(258)			
Gains (losses) on debt extinguishment		(30,034)		150		(4,528)			
Gains (losses) on other transactions		1,281		1,462		1,802			
Insurance premium refund		2,620		6,330		_			
Other noninterest income		18,362		16,340		14,221			
Total noninterest income		5,018		36,476		23,375			
Noninterest Expenses									
Salaries and employee benefits		65,405		63,546		58,282			
Occupancy and equipment		24,570		22,597		22,834			
Insurance Fund premiums		9,104		8,265		13,868			
Other operating expenses		42,705		42,289		30,698			
Losses (gains) from other property owned		150		416		562			
Total noninterest expenses		141,934		137,113		126,244			
Net income	\$	271,681	\$	305,988	\$	344,749			

# **Statements of Comprehensive Income**

	For the year ended December 31,									
(dollars in thousands)	2019	2018	2017							
Net income	\$ 271,681	\$ 305,988	\$ 344,749							
Other comprehensive income:										
Unrealized gains (losses) on investments	101,753	(29,403)	(22,587)							
Change in value of cash flow hedges	(353)	868	856							
Employee benefit plans adjustments	(1,265)	1,639	(672)							
Other comprehensive income (Note 7)	100,135	(26,896)	(22,403)							
Comprehensive income	\$ 371,816	\$ 279,092	\$ 322,346							

# Statements of Changes in Shareholders' Equity

(dollars in thousands)		Perpetual Preferred Stock		Capital Stock and Participation Certificates		Additional Paid-In-Capital			Carnings nallocated	ocumulated Other mprehensive Income	Sh	Total areholders' Equity
Balance at December 31, 2016	\$	49,250	\$	301,905	\$	58,883	\$	559	1,817,004	\$ (2,353)	\$	2,225,248
Comprehensive income									344,749	(22,403)		322,346
Capital stock/participation certificates									,	( , ,		
issued/(retired), net				9,079					(2.7(6)			9,079
Stock dividends declared/paid Dividends paid on perpetual preferred stock				2,766					(2,766) (1,146)			(1,146)
Cash patronage declared									(312,456)			(312,456)
Retained earnings retired								(67)	(312,430)			(67)
Patronage distribution adjustment				2				(**)	(191)			(189)
Balance at December 31, 2017	\$	49,250	\$	313,752	\$	58,883	\$	492	\$ 1,845,194	\$ (24,756)	\$	2,242,815
Comprehensive income									305,988	(26,896)		279,092
Capital stock/participation certificates										(==,===)		_,,,,,_
issued/(retired), net				1,453								1,453
Stock dividends declared/paid				2,635					(2,635)			_
Dividends paid on perpetual preferred stock									(1,622)			(1,622)
Cash patronage declared								(50)	(298,223)			(298,223)
Retained earnings retired								(52)	224			(52)
Patronage distribution adjustment									234			234
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												
accounting principle									(149)			(149)
Comprehensive income									271,681	100,135		371,816
Capital stock/participation certificates issued/(retired), net				4,170								4,170
Stock dividends declared/paid				3,112					(3,112)			<b>4,1</b> 70
Dividends paid on perpetual preferred stock	[			0,112					(1,798)			(1,798)
Patronage distribution									( ) - *)			( ) )
Cash									(266,942)			(266,942)
Nonqualified allocated retained earnings								2	(2)			_
Retained earnings retired								(24)	(400)			(24)
Patronage distribution adjustment				156					(108)			48
Balance at December 31, 2019	\$	49,250	\$	325,278	\$	58,883	\$	418	\$ 1,848,506	\$ 48,483	\$	2,330,818

# **Statements of Cash Flows**

	For the year ended December 3					er 31,
(dollars in thousands)		2019		2018		2017
Cash flows from operating activities:						
Net income	\$	271,681	\$	305,988	\$	344,749
Adjustments to reconcile net income to net cash provided by operating activities:						
Depreciation on premises and equipment		8,473		7,988		8,844
Amortization of net deferred loan (fees) costs and premium amortization (discount accretion)		3,320		1,277		1,101
Premium amortization (discount accretion) on investment securities		6,563		4,310		10,764
(Premium amortization) discount accretion on bonds and notes		118,515		97,097		59,705
Provision for loan losses		(935)		3,542		(551)
(Gains) losses on other property owned, net		74		122		567
(Gains) losses on investments, net		_		(13)		258
(Gains) losses on debt extinguishment		30,034		(150)		4,528
(Gains) losses on other transactions		(1,281)		(1,462)		(1,802)
Net change in loans held for sale		4,153		3,421		6,852
Changes in operating assets and liabilities:						
(Increase) decrease in accrued interest receivable		(4,012)		(15,815)		(8,859)
(Increase) decrease in accounts receivable		(55,804)		9,206		9,199
Increase (decrease) in accrued interest payable		(5,072)		28,188		22,947
Increase (decrease) in accounts payable		3,714		(14,505)		(6,071)
Change in other, net		3,789		(6,619)		(12,982)
Total adjustments		111,531		116,587		94,500
Net cash provided by (used in) operating activities		383,212		422,575		439,249
Cash flows from investing activities:						
Investment securities purchased		(2,188,559)		(2,346,736)		(2,861,553)
Investment securities sold or matured		2,331,809		2,454,884		2,738,767
Net (increase) decrease in loans		(842,707)		(925,315)		(452,539)
(Increase) decrease in equity investments in other Farm Credit System institutions		(1,912)		(2,205)		(2,338)
Purchase of premises and equipment, net		(6,940)		(4,484)		(8,175)
Proceeds from sale of premises and equipment		281				
Proceeds from sale of other property owned		103		257		2,743
Net cash provided by (used in) investing activities		(707,925)		(823,599)		(583,095)
Cash flows from financing activities:						
Bonds and notes issued		35,834,051		15,456,988		18,049,164
Bonds and notes retired		(34,640,535)		(14,935,225)		(17,758,797)
Capital stock and participation certificates issued/retired, net		4,170		1,453		9,079
Distribution to shareholders		(298,077)		(312,320)		(252,848)
Dividends paid on perpetual preferred stock		(1,798)		(1,622)		(1,146)
Retained earnings retired		(24)		(52)		(67)
Net cash provided by (used in) financing activities		897,787		209,222		45,385
Net increase (decrease) in cash and cash equivalents		573,074		(191,802)		(98,461)
Cash and cash equivalents, beginning of period		521,485		713,287		811,748
Cash and cash equivalents, end of period	\$	1,094,559	\$	521,485	\$	713,287
Supplemental schedule of non-cash activities:						
Receipt of property in settlement of loans	\$	376	\$	3,067	•	289
Change in unrealized gains (losses) on investments, net	Φ	101,753	Ψ	(29,403)	Ψ	(22,587)
Employee benefit plans adjustments		1,265		(1,639)		672
Non-cash changes related to derivatives:		-,00		(1,037)		072
Increase (decrease) in bonds and notes	\$	_	\$	_	\$	(92)
Decrease (increase) in other assets	4	_	~	_	-	92
Supplemental information:						
Interest paid	\$	598,297	\$	475,261	\$	330,853
•	4	0, /	-	,	-	

## Notes to the Financial Statements

#### Note 1 — Organization and Operations

Organization: AgFirst Farm Credit Bank (the Bank or AgFirst) is a member-owned cooperative that provides credit and credit-related services to qualified borrowers. The Bank is chartered to serve the states of Pennsylvania, Delaware, Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, the Commonwealth of Puerto Rico and portions of Ohio, Tennessee, Kentucky and Louisiana.

AgFirst is a lending institution in the Farm Credit System (the System), a nationwide network of cooperatively owned banks, associations and related service organizations. The System was established by Acts of Congress and is subject to the provisions of the Farm Credit Act of 1971, as amended (the Farm Credit Act). The System specializes in providing financing and related services to qualified borrowers for agricultural and rural purposes.

The nation is served by three Farm Credit Banks (FCBs) and one Agricultural Credit Bank (ACB) (collectively, the System Banks), each of which has specific lending authorities within its chartered territory. The ACB also has additional specific nationwide lending authorities. The System Banks obtain a substantial majority of the funds for their lending operations through the sale of consolidated Systemwide bonds and notes to the public, but may also obtain a portion from internally generated earnings, the issuance of common and preferred stock and, to a lesser extent, the issuance of subordinated debt.

Each System Bank serves one or more Agricultural Credit Associations (ACAs) that originate long-term, short-term and intermediate-term loans, Production Credit Associations (PCAs) that originate and service short- and intermediate-term loans, and/or Federal Land Credit Associations (FLCAs) that originate and service long-term real estate mortgage loans. These associations borrow a majority of the funds for their lending activities from their related bank. System Banks are also responsible for supervising the activities of associations within their districts. AgFirst and its related associations (Associations or District Associations) are collectively referred to as the AgFirst District. The District Associations, certain Other Financing Institutions (OFIs), other System institutions, and preferred stockholders jointly own AgFirst. As of year-end, the AgFirst District consisted of the Bank and nineteen District Associations. All nineteen were structured as ACA holding companies, with PCA and FLCA subsidiaries.

The Farm Credit Administration (FCA) is delegated authority by Congress to regulate the System Banks and associations. The FCA examines the activities of System institutions to ensure their compliance with the Farm Credit Act, FCA regulations, and safe and sound banking practices.

The Farm Credit Act also established the Farm Credit System Insurance Corporation (FCSIC) to administer the Farm Credit Insurance Fund (Insurance Fund). The Insurance Fund is required to be used: (1) to ensure the timely payment of principal and interest on Systemwide debt obligations (Insured Debt), (2) to ensure the retirement of protected borrower capital at par or stated value, and (3) for other specified purposes. The Insurance Fund is also available for discretionary uses by the FCSIC to provide assistance to certain troubled System institutions and to cover the operating expenses of the FCSIC. Each System Bank has been required to pay premiums, which may be passed on to the Associations, into the Insurance Fund until the assets in the Fund reach the "secure base amount." The secure base amount is defined in the Farm Credit Act as 2.0 percent of the aggregate insured obligations (adjusted to reflect the reduced risk on loans or investments guaranteed by federal or state governments) or such other percentage of the aggregate obligations as the FCSIC at its sole discretion determines to be actuarially sound. When the amount in the Insurance Fund exceeds the secure base amount, the FCSIC is required to reduce

premiums and may return excess funds above the secure base amount to System institutions. However, it must still ensure that reduced premiums are sufficient to maintain the level of the Insurance Fund at the secure base amount.

Premiums are charged based upon each System Bank's pro rata share of outstanding Insured Debt. Premiums of up to 20 basis points on average adjusted Insured Debt obligations can be assessed along with a risk surcharge of 10 basis points on nonaccrual loans and other-than-temporarily impaired investments. For 2019, 2018, and 2017, the premium was 9, 9, and 15 basis points, respectively. The premium will be 8 basis points for at least the first half of 2020.

AgFirst, in conjunction with other System Banks, jointly owns organizations that were created to provide a variety of services for the System:

- Federal Farm Credit Banks Funding Corporation (Funding Corporation) – provides for the issuance, marketing and processing of Systemwide Debt Securities using a network of investment dealers and dealer banks. The Funding Corporation also provides financial management and reporting services.
- FCS Building Association leases premises and equipment to the FCA.
- Farm Credit System Association Captive Insurance Company being a reciprocal insurer, provides insurance services to its member organizations.

In addition, The Farm Credit Council acts as a full-service federated trade association which represents the System before Congress, the Executive Branch and others, and provides support services to System institutions on a fee basis.

**Operations:** The Farm Credit Act sets forth the types of authorized lending activity and financial services that can be offered by the Bank, and the persons eligible to borrow.

The Associations borrow from the Bank and in turn may originate and service both long-term real estate mortgage and short- and intermediate-term loans to their members.

The Bank primarily lends to the District Associations in the form of a line of credit to fund the Associations' earning assets. These lines of credit (or Direct Notes) are collateralized by a pledge of substantially all of each Association's assets. The terms of the Direct Notes are governed by a lending agreement between the Bank and Association. Each advance is structured such that the principal cash flow, repricing characteristics, and underlying index (if any) of the advance match those of the assets being funded. By match-funding the Association loans, their exposure to interest rate risk is minimized.

In addition to providing loan funds, the Bank provides District Associations with banking and support services such as accounting, human resources, information systems, and marketing. The costs of these support services are included in the interest charges to the Associations, or in some cases billed directly to certain Associations that use a specific service.

The Bank is also authorized to provide, in participation with other lenders and the secondary market, credit, credit commitments, and related services to eligible borrowers. Eligible borrowers include farmers, ranchers, producers or harvesters of aquatic products, rural residents, and farm-related businesses. The Bank may also lend to OFIs qualified to engage in lending to eligible borrowers.

#### Note 2 — Summary of Significant Accounting Policies

The accounting and reporting policies of the Bank conform to accounting principles generally accepted in the United States of America (GAAP) and prevailing practices within the banking industry. The preparation of financial statements in conformity with GAAP requires the management of the Bank to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. Significant estimates are discussed in these footnotes, as applicable. Actual results may differ from these estimates.

The accompanying Financial Statements include the accounts of the Bank, and reflect the investments in and allocated earnings of the service organizations in which the Bank has partial ownership interests.

Certain amounts in the prior year 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.

- A. Cash and Cash Equivalents: Cash and Cash Equivalents include cash on hand and short-term investments with original maturities of three months or less. Certain highly liquid equity securities, such as money market funds, may also be included. At the most recent year-end, the Bank held \$441.1 million in cash in excess of insured amounts.
- B. Loans and Allowance for Loan Losses: The loan portfolios include originated wholesale loans (i.e. direct loans), purchased capital markets loans, and purchased rural residential mortgage loans.

Long-term real estate mortgage loans generally have original maturities up to 30 years. Substantially all short- and intermediate-term loans for agricultural production or operating purposes have maturities of 10 years or less.

Loans are carried at their principal amount outstanding adjusted for charge-offs, premiums, discounts, deferred loan fees or costs, and derivative instruments and hedging valuation adjustments, if any. Interest on loans is accrued and credited to interest income based upon the daily principal amount outstanding. The difference in the total investment in a loan and its principal amount is deferred as part of the carrying amount of the loan and the net difference is amortized over the life of the related loan as an adjustment to interest income using the interest method.

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 and are generally considered substandard or doubtful, which is in accordance with the loan rating model, as described below. Impaired loans include nonaccrual loans, restructured loans, and loans past due 90 days or more and still accruing interest. A loan is considered contractually past due when any principal repayment or interest payment required by the loan instrument is not received on or before the due date. A loan remains contractually past due until the entire amount past due, including principal, accrued interest, and penalty interest incurred as the result of past due status, is collected or otherwise discharged in full. A formal restructuring may also cure a past due status.

Loans are generally classified as nonaccrual when principal or interest is delinquent for 90 days or more (unless adequately secured and in the process of collection) or circumstances indicate that collection of principal and/or interest is in doubt. When a loan is placed in nonaccrual status, accrued interest deemed uncollectible is reversed (if accrued in the current year) and/or charged against the allowance for loan losses (if accrued in prior years).

When loans are in nonaccrual status, payments are applied against the recorded investment in the loan asset. If collection of the recorded investment in the loan is fully expected and the loan does not have a remaining unrecovered prior charge-off associated with it, the interest portion of payments received in cash may be recognized as interest income. Nonaccrual loans may be returned to accrual status when principal and interest are current, prior charge-offs have been recovered, the ability of the borrower to fulfill the contractual repayment terms is fully expected, and the loan is not classified "doubtful" or "loss." Loans are charged off at the time they are determined to be uncollectible.

In cases where the Bank makes certain monetary concessions to the borrower through modifications to the contractual terms of the loan, the loan is classified as a restructured loan. A restructured loan constitutes a troubled debt restructuring (TDR) if, for economic or legal reasons related to the debtor's financial difficulties, the Bank grants a concession to the debtor that it would not otherwise consider. If the borrower's ability to meet the revised payment schedule is uncertain, the loan is classified as a nonaccrual loan.

The allowance for loan losses is maintained 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 individual 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. The allowance for loan losses is a valuation account used to reasonably estimate loan losses as of the financial statement date. Determining the appropriate allowance for loan losses balance involves significant judgment about when a loss has been incurred and the amount of that loss.

The Bank considers the following factors, among others, when determining the allowance for loan losses:

- · Credit risk classifications,
- Collateral values,
- Risk concentrations,
- Weather-related, disease or other adverse conditions,
- · Current production and economic conditions, and
- Prior loan loss experience.

A specific allowance may be established for impaired loans. Impairment of these loans is measured based on the present value of expected future cash flows discounted at the loan's effective interest rate, the loan's observable market price, or fair value of the collateral if the loan is collateral dependent.

A general allowance may also be established to reflect estimated probable credit losses incurred in the remainder of the loan portfolio at the financial statement date, which excludes loans included under the specific allowance discussed above. A general allowance can be evaluated on a pool basis for those loans with similar characteristics. The level of the general allowance may be based on management's best estimate of the likelihood of default adjusted for other relevant factors reflecting the current environment.

Allowances for certain loan pools acquired from District Associations may incorporate the selling Association's methodologies for assigning general and/or specific allowances.

The credit risk rating methodology is a key component of the Bank's allowance for loan losses evaluation, and is generally incorporated into the institution's loan underwriting standards and internal lending limit. The Bank uses a two-dimensional loan rating model based on internally generated combined system risk rating guidance that incorporates a 14-point risk rating scale to identify and track the probability of borrower default and a separate scale addressing loss given default over a period of time. Probability of default is the probability that a borrower will experience a default within 12 months from the date of the determination of the risk rating. A default is considered to have

occurred if the lender believes the borrower will not be able to pay its obligation in full or the borrower is past due more than 90 days. The loss given default is management's estimate as to the anticipated economic loss on a specific loan assuming default has occurred or is expected to occur within the next 12 months.

Each of the ratings carries a distinct percentage of default probability. The 14-point risk rating scale provides for granularity of the probability of default, especially in the acceptable ratings. There are nine acceptable categories that range from a borrower of the highest quality to a borrower of minimally acceptable quality. The probability of default between 1 and 9 is very narrow and would reflect almost no default to a minimal default percentage. The probability of default grows significantly as a loan moves from a 9 to 10 (other assets especially mentioned) and grows more significantly as a loan moves to a substandard viable level of 11. A substandard non-viable rating of 12 indicates that the probability of default is almost certain. Loans risk rated 13 or 14 are generally written off.

C. Loans Held for Sale: Loans are classified as held for sale when there is intent to sell the loans within a reasonable period of time. Loans intended for sale are carried at the lower of cost or fair value.

Generally, only home loans that are to be sold on the secondary mortgage market through various lenders or into a securitization are held for sale.

- D. Other Property Owned (OPO): Other property owned, consisting of real estate, personal property and other assets acquired through a collection action, is recorded upon acquisition at fair value less estimated selling costs. Any initial reduction in the carrying amount of a loan to the fair value of the collateral received is charged to the allowance for loan losses. Revised estimates to the fair value less cost to sell are reported as adjustments to the carrying amount of the asset, provided that such adjusted value is not in excess of the carrying amount at acquisition. Income, expenses and carrying value adjustments related to other property owned are included in Losses (Gains) from Other Property Owned in the Statements of Income.
- E. Premises and Equipment: Land is carried at cost. Premises and equipment are carried at cost less accumulated depreciation. Depreciation is provided on the straight-line method over the estimated useful lives of the assets, which range from 3 to 40 years. Gains and losses on dispositions are reflected in current operations. Maintenance and repairs are charged to operating expense and improvements that extend the useful life of the asset are capitalized. Premises and equipment are evaluated for impairment whenever events or circumstances indicate that the carrying value of the asset may not be recoverable.

From time to time, assets classified as premises and equipment are transferred to held for sale for various reasons. These assets are carried in Other Assets at the lower of the recorded investment in the asset or fair value less estimated cost to sell based upon the property's appraised value at the date of transfer. Any writedown of property held for sale is recorded as a loss in the period identified.

F. Investments: The Bank holds investments and investment securities as described below.

Equity Investments in Other Farm Credit System Institutions
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 holds certain investment securities, as permitted under the FCA regulations. These investments are classified based on management's intention on the date of purchase and are generally recorded in the Balance Sheets as securities on the trade date.

Securities for which the Bank has the intent and ability to hold to maturity are classified as held-to-maturity (HTM) and carried at amortized cost. Investment securities classified as available-forsale (AFS) are carried at fair value with net unrealized gains and losses included as a component of other comprehensive income (OCI). Purchase premiums and discounts are amortized or accreted ratably over the term of the respective security using the interest method. The amortization of premiums on certain purchased callable debt securities that have explicit, noncontingent call features and that are callable at fixed prices on preset dates are amortized to the earliest call date.

#### Other Equity Securities

Any equity securities with a readily determinable fair value are carried at fair value with unrealized gains and losses included in earnings. Equity securities without a readily determinable fair value are carried at cost less any impairment. Certain equity securities with high turnover rates and high volume amounts, such as money market funds, may be considered cash equivalents but are subject to the accounting and disclosure requirements for investment securities.

#### Other Investments

As discussed in Note 8, *Fair Value Measurement*, certain investments, consisting primarily of mutual funds, are held in trust and investment accounts and are reported at fair value. Holding period gains and losses are included within Noninterest Income on the Statements of Income and the balance of these investments is included in Other Assets on the accompanying Balance Sheets.

#### **Impairment**

The Bank reviews all investments that are in a loss position in order to determine whether the unrealized loss, which is considered an impairment, is temporary or other-than-temporary. As mentioned above, changes in the fair value of AFS investments are reflected in OCI, unless the investment is deemed to be other than temporarily impaired. Impairment is considered to be other-thantemporary if the present value of cash flows expected to be collected from the debt security is less than the amortized cost basis of the security (any such shortfall is referred to as a credit loss). If the Bank intends to sell an impaired debt security or is more likely than not to be required to sell the security before recovery of its amortized cost basis less any current-period credit loss, the impairment is other-than-temporary and recognized currently in earnings in an amount equal to the entire difference between fair value and amortized cost. If a credit loss exists, but the Bank does not intend to sell the impaired debt security and is not more likely than not to be required to sell before recovery, the impairment is other-than-temporary and is separated into (i) the estimated amount relating to credit loss, and (ii) the amount relating to all other factors. Only the estimated credit loss amount is charged to current earnings, with the remainder of the loss amount recognized in OCI.

In subsequent periods, if the present value of cash flows expected to be collected is less than the amortized cost basis, the Bank will record an additional other-than-temporary impairment (OTTI) and adjust the yield of the security prospectively. The amount of total OTTI for an AFS security that previously was impaired is determined as the difference between its carrying amount prior to the determination of OTTI and its fair value.

#### Investment Income

Interest on investment securities, including amortization of premiums and accretion of discounts, is included in Interest Income. Realized gains and losses from the sales of investment securities are recognized in current earnings using the specific identification method.

Dividends from equity investments in other Farm Credit institutions are generally recorded as patronage income and included in Noninterest Income.

G. Debt: Any discount or premium resulting from cash or noncash debt transactions is not an asset or liability separable from the instrument that gives rise to it. Therefore, the discount or premium is reported in the balance sheet as a direct deduction from or addition to the face amount of the note. Direct expenses incurred in issuing debt and mandatorily redeemable preferred stock are deferred and amortized using the interest method over the term of the related indebtedness or mandatorily redeemable preferred stock. Debt issuance costs are presented in the Balance Sheets as a direct deduction from the carrying amount of the respective debt liability. All amortization and accretion of reductions or additions to the face amount of debt instruments is reported in Interest Expense.

The Bank issues both callable and noncallable debt instruments. A call feature is an agreement, stated in a financial instrument's terms, detailing how an issuance may be retired fully, or in part, before its contractual maturity date. The first call option date, and whether the instrument is continuously callable, or callable only on certain dates, is also explicitly stated. When a call option is exercised, it is accounted for as an extinguishment of debt. Any difference between the reacquisition price and the net carrying amount of the extinguished debt is recognized as losses or gains in current period earnings. Gains and losses are not amortized to future periods.

H. Employee Benefit Plans: Employees participate in District and multi-district sponsored benefit plans. These plans may include defined benefit final average pay retirement, defined benefit other postretirement benefits, and defined contribution plans.

#### **Defined Contribution Plans**

Substantially all employees are eligible to participate in a defined contribution plan, which qualifies as a 401(k) plan as defined by the Internal Revenue Code. Employee deferrals are not to exceed the maximum deferral as determined and adjusted by the Internal Revenue Service. Employer contributions to the plan are expensed as funded.

The Bank also offers a Farm Credit Benefits Alliance (FCBA) supplemental 401(k) plan for certain key employees. This plan is nonqualified. Employer contributions to the plan are expensed as funded.

Additional information may be found in Note 9, *Employee Benefit Plans*.

#### Multiemployer Defined Benefit Plans

Certain employees may participate in one or more defined benefit plans. The Plans are noncontributory and include eligible Bank and District employees. The "Projected Unit Credit" actuarial method is used for financial reporting purposes.

The Bank provides certain health care and life insurance benefits for retired employees (Other Postretirement Benefits) through a retiree healthcare plan. Substantially all employees are eligible for those benefits when they reach early retirement age while working for the Bank. Authoritative accounting guidance requires the accrual of the expected cost of providing these benefits to an employee, their beneficiaries and covered dependents during the years the employee renders service necessary to become eligible for benefits. This Other Postretirement Benefits plan is unfunded with expenses paid as incurred.

Since the foregoing plans are multiemployer, the Bank does not apply the provisions of Financial Accounting Standards Board (FASB) guidance on employers' accounting for defined benefit pension and other postretirement plans in its stand-alone financial statements. Rather, the effects of this guidance are reflected in the Annual Information Statement of the Farm Credit System.

Additional information may be found in Note 9, *Employee Benefit Plans*, and in the Notes to the Annual Information Statement of the Farm Credit System.

#### Single Employer Defined Benefit Plan

The Bank also sponsors a defined benefit plan for certain key employees. This plan is nonqualified; therefore, the associated liabilities are included in the Bank's Balance Sheets in Other Liabilities.

The foregoing defined benefit plan is considered single employer, therefore the Bank applies the provisions of FASB guidance on employers' accounting for defined benefit pension plans in its stand-alone financial statements.

Additional information may be found in Note 9, Employee Benefit Plans

 Income Taxes: The Bank is exempt from federal and other income taxes as provided in the Farm Credit Act.

The Bank evaluates tax positions taken in previous and current years according to FASB guidance. A tax position can result in a permanent reduction of income taxes payable, a deferral of income taxes otherwise currently payable to future years, or a change in the expected realizability of deferred tax assets. The term tax position also encompasses, but is not limited to, an entity's status, including its status as a pass-through or tax-exempt entity.

J. Derivative Instruments and Hedging Activity: The Bank may be party to derivative financial instruments, primarily interest rate swaps, which are principally used to reduce funding costs. The Bank may also enter into forward contracts to create a fixed purchase price. Derivatives are included in the Balance Sheets as assets and liabilities and reflected at fair value.

Changes in the fair value of a derivative are recorded in current period earnings or Accumulated Other Comprehensive Income (AOCI) depending on the risk being hedged. For fair value hedge transactions, which hedge the changes in the fair value of assets, liabilities, or firm commitments, changes in the fair value of the derivative will generally be offset by changes in the hedged item's fair value and reported in current earnings. For cash flow hedge transactions, which hedge the variability of future cash flows related to a variable-rate asset, liability, or a forecasted transaction, changes in the fair value of the derivative will generally be deferred and reported in AOCI. The gains and losses on the derivative that are deferred and reported in AOCI will be reclassified into earnings in the periods during which earnings are impacted by the variability of the cash flows of the hedged item. For derivatives not designated as hedging instruments, if any, the related change in fair value is recorded in current period earnings.

The Bank formally documents all relationships between hedging instruments and hedged items, as well as its risk management objective and strategy for undertaking various hedge transactions. This process includes linking all derivatives that are designated as fair value or cash flow hedges to (1) specific assets or liabilities on the balance sheet or (2) firm commitments or forecasted transactions. The Bank also formally assesses at the hedge's inception whether the derivatives that are used in hedging transactions will be highly effective in offsetting changes in the fair value or cash flows of hedged items and whether those derivatives may be expected to remain highly effective in future periods. The Bank uses regression or other statistical analyses to assess the effectiveness of its hedges. On an ongoing basis, effectiveness may be determined quantitatively using the foregoing methodology, or qualitatively if there has been no change to the hedging arrangement. The Bank discontinues hedge accounting prospectively when the Bank determines that a derivative has not been or is not expected to be effective as a hedge. For cash flow hedges, any remaining AOCI would be amortized into earnings over the remaining life of the original hedged item. For fair value hedges, changes in the fair value of the derivative would be

recorded in current period earnings. In all situations in which hedge accounting is discontinued and the derivative remains outstanding, the Bank will carry the derivative at its fair value on the balance sheet, recognizing changes in fair value in current period earnings.

The Bank may occasionally purchase a financial instrument in which a derivative instrument is embedded. Upon purchasing the financial instrument, the Bank assesses whether the economic characteristics of the embedded derivative are clearly and closely related to the economic characteristics of the remaining component of the financial instrument and whether a separate, non-embedded instrument with the same terms as the embedded instrument would meet the definition of a derivative instrument. When it is determined that (1) the embedded derivative possesses economic characteristics that are not clearly and closely related to the economic characteristics of the host contract and (2) a separate, stand-alone instrument with the same terms would qualify as a derivative instrument, the embedded derivative is separated from the host contract, carried at fair value, and may be designated as either a fair value or cash flow hedge. However, if the entire contract were to be measured at fair value, with changes in fair value reported in current earnings, or if the Bank could not reliably identify and measure the embedded derivative for purposes of separating that derivative from its host contract, the entire contract would be carried on the balance sheet at fair value and not be designated as a hedging instrument.

K. Valuation Methodologies: FASB guidance defines fair value 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. This guidance also establishes a fair value hierarchy, which requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. It prescribes three levels of inputs that may be used to measure fair value.

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 to the valuation methodology 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 to the valuation methodology 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 a third-party valuation or internal model pricing.

The Bank may use internal resources or third parties to obtain fair value prices. Quoted market prices are generally used when estimating fair values of any assets or liabilities for which observable, active markets exist.

A number of methodologies may be employed to value items for which an observable active market does not exist. Examples of these items include: impaired loans, other property owned, and certain derivatives, investment securities and other financial instruments. Inputs to these valuations can involve estimates and assumptions that require a substantial degree of judgment. Some of the assumptions used include, among others, discount rates, rates of return on assets, repayment rates, cash flows, default rates, costs of servicing, and liquidation values. The use of different assumptions could produce significantly different asset or liability values, which could have material positive or negative effects on results of operations.

Any transfers between fair value levels occur at the end of the period.

Additional information may be found in Note 8, Fair Value Measurement.

L. Off-Balance-Sheet Credit Exposures: The credit risk associated with commitments to extend credit and letters of credit is essentially the same as that involved with extending loans to customers and is subject to normal credit policies. Collateral may be obtained based on management's assessment of the customer's creditworthiness.

Unfunded commitments, and other commitments to extend credit, are agreements to lend to customers, generally having fixed expiration dates or other termination clauses that may require payment of a fee.

Letters of credit are commitments issued to guarantee the performance of a customer to a third party. These letters of credit are issued to facilitate commerce and typically result in the commitment being funded when the underlying transaction is consummated between the customer and third party.

M. Revenue Recognition: The Bank generates income from multiple sources.

#### Financial Instruments

The largest source of revenue for the Bank is interest income. Interest income is recognized on an accrual basis driven by nondiscretionary formulas based on written contracts, such as loan agreements or securities contracts. Credit-related fees, including letter of credit fees, finance charges and other fees are recognized in Noninterest Income when earned.

#### Contracts with Customers

The Bank maintains contracts with customers, primarily other System entities, to provide support services in various areas such as accounting, lending transactions, consulting, insurance, and information technology. As most of the contracts are to provide access to expertise or system capacity that the Bank maintains, there are no material incremental costs to fulfill these contracts that should be capitalized. The Bank also does not generally incur costs to obtain contracts. Revenue is recognized to reflect the transfer of goods and services to customers in an amount equal to the consideration the Bank receives or expects to receive.

#### Gains and Losses from Nonfinancial Assets

Any gains or losses on sales of Premises and Equipment and OPO are included as part of Noninterest Income. These gains and losses are recognized, and the nonfinancial asset is derecognized, when the Bank has entered into a valid contract with a noncustomer and transferred control of the asset. If the criteria to meet the definition of a contract have not been met, the Bank does not derecognize the nonfinancial asset and any consideration received is recognized as a liability. If the criteria for a contract are subsequently met, or if the consideration received is or becomes nonrefundable, a gain or loss may be recognized at that time.

N. Leases: In the course of normal operations, the Bank may enter into leases for various business purposes.

#### Lessee

Contracts entered into are evaluated at inception to determine if they contain a lease. Assets and liabilities are recognized on the Balance Sheets to reflect the rights and obligations created by any contracts that do. These contracts are then classified as either operating or finance leases.

Generally, leases are for terms of three to five years and may include options to extend or terminate the arrangement. Any options are assessed individually to determine if it is reasonably certain they will be exercised.

Right-of-use (ROU) assets represent the right to use an underlying asset for the lease term, and lease liabilities represent the obligation to make the payments arising from the lease. ROU assets and lease liabilities are initially recognized based on the present value of lease payments over the lease term. Lease expense for operating leases is recognized on a straight-line basis over the lease term. Lease expense for finance leases is recognized on a declining basis over the lease term.

ROU assets are included on the Balance Sheets in Premises and Equipment for finance leases and Other Assets for operating leases. Lease liabilities are included in Other Liabilities on the Balance Sheets. Leases with an initial term of 12 months or less are not recorded on the Balance Sheets and lease expense is recognized over the lease term.

#### Lessor

The Bank acts as lessor in certain contractual arrangements. The contracts relate to office space in an owned property and are considered operating leases. Generally, leases are for terms of three to five years and may include options to extend or terminate the arrangement.

Lease income is recognized on a straight-line basis over the lease term. Lease and nonlease components are accounted for separately in the Statements of Income. Any initial direct costs are deferred and recognized as an expense over the lease term on the same basis as lease income. Any taxes assessed by a governmental authority are excluded from consideration as variable payments.

Lease receivables and income are included in Accounts Receivable on the Balance Sheets and Building Lease Income in the Statements of Income.

O. Accounting Standards Updates (ASUs): In January 2020, the FASB issued ASU 2020-01 Investments—Equity Securities (Topic 321), Investments—Equity Method and Joint Ventures (Topic 323), and Derivatives and Hedging (Topic 815): Clarifying the Interactions between Topic 321, Topic 323, and Topic 815. The amendments clarify certain interactions between the guidance on accounting for certain equity securities under Topic 321, the guidance on accounting for investments under the equity method in Topic 323, and the guidance in Topic 815. The Update could change how an entity accounts for an equity security under the measurement alternative or a forward contract or purchased option to purchase securities that, upon settlement of the forward contract or exercise of the purchased option, would be accounted for under the equity method of accounting or the fair value option in accordance with Topic 825, Financial Instruments. The amendments are intended to improve current GAAP by reducing diversity in practice and increasing comparability of the accounting for these interactions. For public business entities, the amendments are effective for fiscal years beginning after December 15, 2020, and interim periods within those fiscal years. Early adoption is permitted, including early adoption in an interim period. Evaluation of any possible effects the guidance may have on the statements of financial condition and results of operations is in progress.

In December 2019, the FASB issued ASU 2019-12 Income Taxes (Topic 740): Simplifying the Accounting for Income Taxes. The amendments simplify the accounting for income taxes by removing the following exceptions:

 Exception to the incremental approach for intraperiod tax allocation when there is a loss from continuing operations

- and income or a gain from other items (for example, discontinued operations or other comprehensive income),
- Exception to the requirement to recognize a deferred tax liability for equity method investments when a foreign subsidiary becomes an equity method investment,
- Exception to the ability not to recognize a deferred tax liability for a foreign subsidiary when a foreign equity method investment becomes a subsidiary, and
- Exception to the general methodology for calculating income taxes in an interim period when a year-to-date loss exceeds the anticipated loss for the year.

The amendments also simplify the accounting for income taxes by doing the following:

- Requiring that an entity recognize a franchise tax (or similar tax) that is partially based on income as an income-based tax and account for any incremental amount incurred as a non-income-based tax,
- Requiring that an entity evaluate when a step up in the tax basis of goodwill should be considered part of the business combination in which the book goodwill was originally recognized and when it should be considered a separate transaction,
- Specifying that an entity is not required to allocate the consolidated amount of current and deferred tax expense to a legal entity that is not subject to tax in its separate financial statements; however, an entity may elect to do so (on an entity-by-entity basis) for a legal entity that is both not subject to tax and disregarded by the taxing authority,
- Requiring that an entity reflect the effect of an enacted change in tax laws or rates in the annual effective tax rate computation in the interim period that includes the enactment date, and
- Making minor codification improvements for income taxes related to employee stock ownership plans and investments in qualified affordable housing projects accounted for using the equity method.

For public business entities, the amendments in this Update are effective for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2020. Evaluation of any possible effects the guidance may have on the statements of financial condition and results of operations is in progress.

In November 2019, the FASB issued ASU 2019-10 Financial Instruments—Credit Losses (Topic 326), Derivatives and Hedging (Topic 815), and Leases (Topic 842). On the basis of feedback obtained from outreach with stakeholders and monitoring of implementation, the Board has gained a greater understanding about the implementation challenges encountered by all types of entities when adopting a major Update. The challenges are often magnified for private companies, smaller public companies, and not-for-profit organizations. In response to those issues and requests to defer certain major Updates not yet effective for all entities, the Board developed a philosophy to extend and simplify how effective dates are staggered between larger public companies (bucket one) and all other entities (bucket two). Credit Losses guidance in ASU 2016-13 will be effective for all bucket two entities for fiscal years beginning after December 15, 2022, including interim periods within those fiscal years.

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. Adoption of the guidance related to ASU 2016-01 and ASU 2017-12 is not expected to have an impact on the statements of financial condition or results of operations. Evaluation of any possible effects the ASU 2016-13 guidance may have on the statements of financial condition and results of operations is in progress.

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 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. The guidance will be adopted on a prospective basis in 2020 and is not expected to have a material impact on the statements of financial condition or results of operations.

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, and the remaining disclosures were adopted with the 2019 Annual Report.

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 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-forsale 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, 2022, 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.

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 are classified as either finance leases or operating leases. This distinction is relevant for the pattern of expense recognition in the income statement. Lessor accounting guidance is largely unchanged from the previous standard. 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 related to initial application of the guidance 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 \$(149) 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 3 — Loans and Allowance for Loan Losses

For a description of the Bank's accounting for loans, including impaired loans, and the allowance for loan losses, see Note 2, *Summary of Significant Accounting Policies*, subsection B, *Loans and Allowance for Loan Losses*, above.

Credit risk arises from the potential inability of an obligor to meet its repayment obligation which exists in outstanding loans. 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.

The credit risk management process begins with an analysis of the obligor's credit history, repayment capacity and financial position. Repayment capacity focuses on the obligor's ability to repay the obligation based on cash flows from operations or other sources of income, including non-farm income. Real estate mortgage loans must be secured by first liens on the real estate collateral. As required by

FCA regulations, each institution that makes loans on a secured basis must have collateral evaluation policies and procedures.

The credit risk rating process for loans uses a two-dimensional structure, incorporating a 14-point probability of default scale (see further discussion in Note 2, Summary of Significant Accounting Policies, subsection B, Loans and Allowance for Loan Losses, above) and a separate scale addressing estimated percentage loss in the event of default. The loan rating structure incorporates borrower risk and transaction risk. Borrower risk is the risk of loss driven by factors intrinsic to the borrower. The transaction risk or facility risk is related to the structure of a credit (tenor, terms, and collateral).

The Bank's loan portfolio, which includes purchased interests in loans, has been segmented by the following loan types as defined by the FCA:

- Direct Notes and loans to OFIs revolving lines of credit provided to financing institutions to fund the lending needs of their borrowers
- Real estate mortgage loans loans made to full-time or part-time
  farmers secured by first lien real estate mortgages with maturities
  from five to thirty years. These loans may be made only in
  amounts up to 85 percent of the appraised value of the property
  taken as security or up to 97 percent of the appraised value if
  guaranteed by a federal, state, or other governmental agency. The
  actual percentage of loan-to-appraised value when loans are made
  is generally lower than the statutory required percentage.
- Production and intermediate-term loans loans to full-time or part-time farmers that are not real estate mortgage loans. These loans fund eligible financing needs including operating inputs (such as labor, feed, fertilizer, and repairs), livestock, living expenses, income taxes, machinery or equipment, farm buildings, and other business-related expenses. Production loans may be made on a secured or unsecured basis and are most often made for a period of time that matches the borrower's normal production and marketing cycle, which is typically one year or less. Intermediate-term loans are made for a specific term, generally greater than one year and less than or equal to ten years.
- Loans to cooperatives loans for any cooperative purpose other than for communication, power, and water and waste disposal.
- Processing and marketing loans loans for operations to process or market the products produced by a farmer, rancher, or producer or harvester of aquatic products, or by a cooperative.
- Farm-related business loans loans to eligible borrowers that furnish certain farm-related business services to farmers or ranchers that are directly related to their agricultural production.
- Rural residential real estate loans loans made to individuals, who are not farmers, to purchase a single-family dwelling that will be the primary residence in open country, which may include a town or village that has a population of not more than 2,500 persons. In addition, the loan may be to remodel, improve, or repair a rural home, or to refinance existing debt. These loans are generally secured by a first lien on the property.
- Communication loans loans primarily to finance rural communication providers.
- Power loans loans primarily to finance electric generation, transmission and distribution systems serving rural areas.
- Water and waste disposal loans loans primarily to finance water and waste disposal systems serving rural areas.
- International loans primarily loans or credit enhancements to other banks to support the export of U.S. agricultural commodities or supplies. The federal government guarantees a substantial portion of these loans.
- Lease receivables the net investment for all finance leases such as direct financing leases, leveraged leases, and sales-type leases.
- Other (including Mission Related) additional investments in rural America approved by the FCA on a program or a case-bycase basis. Examples of such investments include partnerships with agricultural and rural community lenders, investments in rural economic development and infrastructure, and investments in obligations and mortgage securities that increase the availability of affordable housing in rural America.

A summary of loans outstanding follows:

	December 31,								
(dollars in thousands)		2019		2018		2017			
Direct Notes	\$	16,830,432	\$	16,414,045	\$	15,838,709			
Real estate mortgage		1,135,611		1,107,077		1,096,159			
Production and intermediate-term		1,089,174		1,137,422		1,123,633			
Loans to cooperatives		473,462		441,510		527,654			
Processing and marketing		1,091,959		977,274		763,024			
Farm-related business		62,595		51,393		71,471			
Communication		356,584		295,833		226,371			
Power and water/waste disposal		519,111		532,649		556,165			
Rural residential real estate		3,325,122		3,104,737		2,956,332			
International		76,775		71,141		52,637			
Lease receivables		2,917		385		6,752			
Loans to OFIs		142,384		134,387		131,572			
Other (including Mission Related)		5,533		8,028		8,681			
Total loans	\$	25,111,659	\$	24,275,881	\$	23,359,160			

A substantial portion of the Bank's loan portfolio consists of notes receivable from District Associations. As described in Note 1, *Organization and Operations*, 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, which further mitigates credit risk to 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, the Bank purchased \$608.1 million of residential mortgage loans from various System associations and sold \$1.9 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:

December 31, 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 Purchased Purchased Purchased Direct Notes 1,092,698 1,092,698 Real estate mortgage 928,422 245,058 456,642 157,797 1,385,064 402,855 751,733 282,692 589,825 298,008 1,639,566 547,931 Production and intermediate-term 265,239 77,971 553,178 553,178 77,971 Loans to cooperatives Processing and marketing 481,562 383,051 453,766 343,047 886,066 1,000 1,821,394 727,098 Farm-related business 45,819 3,127 15,000 5,000 65,819 3,127 474,208 117,239 474,208 117,239 Communication 576,547 Power and water/waste disposal 55,933 576,547 55,933 114,375 114,375 37,465 International 37,465 2,572 2,917 Lease receivables 345 5,580 Other (including Mission Related) 5,580 \$ 1,202,536 \$ 3,233,886 Total 2,215,688 \$ 1,858,781 \$ 1,189,074 1.000 6,638,648 3,062,317

	December 31, 2018															
		Within AgF	irst	District		Within Farm	Cre	dit System		Outside Farm	Cre	dit System		To	tal	
	P	articipations	l	Participations	F	Participations <b>Participations</b>	F	Participations	I	Participations	P	articipations		Participations	]	Participations
(dollars in thousands)		Purchased		Sold		Purchased		Sold		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		312,768		350,108		299,783		867,310		_		1,591,599		612,551
Farm-related business		46,458		_		_		_		5,000		-		51,458		-
Communication		_		119,032		415,116		_		_		_		415,116		119,032
Power and water/waste disposal		-		53,082		587,092				_		-		587,092		53,082
Rural residential real estate		145		_		_		_		_		_		145		_
International		-		34,127		105,375				_		-		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

December 31, 2017 Within Farm Credit System Within AgFirst District Outside Farm Credit System Total Participations **Participations** Participations **Participations Participations Participations** Participations **Participations** (dollars in thousands) Purchased Sold Purchased Sold Purchased Sold Purchased Sold Direct Notes 1,015,836 1,015,836 Real estate mortgage 740,241 99,921 354,871 1,095,112 145,542 45,621 1,659,358 Production and intermediate-term 747,486 323,438 689,174 200,016 222,698 523,454 62,825 591,369 591,369 62,825 Loans to cooperatives 651,368 Processing and marketing 277,271 302,906 316,193 836,019 1,416,196 335,175 7,387 132,807 79,006 Farm-related business 53,036 7,387 25,970 359,838 359,838 Communication 132,807 612,368 18,026 Power and water/waste disposal 54,654 594,342 54,654 157 Rural residential real estate 157 34,127 86,919 86,919 34,127 International 6,752 Lease receivables 6,752 Other (including Mission Related) 8,819 8,819 1,833,762 1,050,334 2,979,419 1,577,666 \$ 1,102,713 5,915,894 2,628,000

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:

	December 31, 2019											
(dollars in thousands)		Due Less Than 1 Year		Due 1 Through 5 Years		Due After 5 Years		Total				
Direct Notes	\$	540,690	\$	2,586,228	\$	13,703,514	\$	16,830,432				
Real estate mortgage		18,812		241,710		875,089		1,135,611				
Production and intermediate-term		168,998		601,723		318,453		1,089,174				
Loans to cooperatives		55,737		219,819		197,906		473,462				
Processing and marketing		76,644		563,729		451,586		1,091,959				
Farm-related business		5,474		28,655		28,466		62,595				
Communication		22,134		172,096		162,354		356,584				
Power and water/waste disposal		21,841		214,505		282,765		519,111				
Rural residential real estate		127,584		15,016		3,182,522		3,325,122				
International		_		5,607		71,168		76,775				
Lease receivables		_		2,617		300		2,917				
Loans to OFIs		_		134,856		7,528		142,384				
Other (including Mission Related)		_		23		5,510		5,533				
Total loans	\$	1,037,914	\$	4,786,584	\$	19,287,161	\$	25,111,659				
Percentage		4.13%		19.06%		76.81%		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 loans and related accrued interest classified under the FCA Uniform Loan Classification System as a percentage of total loans and related accrued interest receivable by loan type as of December 31:

	2019	2018	2017		2019	2018	2017
Direct Notes:				Power and water/waste disposal:			
Acceptable	91.96%	91.33%	100.00%	Acceptable	91.17%	100.00%	100.00%
OAEM	8.04	8.67	_	OAEM	5.72	-	_
Substandard/doubtful/loss	_	_	_	Substandard/doubtful/loss	3.11	_	-
	100.00%	100.00%	100.00%		100.00%	100.00%	100.00%
Real estate mortgage:				Rural residential real estate:			
Acceptable	95.57%	97.34%	97.62%	Acceptable	99.66%	99.68%	99.78%
OAEM	3.59	2.04	0.28	OAEM	_	_	_
Substandard/doubtful/loss	0.84	0.62	2.10	Substandard/doubtful/loss	0.34	0.32	0.22
	100.00%	100.00%	100.00%		100.00%	100.00%	100.00%
Production and intermediate-term:				International:			
Acceptable	96.37%	97.81%	96.17%	Acceptable	100.00%	100.00%	100.00%
OAEM	2.33	1.61	2.86	OAEM	_	_	_
Substandard/doubtful/loss	1.30	0.58	0.97	Substandard/doubtful/loss	_		_
	100.00%	100.00%	100.00%		100.00%	100.00%	100.00%
Loans to cooperatives:				Lease receivables:			
Acceptable	98.66%	98.31%	98.43%	Acceptable	100.00%	100.00%	100.00%
OAEM	_	_	_	OAEM	_	=	_
Substandard/doubtful/loss	1.34	1.69	1.57	Substandard/doubtful/loss	_		_
	100.00%	100.00%	100.00%		100.00%	100.00%	100.00%
Processing and marketing:				Loans to OFIs:			
Acceptable	98.56%	100.00%	100.00%	Acceptable	100.00%	100.00%	100.00%
OAEM	1.44	-	_	OAEM	_	_	-
Substandard/doubtful/loss	-	-	_	Substandard/doubtful/loss	_	_	-
	100.00%	100.00%	100.00%		100.00%	100.00%	100.00%
Farm-related business:				Other (including Mission Related):			
Acceptable	100.00%	100.00%	86.12%	Acceptable	100.00%	100.00%	100.00%
OAEM	-	_	-	OAEM	_	_	_
Substandard/doubtful/loss	_	_	13.88	Substandard/doubtful/loss	_	_	_
	100.00%	100.00%	100.00%		100.00%	100.00%	100.00%
Communication:				Total Loans:			
Acceptable	100.00%	96.18%	100.00%	Acceptable	93.93%	93.80%	99.60%
OAEM	_	3.82	_	OAEM	5.84	6.07	0.15
Substandard/doubtful/loss		_		Substandard/doubtful/loss	0.23	0.13	0.25
	100.00%	100.00%	100.00%		100.00%	100.00%	100.00%
	100.00%	100.00%	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:

	December 31, 2019											
(dollars in thousands)	hrough 89 Past Due		Days or Iore Past Due	Tot	al Past Due	L	t Past Due or ess Than 30 ays Past Due	7	Γotal Loans			
Direct Notes	\$ =	\$	=	\$	_	\$	16,876,144	\$	16,876,144			
Real estate mortgage	1,752		480		2,232		1,141,420		1,143,652			
Production and intermediate-term	8,511		_		8,511		1,085,457		1,093,968			
Loans to cooperatives			_		. –		474,352		474,352			
Processing and marketing	_		_		_		1,095,537		1,095,537			
Farm-related business	_		_		_		62,810		62,810			
Communication	_		_		_		356,779		356,779			
Power and water/waste disposal	_		_		_		521,278		521,278			
Rural residential real estate	44,981		6,072		51,053		3,281,945		3,332,998			
International					_		77,274		77,274			
Lease receivables	_		_		_		2,925		2,925			
Loans to OFIs	_		_		_		142,754		142,754			
Other (including Mission Related)	293		_		293		5,323		5,616			
Total	\$ 55,537	\$	6,552	\$	62,089	\$	25,123,998	\$	25,186,087			

	December 31, 2018											
(dollars in thousands)		nrough 89 Past Due		Days or ore Past Due	Tota	al Past Due	L	t Past Due or ess Than 30 ys Past Due	7	Fotal Loans		
Direct Notes	\$	_	\$	_	\$	_	\$	16,459,760	\$	16,459,760		
Real estate mortgage		1,419		790		2,209		1,112,905		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		

			De	cember 31, 201	17		
(dollars in thousands)	hrough 89 Past Due	Days or Iore Past Due	То	tal Past Due	L	t Past Due or ess Than 30 tys Past Due	Total Loans
Direct Notes	\$ =	\$ -	\$	=	\$	15,877,300	\$ 15,877,300
Real estate mortgage	1,701	3,438		5,139		1,097,541	1,102,680
Production and intermediate-term	1,481	714		2,195		1,125,718	1,127,913
Loans to cooperatives	_	_		_		528,662	528,662
Processing and marketing	_	_		_		765,412	765,412
Farm-related business	_	_		_		71,735	71,735
Communication	_	_		_		226,553	226,553
Power and water/waste disposal	_	_		_		558,562	558,562
Rural residential real estate	50,249	4,807		55,056		2,908,490	2,963,546
International	_	_		_		52,815	52,815
Lease receivables	_	_		_		6,766	6,766
Loans to OFIs	_	_		-		131,818	131,818
Other (including Mission Related)	_	_		_		8,785	8,785
Total	\$ 53,431	\$ 8,959	\$	62,390	\$	23,360,157	\$ 23,422,547

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

		Dec	ember 31,	
(dollars in thousands)	2019		2018	2017
Nonaccrual loans:				
Real estate mortgage	\$ 1,123	\$	1,460	\$ 7,761
Production and intermediate-term	_		453	2,364
Loans to cooperatives	6,352		7,492	_
Rural residential real estate	16,019		15,338	11,178
Total	\$ 23,494	\$	24,743	\$ 21,303
Accruing restructured loans:				
Real estate mortgage	\$ 440	\$	750	\$ 1,042
Production and intermediate-term	8,391		8,011	8,768
Rural residential real estate	2,852		2,929	1,866
Other (including Mission Related)	3,956		4,092	4,302
Total	\$ 15,639	\$	15,782	\$ 15,978
Accruing loans 90 days or more past due:				
Rural residential real estate	\$ _	\$	145	\$ _
Total	\$ _	\$	145	\$ _
Total nonperforming loans	\$ 39,133	\$	40,670	\$ 37,281
Other property owned	3,041		2,842	154
Total nonperforming assets	\$ 42,174	\$	43,512	\$ 37,435
Nonaccrual loans as a percentage of total loans Nonperforming assets as a percentage of total loans	 0.09%		0.10%	 0.09%
and other property owned	0.17%		0.18%	0.16%
Nonperforming assets as a percentage of capital	1.81%		1.96%	1.67%

The following table presents information relating to impaired loans (including accrued interest) as defined in Note 2, Summary of Significant Accounting Policies. 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.

		De	cember 31,	
(dollars in thousands)	2019		2018	2017
Impaired nonaccrual loans:				
Current as to principal and interest	\$ 12,090	\$	11,727	\$ 6,709
Past due	11,404		13,016	14,594
Total impaired nonaccrual loans	\$ 23,494	\$	24,743	\$ 21,303
Impaired accrual loans:				
Restructured	\$ 15,639	\$	15,782	\$ 15,978
90 days or more past due	-		145	-
Total impaired accrual loans	\$ 15,639	\$	15,927	\$ 15,978
Total impaired loans	\$ 39,133	\$	40,670	\$ 37,281
Additional commitments to lend	\$ 2,109	\$	1,687	\$ 

Additional impaired loan information at period end is summarized as follows:

(dollars in thousands)			Dece	mber 31, 2019			Y	ear Ended D	ecember	31, 2019
Impaired Loans		ecorded estment		Unpaid Principal Balance	-	Related lowance	In	verage npaired Loans	Reco	st Income gnized on red Loans
With a related allowance for credi	t losses:									
Real estate mortgage	\$	106	\$	105	\$	14	\$	105	\$	_
Production and intermediate-term		_		-		_		_		_
Loans to cooperatives		6,352		7,433		1,053		6,984		5
Processing and marketing		_		_		_		_		_
Rural residential real estate		3,879		3,819		176		3,499		_
Other (including Mission Related)		3,956		3,958		92		4,028		249
Total	\$	14,293	\$	15,315	\$	1,335	\$	14,616	\$	254
With no related allowance for cred	lit losses:									
Real estate mortgage	\$	1,457	\$	1,452	\$	_	\$	1,731	\$	216
Production and intermediate-term		8,391		16,204		_		8,628		980
Loans to cooperatives		_		_		_		_		-
Processing and marketing		-		_		-		48		-
Rural residential real estate		14,992		14,820		-		14,552		784
Other (including Mission Related)		-		_		-		_		-
Total	\$	24,840	\$	32,476	\$	-	\$	24,959	\$	1,980
Total:										
Real estate mortgage	\$	1,563	\$	1,557	\$	14	\$	1,836	\$	216
Production and intermediate-term		8,391		16,204		_		8,628		980
Loans to cooperatives		6,352		7,433		1,053		6,984		5
Processing and marketing		_		_		_		48		-
Rural residential real estate		18,871		18,639		176		18,051		784
Other (including Mission Related)		3,956		3,958		92		4,028		249
Total	\$	39,133	\$	47,791	\$	1,335	\$	39,575	\$	2,234

(dollars in thousands)			December 31, 2018 Year Ended December 31, 2018							
Impaired Loans		ecorded restment		Unpaid Principal Balance	-	Related lowance	In	verage ipaired Loans	Interest Income Recognized on Impaired Loans	
With a related allowance for credit	t 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 losses:									
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:										
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

(dollars in thousands)			Dece	mber 31, 2017			Ye	ear Ended I	December	31, 2017
Impaired Loans		ecorded restment		Unpaid Principal Balance	Related Allowance		Im	verage paired Loans	Reco	st Income gnized on red Loans
With a related allowance for credi	t losses:									
Real estate mortgage	\$	182	\$	182	\$	25	\$	126	\$	-
Production and intermediate-term		169		169		33		148		_
Rural residential real estate		2,820		2,820		495		57		_
Other (including Mission Related)		4,302		4,290		153		4,330		267
Total	\$	7,473	\$	7,461	\$	706	\$	4,661	\$	267
With no related allowance for cred	lit losses:									
Real estate mortgage	\$	8,621	\$	12,045	\$	_	\$	8,902	\$	297
Production and intermediate-term		10,963		19,358		_		13,236		1,964
Rural residential real estate		10,224		10,057		_		9,454		396
Other (including Mission Related)		_		_		_		_		_
Total	\$	29,808	\$	41,460	\$	-	\$	31,592	\$	2,657
Total:										
Real estate mortgage	\$	8,803	\$	12,227	\$	25	\$	9,028	\$	297
Production and intermediate-term		11,132		19,527		33		13,384		1,964
Rural residential real estate		13,044		12,877		495		9,511		396
Other (including Mission Related)		4,302		4,290		153		4,330		267
Total	\$	37,281	\$	48,921	\$	706	\$	36,253	\$	2,924

Unpaid principal balance represents the contractual principal balance of the loan.

A summary of changes in the allowance for loan losses and period-end recorded investment in loans is as follows:

(dollars in thousands)	Di	irect Notes		teal Estate Mortgage		roduction and ermediate- term	Ag	ribusiness*	c	Communication	Wa	ower and ater/Waste Disposal		Rural esidential eal Estate	Int	ernational	(	Other**		Total
Activity related to the allowance from		losses:																		
Balance at December 31, 2018	\$	-	\$	1,518	\$	2,614	\$	6,959	\$	784	\$	794	\$	4,808	\$	134	\$	438	\$	18,049
Charge-offs		-		-		-		-		-		-		(39)		-		-		(39)
Recoveries		-		-		777		-		_		-		180		-		-		957
Provision for loan losses				149		57		(1,847)	_	(13)		644		97		3		(25)		(935)
Balance at December 31, 2019	\$	_	\$	1,667	\$	3,448	\$	5,112	\$	771	\$	1,438	\$	5,046	\$	137	\$	413	\$	18,032
Balance at December 31, 2017	\$	-	\$	1,635	\$	3,040	\$	3,633	\$	744	\$	1,128	\$	3,908	\$	28	\$	265	\$	14,381
Charge-offs		-		-		(49)		-		-		-		(160)		-		-		(209)
Recoveries		-		-		267		62		-		-		6		-		-		335
Provision for loan losses		_		(117)		(644)		3,264		40		(334)		1,054		106		173		3,542
Balance at December 31, 2018	\$	_	\$	1,518	\$	2,614	\$	6,959	\$	784	\$	794	\$	4,808	\$	134	\$	438	\$	18,049
Balance at December 31, 2016	\$	_	\$	2,569	\$	3,039	\$	3,287	\$	899	\$	1,997	\$	2,688	\$	58	\$	246	\$	14,783
Charge-offs		_		_		_		_		-		-		(177)		-		-		(177)
Recoveries		_		34		292		_		-		-		_		-		-		326
Provision for loan losses		-		(935)		(324)		346		(155)		(869)		1,397		(30)		19		(551)
Loan type reclassification		_		(33)		33		_				-		_		_		-		
Balance at December 31, 2017	\$	-	\$	1,635	\$	3,040	\$	3,633	\$	744	\$	1,128	\$	3,908	\$	28	\$	265	\$	14,381
Allowance on loans evaluated for impa	airmen	ıt:																		
Individually	\$	-	\$	14	\$	-	\$	1,053	\$	_	\$	-	\$	176	\$	-	\$	92	\$	1,335
Collectively		_		1,653		3,448		4,059		771		1,438		4,870		137		321		16,697
Balance at December 31, 2019	\$	_	\$	1,667	\$	3,448	\$	5,112	\$	771	\$	1,438	\$	5,046	\$	137	\$	413	\$	18,032
Individually	\$	-	\$	_	\$	_	\$	3,951	\$	_	\$	-	\$	718	\$	-	\$	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
Individually	\$	_	\$	25	\$	33	\$	_	\$	_	\$	_	\$	495	\$	_	\$	153	\$	706
Collectively		-		1,610		3,007		3,633		744		1,128		3,413		28		112		13,675
Balance at December 31, 2017	\$	-	\$	1,635	\$	3,040	\$	3,633	\$	744	\$	1,128	\$	3,908	\$	28	\$	265	\$	14,381
Recorded investment in loans evaluate	ed for i	mpairment:																		
Individually	\$	16,876,144	\$	158,497	\$	8,371	\$	6,352	\$	_	\$	_	\$	1,039,294	\$	_	\$	3,956	\$	18,092,614
Collectively				985,155		1,085,597		1,626,347		356,779		521,278		2,293,704		77,274		147,339		7,093,473
Ending balance at December 31, 2019	\$	16,876,144	\$	1,143,652	\$	1,093,968	\$	1,632,699	\$	356,779	\$	521,278	\$	3,332,998	\$	77,274	\$	151,295	\$	25,186,087
Individually	s	16,459,760	\$	156,824	s	8,464	\$	7,494	\$	_	\$	_	s	1.287.215	s	_	s	4.092	\$	17,923,849
Collectively	Ψ		Ψ	958,290	Ψ	1,133,940	Ψ	1,466,845	ψ	295,908	Ψ	534,774	Ψ	1,824,844	Ψ	71,650	Ψ	139,143	Ψ	6,425,394
Ending balance at December 31, 2018	\$	16,459,760	\$	1,115,114	\$	1,142,404	\$	1,474,339	\$	295,908	\$	534,774	\$	3,112,059	\$	71,650	\$		\$	24,349,243
Individually	s	15,877,300	\$	149,853	\$	13,102	\$	_	\$	_	\$	_	S	1,422,934	s	_	\$	4.302	\$	17,467,491
Collectively	Ψ		Ψ	952,827	Ψ	1,114,811	Ψ	1,365,809	ψ	226,553	Ψ	558,562	Ψ	1,540,612	Ψ	52,815	Ψ	143,067	Ψ	5,955,056
Ending balance at December 31, 2017	\$	15,877,300	\$	1,102,680	\$	1,127,913	\$	1,365,809	\$	226,553	\$	558,562	\$	2,963,546	\$	52,815	\$	147,369	\$	23,422,547
Ending balance at December 31, 2017	φ	13,077,300	φ	1,102,000	φ	1,127,713	φ	1,505,009	ψ	220,333	φ	330,302	φ	2,703,340	Ψ	32,013	Ψ	177,507	φ	23,722,347

<sup>\*</sup>Includes the loan types: Loans to cooperatives, Processing and marketing, and Farm-related business.
\*\*Includes Loans to OFIs, Lease receivables, and Other loans (including Mission Related).

To mitigate risk of loan losses, the Bank and Associations may enter into guarantee arrangements with certain government-sponsored enterprises (GSEs), including the Federal Agricultural Mortgage Corporation (Farmer Mac), and state or federal agencies. These guarantees generally remain in place until the loans are paid in full or expire and give the Bank or the Association the right to be reimbursed for losses incurred or to sell designated loans to the guarantor in the event of default (typically four months past due), subject to certain conditions. The guaranteed balance of designated loans under these agreements was \$2.877 billion, \$3.042 billion, and \$3.201 billion at December 31, 2019, 2018, and 2017, respectively. Fees paid for such guarantee commitments totaled \$4.5 million, \$5.0 million, and \$5.4 million for 2019, 2018, and 2017, respectively. These amounts are classified as noninterest expense.

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 premodification and post-modification outstanding recorded investment and the effects of modifications that occurred during the periods presented. The tables do not include any purchased credit impaired loans.

(dollars in thousands)		Ye	ar Ende	d Decemb	er 31,	2019		
Outstanding Recorded Investment	nterest ncessions	rincipal ncessions		ther cessions		Total	Charg	e-offs
Pre-modification: Production and intermediate-term Loans to cooperatives Rural residential real estate	\$ - - 1,273	\$ 781 9,364 186	\$	- - -	\$	781 9,364 1,459		
Total	\$ 1,273	\$ 10,331	\$	_	\$	11,604		
Post-modification: Production and intermediate-term Loans to cooperatives	\$ =	\$ 781 9,240	\$	=	\$	781 9.240	\$	-
Rural residential real estate	1,347	189		_		1,536		_
Total	\$ 1,347	\$ 10,210	\$	_	\$	11,557	\$	

(dollars in thousands)		Ye	ar End	ed Decembe	er 31	, 2018		
Outstanding Recorded Investment	terest cessions	rincipal ncessions		Other cessions		Total	Cha	rge-offs
Pre-modification:								
Real estate mortgage	\$ 69	\$ 5,953	\$	_	\$	6,022		
Production and intermediate-term	_	169		_		169		
Loans to cooperatives	_	12,663		_		12,663		
Rural residential real estate	232	1,086		_		1,318		
Other (including Mission Related)	_	34		_		34		
Total	\$ 301	\$ 19,905	\$	_	\$	20,206		
Post-modification:								
Real estate mortgage	\$ 69	\$ 5,836	\$	_	\$	5,905	\$	_
Production and intermediate-term	_	95		_		95		(49)
Loans to cooperatives	_	12,593		_		12,593		
Rural residential real estate	240	1,115		_		1,355		-
Other (including Mission Related)	-	34		-		34		-
Total	\$ 309	\$ 19,673	\$	-	\$	19,982	\$	(49)

(dollars in thousands)		Ye	, 2017					
Outstanding Recorded Investment	nterest ncessions	rincipal ncessions	-	ther essions		Total	Charg	ge-offs
Pre-modification:								
Real estate mortgage	\$ 103	\$ _	\$	_	\$	103		
Rural residential real estate	1,036	132		-		1,168		
Total	\$ 1,139	\$ 132	\$	-	\$	1,271		
Post-modification:								
Real estate mortgage	\$ 106	\$ _	\$	_	\$	106	\$	_
Rural residential real estate	1,132	135		_		1,267		_
Total	\$ 1,238	\$ 135	\$	_	\$	1,373	\$	_

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.

			Year End	ed December 3	1,	
(dollars in thousands)		2019		2018		2017
Defaulted troubled debt restructuring	igs:					
Real estate mortgage	\$	_	\$	66	\$	_
Rural residential real estate		1,405		764		619
Total	\$	1,405	\$	830	\$	619

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

		To	tal TDRs			Nonac	ccrual TDR	Rs	
		Dec	ember 31,			Dec	ember 31,		
(dollars in thousands)	2019		2018	2017	2019		2018		2017
Real estate mortgage	\$ 643	\$	914	\$ 7,363	\$ 203	\$	164	\$	6,321
Production and intermediate-term	8,437		8,601	9,606	46		590		838
Loans to cooperatives	5,817		6,951	_	5,817		6,951		_
Rural residential real estate	5,526		4,795	3,757	2,674		1,866		1,891
Other (including Mission Related)	3,956		4,092	4,302	-		-		-
Total	\$ 24,379	\$	25,353	\$ 25,028	\$ 8,740	\$	9,571	\$	9,050
Additional commitments to lend	\$ 2,109	\$	1,687	\$ =	 				

The following table presents foreclosure information as of period end:

(dollars in thousands)	December 31, 2019					
Carrying amount of foreclosed residential real estate properties held as a						
result of obtaining physical possession	\$	465				
Recorded investment of consumer mortgage loans secured by residential						
real estate for which formal foreclosure proceedings are in process	\$	1,962				

#### Note 4 — 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.

#### 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. 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 U.S. 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 AFS 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 December 31, 2019, 2018, and 2017 all of the Bank's non-agency CMO and ABS securities were rated in the top category by at least one of the NRSROs.

HTM investments consist of Mission Related Investments, certain US Government Agency Guaranteed securities, and Rural America Bond (RAB) pilot programs.

At December 31, 2017, the Bank also held Rural Housing Mortgage-Backed Securities (RHMS) as HTM investments. RHMS must be fully guaranteed by a government agency or government sponsored enterprise. RABs are private placement securities, which generally have some form of credit enhancement. During 2018, the FCA approved the Bank's request to include its HTM RHMS securities, which totaled approximately \$341.4 million at December 31, 2018, in its liquidity portfolio. The Bank then reclassified these securities, all of which had short remaining tenors, to AFS.

In its Conditions of Approval for the program, the FCA 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. The FCA requires System institutions to provide notification when a security becomes ineligible. At December 31, 2019, the Bank held three RABs with a fair value totaling \$557 thousand whose credit quality had deteriorated beyond the program limits

Effective December 31, 2014, the FCA ended each pilot program approved after 2004 as part of the Investment in Rural America initiative. Each institution participating in such programs may continue to hold its investment 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 December 31, 2019, the Bank held \$42.7 million in U.S. Treasury securities for that purpose. The remainder of the compensating balance is held in cash in a demand deposit account. These securities are excluded when calculating the amount of eligible liquidity investments.

At December 31, 2017, 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 Sheets and Statements of Cash Flows. There were no investments that met this criteria at December 31, 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 each period end follows:

	December 31, 2019													
(dollars in thousands)	1	Amortized Cost	Ur	Gross realized Gains	U	Gross Inrealized Losses		Fair Value	Yield					
U.S. Govt. Treasury Securities	\$	143,260	\$	581	\$	(2)	\$	143,839	2.04%					
U.S. Govt. Guaranteed		4,495,273		60,110		(15,996)		4,539,387	2.60					
U.S. Govt. Agency Guaranteed		2,465,080		16,581		(11,146)		2,470,515	2.32					
Non-Agency ABSs		739,631		2,343		(146)		741,828	2.16					
Total	\$	7,843,244	\$	79,615	\$	(27,290)	\$	7,895,569	2.46%					

	December 31, 2018													
(dollars in thousands)	Amortized Cost	Gross Unrealized 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%									

				Decen	nber	31, 2017			
(dollars in thousands)	Α	Amortized Cost	Un	Gross realized Gains	Gross Unrealized Losses		Fair Value		Yield
U.S. Govt. Treasury Securities	\$	490,570	\$	2	\$	(475)	\$	490,097	1.31%
U.S. Govt. Guaranteed		4,536,232		35,601		(36,620)		4,535,213	2.06
U.S. Govt. Agency Guaranteed		2,022,077		6,618		(21,852)		2,006,843	1.90
Non-Agency ABSs		634,752		84		(3,384)		631,452	1.60
Total	\$	7,683,631	\$	42,305	\$	(62,331)	\$	7,663,605	1.93%

## **Held-to-maturity**

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

				1, 2019					
(dollars in thousands)	An	nortized Cost	Un	Gross realized Gains	Uni	Gross realized osses	Fair Value	Yield	
U.S. Govt. Agency Guaranteed	\$	1,239	\$	_	\$	(26)	\$ 1,213	3.41%	
RABs and Other		36,027		3,620		(18)	39,629	6.07	
Total	\$	37,266	\$	3,620	\$	(44)	\$ 40,842	5.99%	

		December 31, 2018													
(dollars in thousands)	Aı	nortized Cost	Un	Gross realized Gains	Un	Gross realized Losses		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%						

	December 31, 2017												
A		Ur	realized	Uı			Fair Value	Yield					
\$	401,810	\$	7,438			\$	403,082	3.25%					
	56,813		3,628		(183)		60,258	6.68					
\$	458,623	\$	11,066	\$	(6,349)	\$	463,340	3.68%					
		56,813	Amortized Un Cost \$ 401,810 \$ 56,813	Amortized Cost Unrealized Gains \$ 401,810 \$ 7,438 56,813 3,628	Amortized Cost Unrealized Gains \$ 401,810 \$ 7,438 \$ 56,813 \$ 3,628	Amortized Cost         Unrealized Gains         Unrealized Losses           \$ 401,810         \$ 7,438         \$ (6,166)           56,813         3,628         (183)	Amortized Cost         Gross Unrealized Gains         Gross Unrealized Losses           \$ 401,810         \$ 7,438         \$ (6,166)         \$ 56,813         \$ 3,628         (183)	Amortized Cost         Gross Unrealized Gains         Gross Unrealized Losses         Fair Value           \$ 401,810         \$ 7,438         \$ (6,166)         \$ 403,082           56,813         3,628         (183)         60,258					

Proceeds from sales and realized gains and losses on all sales of investment securities are as follows:

	Year Ended December 31,												
(dollars in thousands)		2019		2018		2017							
Proceeds from sales	\$	_	\$ 1	1,718	\$	77,153							
Realized gains	\$	_	\$	14	\$	788							
Realized losses	\$	_	\$	(1)	\$	(1.046)							

A summary of the contractual maturity, estimated fair value, and amortized cost of investment securities at December 31, 2019, follows:

#### Available-for-sale

		1 Year Less		Due After 1 Year Through 5 Years		Due After Through		Due After 10 Years				То	tal
(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	\$ 77,511	2.12 %	\$ 66,328	1.94 %	\$	-	- %	\$	_	- %	\$	143,839	2.04 %
U.S. Govt. Guaranteed	_	_	36,764	2.28		254,663	2.68		4,247,960	2.59		4,539,387	2.60
U.S. Govt. Agency Guaranteed	-	-	216,562	2.19		131,597	2.21		2,122,356	2.34		2,470,515	2.32
Non-Agency ABSs	20,678	1.97	658,845	2.16		62,305	2.14		_	-		741,828	2.16
Total fair value	\$ 98,189	2.09 %	\$ 978,499	2.16 %	\$	448,565	2.47 %	\$	6,370,316	2.51 %	\$	7,895,569	2.46 %
Total amortized cost	\$ 98,023		\$ 976,470		\$	445,753		\$	6,322,998		\$	7,843,244	

#### **Held-to-maturity**

		Due in or l	1 Year Less	Due After 1 Year Through 5 Years			Due After Through		Due After	· 10 Years	Total		
(dollars in thousands)	A	mount	Weighted Average Yield	Amount	Weighted Average Yield		Amount	Weighted Average Yield	Amount	Weighted Average Yield		Amount	Weighted Average Yield
U.S. Govt. Agency Guaranteed	\$	-	- %	\$ -	-%	\$	-	- %	\$ 1,239	3.41 %	\$	1,239	3.41 %
RABs and Other		_	-	14,703	6.25		_	_	21,324	5.95		36,027	6.07
Total amortized cost	\$	-	- %	\$ 14,703	6.25 %	\$	_	- %	\$ 22,563	5.81 %	\$	37,266	5.99 %
Total fair value	\$	-		\$ 15,407		\$	-		\$ 25,435		\$	40,842	

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 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.

				Dece	mb	er 31, 2019						
	Less					onths						
	12 N	Iont	hs	Or	Gr	eater	T	otal				
	Fair	1	Unrealized	Fair		Unrealized	Fair		Unrealized			
(dollars in thousands)	Value		Losses	Value		Losses	Value		Losses			
U.S. Govt. Treasury Securities	\$ 14,972	\$	(2)	\$ -	\$	_	14,972	2 \$	(2)			
U.S. Govt. Guaranteed	947,579		(6,832)	1,103,003		(9,164)	2,050,582	2	(15,996)			
U.S. Govt. Agency Guaranteed	824,382		(4,078)	879,926		(7,094)	1,704,308	3	(11,172)			
Non-Agency ABSs	78,037		(108)	99,098		(38)	177,135	5	(146)			
RABs and Other	_		-	272		(18)	272	2	(18)			
Total	\$ 1,864,970	\$	(11,020)	\$ 2,082,299	\$	(16,314) \$	3,947,269	\$	(27,334)			

	December 31, 2018													
	Less Than 12 Months							onths eater	Total					
(dollars in thousands)		Fair Value	1	Unrealized Losses		Fair Value		Unrealized Losses		Fair Value		Unrealized Losses		
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)		

	December 31, 2017												
		Less Than 12 Months				12 Months Or Greater				Total			
(dollars in thousands)		Fair Value		Unrealized Losses		Fair Value	U	nrealized Losses		Fair Value		Unrealized Losses	
U.S. Govt. Treasury Securities	\$	413,053	\$	(182)	\$	27,193	\$	(293)	\$	440,246	\$	(475)	
U.S. Govt. Guaranteed		1,356,044		(14,059)		1,415,892		(22,561)		2,771,936		(36,620)	
U.S. Govt. Agency Guaranteed		334,739		(1,454)		1,380,697		(26,564)		1,715,436		(28,018)	
Non-Agency ABSs		438,392		(2,569)		162,935		(815)		601,327		(3,384)	
RABs and Other		341		_		3,450		(183)		3,791		(183)	
Total	\$	2,542,569	\$	(18,264)	\$	2,990,167	\$	(50,416)	\$	5,532,736	\$	(68,680)	

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 OTTI analyses, on its investment securities 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 credit worthiness 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 held in the Bank's portfolio were determined to be other-than-temporarily impaired at December 31, 2019, 2018, or 2017.

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 2018 and 2017, the Bank also held certain equity investments in Money Market funds. The following table summarizes gains (losses) for the period related to these equity securities:

	For the Year Ended December 31,								
(dollars in thousands)		2019		2018		2017			
Net gains (losses) on equity securities									
Net gains (losses) recognized	\$	_	\$	1,662	\$	256			
Less realized net gains (losses)		_		1,662		167			
Unrealized gains (losses)	\$	_	\$	_	\$	89			

#### Note 5 — Real Estate and Other Property

#### Premises and Equipment

Premises and equipment consisted of the following:

	December 31,								
(dollars in thousands)		2019 2018				2017			
Land	\$	12,217	\$	12,169	\$	12,169			
Buildings and improvements		44,950		43,430		42,804			
Furniture and equipment		48,089		50,107		47,088			
Work in progress		787		207		2,485			
		106,043		105,913		104,546			
Less: accumulated depreciation		51,824		50,048		45,177			
Total	\$	54,219	\$	55,865	\$	59,369			

#### Other Property Owned

Net losses (gains) from OPO consisted of the following:

	December 31,						
(dollars in thousands)		2019	2018		2017		
Losses (gains) on sale, net	\$	8	\$	39	\$	(10)	_
Carrying value adjustments		66		83		577	
Operating (income) expense, net		76		294		(5)	
Net total	\$	150	\$	416	\$	562	

There were no deferred gains on sales of OPO at December 31, 2019, 2018 and 2017.

#### Note 6 — 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. The System Banks and the Funding Corporation have entered into the Third Amended and Restated Market Access Agreement (MAA), which establishes criteria and procedures for the banks to provide certain information and, under certain circumstances, for restricting or prohibiting an individual bank's participation in Systemwide debt issuances, thereby reducing other System Banks' exposure to statutory joint and several liabilities. At December 31, 2019, AgFirst was in compliance with the conditions of participation for the issuances of Systemwide Debt Securities.

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 recorded liability for outstanding Systemwide Debt Securities by maturity.

December 31, 2019

		Bonds	1		Discount	Notes		Total			
Maturities	Weighted Average Amortized Interest Cost Rate		Interest	Weighted Average Amortized Interest Cost Rate				Amortized Cost			
					(dollars in thou				Rate		
2020	\$	7,643,298	1.79%	\$	4,432,488	2.07%	\$	12,075,786	1.89%		
2021		6,517,949	1.79			_		6,517,949	1.79		
2022		3,409,162	1.88		_	-		3,409,162	1.88		
2023		2,171,002	2.03		_	-		2,171,002	2.03		
2024		1,881,932	2.05		_	-		1,881,932	2.05		
2025 and after		5,667,936	2.51		_	-		5,667,936	2.51		
Total	\$	27,291,279	1.99%	\$	4,432,488	2.07%	\$	31,723,767	2.00%		

Discount notes are issued with maturities of one year or less. The weighted average maturity of discount notes at period end was 131 days.

Systemwide debt includes callable bonds consisting of the following as of the most recent year-end:

An	nortized Cost	First Call Date	Year of Maturity
(dolla	ars in thousands)		
\$	17,527,985	2020	2020 - 2034
	4,990	2022	2027
\$	17,532,975	Total	

Most callable debt may be called on the first call date and any time thereafter.

As described in Note 1, Organization and Operations, the Insurance Fund is available to ensure the timely payment of principal and interest on Systemwide Debt Securities (Insured Debt) of System Banks to the extent net assets are available in the Insurance Fund and not designated for specific use.

## Note 7 — Shareholders' Equity

Descriptions of the Bank's capitalization requirements, protection mechanisms, regulatory capitalization requirements and restrictions, and equities are provided below:

A. Description of Equities: In accordance with the Farm Credit Act and the Bank's capitalization bylaws (Bylaws), the Bank is authorized to issue and have outstanding Classes B, C, D, and E Common Stock, Participation Certificates, Preferred Stock, and other classes of equity as may be provided for in the Bylaws. All Common Stock and Participation Certificates have a par or face value of five dollars per share.

The Bank had the following shares of common equities outstanding at December 31, 2019:

Shares Outstanding (dollars in thousands)

	Protected		Aggregate
Class	Status	Number	Par Value
B Common/Non-OFI	No	1,263,697	\$ 6,318
C Common/Voting	No	57,525,652	287,629
D Common/Nonvoting	No	5,309,244	26,546
E Common/Nonvoting	No	_	_
Participation Certificates/Nonvoting	No	956,961	4,785
Total Capital Stock and Participation C	Certificates	65,055,554	\$ 325,278

B. Perpetual Preferred Stock: On June 8, 2007, AgFirst issued \$250.0 million of Class B Perpetual Non-Cumulative Fixed-to-Floating Rate Subordinated Preferred Stock, Series 1. Dividends on the stock are non-cumulative and are payable quarterly in arrears on the 15th day of March, June, September, and December in each year, at an annual rate equal to 3-Month U.S. dollar (USD) LIBOR plus 1.13 percent. In the event dividends are not declared on the Class B, Series 1 Preferred Stock for payment on any dividend payment date, then such dividends

shall not accumulate and shall cease to accrue and be payable. The stock may be redeemed on June 15th on any five-year anniversary of its year of issuance at a price of \$1 thousand per share plus accrued and unpaid dividends for the then current dividend period to the date of redemption.

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

C. Capital Stock: District Associations are required to maintain ownership in the Bank in the form of Class B or Class C Common Stock as determined by the Bank. Associations fund stock purchases through Direct Note advances. A stock equalization computation is made annually. The Bank may require additional capital contributions to maintain its capital levels. At December 31, 2019, 2018, and 2017, the Associations' minimum stock requirement was 1.40 percent of Association Direct Note balances based on a risk-adjusted asset formula.

Additionally, the Bank has issued Class D Common Stock through patronage distributions in connection with participations purchased by the Bank from other System institutions selling loans to the Bank in accordance with the provisions of the Bank's capitalization plan. Class D Common Stock issued in connection with participations has no voting rights except to the extent that voting rights are granted to the Class D Common Stock pursuant to the Act, the FCA Regulations, or the Bylaws. Such stock may be retired at the discretion of the Board, and if retired, shall be retired at book value not to exceed its par value.

Effective April 2019, Class E Common Stock may be issued for any lawful purpose subject to a plan adopted by the Board. Class E Common Stock has no voting rights except to the extent voting rights are granted to the Class E Common Stock pursuant to the Act, the FCA regulations, or the Bylaws. Such stock may be retired at the discretion of the Board, and if retired, shall be retired at book value, not to exceed its par value.

- D. Other Equity: OFIs make cash purchases of participation certificates and are required to capitalize their loans using the same methodology as the District Associations. At December 31, 2019, 2018, and 2017, the OFIs' minimum stock requirement was 3.50 percent of Direct Note balances.
- **E.** Order of Priority Upon Impairment or Liquidation:

Impairment

Net losses, to the extent they exceed unallocated surplus, shall, except as otherwise provided in the Act, be treated as impairing stock in the following order:

First, Class B Common Stock, Class C Common Stock, Class D Common Stock, Class E Common Stock, and Participation

Certificates, pro rata, in proportion to the number of shares or units of each such class of stock then issued and outstanding, until such stock is fully impaired; and

Second, Preferred Stock in proportion to the number of shares of each class and series thereof then issued and outstanding (applied, as among series that rank differently upon liquidation or dissolution of AgFirst, in reverse order of priority first to the most junior ranking series and then successively to each next most junior ranking series) and consistent with the terms of each such class or series until such stock is fully impaired; and

Third, subject to the Act, as amended, and the regulations thereunder, in such manner as shall be determined by the Board.

## Liquidation

In the event of liquidation or dissolution of AgFirst, any assets of AgFirst remaining after payment or retirement of all liabilities shall be distributed in the following order or priority:

First, to the holders of Preferred Stock, in proportion to the number of shares of each class and series thereof then issued and outstanding and consistent with the terms of each such series until an amount equal to the liquidation preference provided for in the terms of such series of Preferred Stock has been distributed to such holders (applied, as among series that rank differently upon liquidation or dissolution of AgFirst, in order of priority first to the most senior ranking series and then successively to each next most senior ranking series); and

Second, to the holders of Class B Common Stock, Class C Common Stock, Class D Common Stock, Class E Common Stock, and Participation Certificates, pro rata, in proportion to the number of shares or units of each such class of stock then issued and outstanding, until an amount equal to the aggregate par or face value of all such shares or units has been distributed to such holders; and

Third, in accordance with the memorandum of accounting established in the Agreement and Plan of Consolidation between The Farm Credit Bank of Columbia and The Farm Credit Bank of Baltimore, dated as of October 31, 1994; and

Fourth, all remaining assets of AgFirst after such distributions shall be to the extent practicable distributed to all stockholders and holders of Participation Certificates on a patronage basis.

F. Regulatory Capitalization Requirements and Restrictions: An FCA regulation empowers it to direct a transfer of funds or equities by one or more System institutions to another System institution under specified circumstances. The Bank has not been called upon to initiate any transfers and is not aware of any proposed action under this regulation.

The capital regulations ensure that the System's capital requirements are comparable to the Basel III framework and the standardized approach that the federal banking regulatory agencies have adopted. Regulatory ratios include common equity tier 1 (CET1) capital, tier 1 capital, and total regulatory capital risk-based ratios. The regulations also include a tier 1 leverage ratio and an unallocated retained earnings (URE) and URE equivalents (UREE) leverage ratio. The permanent capital ratio (PCR) remains in effect.

The ratios are calculated using three-month average daily balances, in accordance with FCA regulations, as follows:

- The CET1 capital ratio is the sum of statutory minimum purchased borrower stock, other required borrower stock held for a minimum of 7 years, allocated equities held for a minimum of 7 years or not subject to revolvement, unallocated retained earnings, and paid-in capital, less certain regulatory required deductions including the amount of investments in other System institutions, divided by average risk-adjusted assets.
- The tier 1 capital ratio is CET1 capital plus non-cumulative perpetual preferred stock, divided by average risk-adjusted assets.
- The total regulatory capital ratio is tier 1 capital plus other required borrower stock held for a minimum of 5 years, subordinated debt and limited-life preferred stock greater than 5 years to maturity at issuance subject to certain limitations, and allowance for loan losses and reserve for unfunded commitments under certain limitations less certain investments in other System institutions under the corresponding deduction approach, divided by average risk-adjusted assets.
- The PCR is all at-risk borrower stock, any allocated excess stock, unallocated retained earnings, paid-in capital, subordinated debt and preferred stock subject to certain limitations, less certain investments in other System institutions, divided by PCR riskadjusted assets.
- The tier 1 leverage ratio is tier 1 capital, divided by average total assets less regulatory deductions to tier 1 capital.
- The URE and UREE leverage ratio is unallocated retained earnings, paid-in capital, and allocated surplus not subject to revolvement less certain regulatory required deductions including the amount of allocated investments in other System institutions divided by average total assets less regulatory deductions to tier 1 capital.

The following sets forth the regulatory capital ratios:

	Minimum	Capital Conservation	Minimum Requirement with Capital	Capi	tal Ratios as of Decemb	er 31,
Ratio	Requirement	Buffer*	Conservation Buffer	2019	2018	2017
Risk-adjusted ratios:						
CET1 Capital	4.50%	2.50%	7.00%	18.90%	21.20%	21.73%
Tier 1 Capital	6.00%	2.50%	8.50%	19.29%	21.64%	22.18%
Total Regulatory Capital	8.00%	2.50%	10.50%	19.45%	21.79%	22.31%
Permanent Capital	7.00%	0.00%	7.00%	19.32%	21.67%	22.21%
Non-risk-adjusted ratios:						
Tier 1 Leverage	4.00%	1.00%	5.00%	7.10%	7.53%	7.67%
URE and UREE Leverage	1.50%	0.00%	1.50%	6.17%	6.58%	6.72%

<sup>\*</sup>Includes fully phased-in capital conservation buffers which became effective January 1, 2020. At December 31, 2019, the capital conservation buffers would have been 1.875 percent for the risk-adjusted capital ratios.

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.

G. Accumulated Other Comprehensive Income: The following presents activity related to AOCI for the periods presented.

	For the Year Ended December 31,										
		For	r 31,								
(dollars in thousands)		2019		2018	2017						
Investment Securities:											
Balance at beginning of period	\$	(49,429)	\$	(20,026)	\$	2,561					
OCI before reclassifications		101,753		(29,390)		(22,845)					
Amounts reclassified from AOCI		-		(13)		258					
Net current period OCI		101,753		(29,403)		(22,587)					
Balance at end of period	\$	52,324	\$	(49,429)	\$	(20,026)					
Cash Flow Hedges:											
Balance at beginning of period	\$	886	\$	18	\$	(838)					
OCI before reclassifications		_		19		(115)					
Amounts reclassified from AOCI		(353)		849		971					
Net current period OCI		(353)		868		856					
Balance at end of period	\$	533	\$	886	\$	18					
Employee Benefit Plans:											
Balance at beginning of period	\$	(3,109)	\$	(4,748)	\$	(4,076)					
OCI before reclassifications		(1,593)		1,138		(1,041)					
Amounts reclassified from AOCI		328		501		369					
Net current period OCI		(1,265)		1,639		(672)					
Balance at end of period	\$	(4,374)	\$	(3,109)	\$	(4,748)					
Total AOCI:											
Balance at beginning of period	\$	(51,652)	\$	(24,756)	\$	(2,353)					
OCI before reclassifications		100,160		(28,233)		(24,001)					
Amounts reclassified from AOCI		(25)		1,337		1,598					
Net current period OCI		100,135		(26,896)		(22,403)					
Balance at end of period	\$	48,483	\$	(51,652)	\$	(24,756)					

Reclassifications Out of Accumulated Other Comprehensive Income (b)	į
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Changes in Accumulated Other Comprehensive Income by Component (a)

	For the	Year F	Ended Decem		·	
(dollars in thousands)	2019		2018		2017	Income Statement Line Item
Investment Securities:						
Sales gains & losses	\$ _	\$	13	\$	(258)	Gains (losses) on investments, net
Holding gains & losses	_		_			Net other-than-temporary impairment
Net amounts reclassified	 _		13		(258)	
Cash Flow Hedges:						
Interest income	353		(868)		(856)	Interest income on investment securities
Gains (losses) on other transactions	_		19		(115)	Gains (losses) on other transactions
Net amounts reclassified	 353		(849)		(971)	
Employee Benefit Plans:						
Periodic pension costs	(328)		(501)		(369)	See Note 9, Employee Benefit Plans
Net amounts reclassified	(328)		(501)		(369)	
Reclassifications for the period	\$ 25	\$	(1,337)	\$	(1,598)	

- (a) Amounts in parentheses indicate debits to AOCI.
- (b) Amounts in parentheses indicate debits to profit/loss.

# Note 8 — 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. See Note 2, Summary of Significant Accounting Policies, Subsection K, Valuation Methodologies, for further information.

Estimating the fair value of equity investments in other Farm Credit institutions is not practicable because the stock is not traded. The net investment is carried at cost.

The classifications within the fair value hierarchy are as follows:

## Level 1

Level 1 assets consist of assets held in trust funds related to deferred compensation and supplemental retirement plans. The trust funds include investments in securities that are actively traded and have quoted net asset value prices that are directly observable in the marketplace. These funds may be redeemed on any business day on which the New York Stock Exchange is open for regular trading.

For cash and cash equivalents, the carrying value is primarily utilized as a reasonable estimate of fair value.

## Level 2

The fair value of substantially all investment securities is determined from third-party valuation services that estimate current market prices. Inputs and assumptions related to third-party market valuation services are typically observable in the marketplace. Such services incorporate prepayment assumptions and underlying mortgage- or asset-backed collateral information to generate cash flows that are discounted using appropriate benchmark interest rate curves and volatilities. Third-party valuations also incorporate information regarding broker/dealer quotes, available trade information, historical cash flows, credit ratings, and

other market information. Such valuations represent an estimated exit price, or price to be received by a seller in active markets to sell the investment securities to a willing participant.

Level 2 assets include investments in U.S. government and agency mortgage-backed securities and U.S. agency debt securities, all of which use unadjusted values from third parties or internal pricing models. The underlying loans for these investment securities are residential mortgages or commercial loans.

Also included are non-agency ABSs, federal funds sold, securities purchased under resale agreements, and other highly-liquid funds, all of which are non-exchange-traded instruments. The market value of these federal funds sold and other instruments is generally their face value, plus accrued interest, as these instruments are highly-liquid, readily convertible to cash, and short-term in nature.

The fair value of derivative financial instruments is the estimated amount to be received to sell a derivative asset or paid to transfer a derivative liability in active markets among willing participants at the reporting date. Estimated fair values are determined through internal valuation models which use an income approach. Interest rate derivative models incorporate benchmark interest rate curves, primarily the LIBOR swap and Overnight Index Swap (OIS) curves, potential volatilities of future interest rate movements, and other inputs which are observable directly or indirectly in the marketplace. The models used for other types of derivatives may take inputs such as market price changes, exchange rates, benchmark interest rates, and other inputs observable directly or indirectly in the marketplace. The Bank compares internally calculated derivative valuations to broker/dealer quotes to substantiate the results.

Collateral liabilities may also be considered Level 2. The majority of derivative contracts are supported by bilateral collateral agreements with counterparties requiring the posting of collateral in the event certain dollar thresholds of credit exposure are reached. Face value approximates the fair value of collateral liabilities.

## Level 3

Because no active market exists for the Bank's loans, fair value is estimated by discounting the expected future cash flows using interest rates at which similar loans would currently be made to borrowers with similar credit risk. For purposes of determining fair value of accruing

loans, the portfolio is segregated into pools of loans with homogeneous characteristics based upon repricing and credit risk. Expected future cash flows and interest rates reflecting appropriate credit risk are separately determined for each individual pool.

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

For investments in debt securities, fair value is estimated by discounting expected future cash flows using prevailing rates for similar instruments at the measurement date.

Other property owned is classified as a Level 3 asset. The fair value is generally determined using formal appraisals of each individual property. These assets are held for sale. Costs to sell represent transaction costs and are not included as a component of the fair value of other property owned. Other property owned consists primarily of real and personal property acquired through foreclosure or deed in lieu of foreclosure and is carried as an asset held for sale, which is generally not its highest and best use. These properties are part of the Bank's credit risk mitigation efforts, not its ongoing business. In addition, FCA regulations require that these types of property be disposed of within a reasonable period of time.

Systemwide Debt Securities are not all traded in the secondary market and those that are traded may not have readily available quoted market prices. Therefore, the fair value of the instruments is estimated by calculating the discounted value of the expected future cash flows. The discount rates used are based on the sum of quoted market yields for the Treasury yield curve and an estimated yield-spread relationship between Systemwide Debt Securities and Treasury securities. An appropriate yield-spread is estimated, taking into consideration selling group member (banks and securities dealers) yield indications, observed new GSE debt security pricing, and pricing levels in the related USD interest rate swap market.

The following tables present 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 periods.

(dollars in thousands)	Mortgage Servicing Rights, Net	Forward Contracts, Net
Balance at December 31, 2018	\$ 1,033	\$ 
Gains or (losses) included in earnings	_	_
Gains or (losses) included in OCI	_	_
Purchases	_	=
Sales	_	_
Issuances	2	7
Settlements	(349)	(7)
Transfers in and/or out of Level 3	`	_
Balance at December 31, 2019	\$ 686	\$ 

(dollars in thousands)	Mortgage Servicing Rights, Net	Forward Contracts, Net
Balance at December 31, 2017	\$ _	
Gains/(losses) included in earnings	_	_
Gains/(losses) included in OCI	_	_
Purchases	_	_
Sales	_	_
Issuances	1,033	1,413
Settlements	_	(1,413)
Transfers in and/or out of Level 3	_	_
Balance at December 31, 2018	\$ 1,033	\$ -

(dollars in thousands)	U.S. Govt. Guaranteed	U.S. Govt. Agency Guaranteed
Balance at December 31, 2016	\$ 25,047	\$ 2,535
Gains/(losses) included in earnings	(437)	(9)
Gains/(losses) included in OCI	598	36
Purchases	_	_
Sales	(23,095)	(1,886)
Settlements	(2,113)	(676)
Transfers in and/or out of Level 3	 _	
Balance at December 31, 2017	\$ _	\$ =

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.

	December 31, 2019									
(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	\$	143,839	\$	_	\$	143,839	\$	_	\$	143,839
U.S. Govt. guaranteed		4,539,387		_		4,539,387		_		4,539,387
U.S. Govt. agency guaranteed		2,470,515		_		2,470,515		_		2,470,515
Non-agency ABSs		741,828		_		741,828		_		741,828
Total investments in debt securities available-for-sale		7,895,569		_		7,895,569		_		7,895,569
Federal funds sold, securities purchased		.,,.				.,,.				.,,.
under resale agreements, and other		650,000		_		650,000		_		650,000
Mortgage servicing rights		756		_				756		756
Assets held in trust funds		16,065		16,065		_		_		16,065
Recurring Assets	\$	8,562,390	\$	16,065	\$	8,545,569	\$	756	\$	8,562,390
Liabilities:										
Mortgage servicing rights	\$	70	\$	_	\$	_	\$	70	\$	70
Recurring Liabilities	\$	70	\$	=	\$	-	\$	70	\$	70
Nonrecurring Measurements										
Assets:										
Impaired loans	\$	12,958	\$	_	\$	_	\$	12,958	\$	12,958
Other property owned	Ψ	3,041	Ψ	_	Ψ	_	Ψ	3,671	Ψ	3,671
Nonrecurring Assets	\$	15,999	\$		\$		\$	16,629	\$	16,629
Other Financial Instruments										
Assets:										
Cash	\$	444,559	\$	444.550	\$		\$		\$	444,559
Investments in debt securities held to maturity	\$	37,266	Þ	444,559	Э	1 212	Þ	39,629	Þ	40,842
Loans				_		1,213				
Other Financial Assets		25,080,669 25,562,494	\$	444,559	\$	1,213	\$	25,130,187 25,169,816	\$	25,130,187 25,615,588
		,, -> '	-	,	-	-,=10	-	,,	~	
Liabilities:	_		_							
Systemwide debt securities	\$	31,723,767	\$	_	\$	_	\$	31,795,514	\$	31,795,514
Other Financial Liabilities	\$	31,723,767	\$	_	\$	-	\$	31,795,514	\$	31,795,514

					Dec	ember 31, 2018	3			
(dollars in thousands)		Total Carrying Amount		Level 1 Level		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
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:										
Mortgage servicing rights	\$	69	\$	_	\$	_	\$	69	\$	69
Recurring Liabilities	\$	69	\$	=	\$	=	\$	69	\$	69
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	\$	30,381,701	\$	_	\$	_	\$	30,104,941	\$	30,104,941
Other Financial Liabilities	-\$	30,381,701	\$	_	\$	_	\$	30,104,941	\$	30,104,941
o mer i manetar Entornates	Ψ	50,501,701	Ψ		Ψ		Ψ	30,101,771	Ψ	30,101,711

	December 31, 2017									
(dollars in thousands)		Total Carrying Amount		Level 1		Level 2		Level 3		Total Fair Value
Recurring Measurements		rimount		Leveri		Ecvel 2		Levero		, muc
Assets:										
Investments in debt securities available-for-sale:										
U.S. Govt. Treasury securities	\$	490,097	\$	_	\$	490,097	\$	_	\$	490.097
U.S. Govt. guaranteed	•	4,535,213	•	_		4,535,213		_	•	4,535,213
U.S. Govt. agency guaranteed		2,006,843		_		2,006,843		_		2,006,843
Non-agency ABSs		631,452		_		631,452		_		631,452
Total investments in debt securities available-for-sale		7,663,605		_		7,663,605		_		7,663,605
Federal funds sold, securities purchased		,,,				,,,,,,,,,				,,,,,,,,,,
under resale agreements, and other		150,000		_		150,000		_		150,000
Money market funds		122,519		122,519		_		_		122,519
Assets held in trust funds		13,086		13,086		_		_		13,086
Recurring Assets	\$	7,949,210	\$	135,605	\$	7,813,605	\$	-	\$	7,949,210
Liabilities:										
Recurring Liabilities	\$	-	\$	_	\$	-	\$	-	\$	
Nonrecurring Measurements										
Assets:										
Impaired loans	\$	6,767	\$	_	\$	-	\$	6,767	\$	6,767
Other property owned		154		_		-		168		168
Nonrecurring Assets	\$	6,921	\$	_	\$	-	\$	6,935	\$	6,935
Other Financial Instruments										
Assets:										
Cash	\$	440,768	\$	440,768	\$	-	\$	_	\$	440,768
Investments in debt securities held to maturity		458,623		_		403,082		60,258		463,340
Loans		23,338,012		_		-		23,201,602		23,201,602
Other Financial Assets	\$	24,237,403	\$	440,768	\$	403,082	\$	23,261,860	\$	24,105,710
Liabilities:										
Systemwide debt securities	\$	29,762,991	\$	_	\$	_	\$	29,619,713	\$	29,619,713
Other Financial Liabilities	\$	29,762,991	\$	=	\$		\$	29,619,713	\$	29,619,713

#### Uncertainty in Measurements of Fair Value

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.

#### 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)	Fa	ir Value	Valuation Technique(s)	Unobservable Input	Range
Impaired loans and other property owned	\$	16,629	Appraisal	Income and expense	*
				Comparable sales	*
				Replacement cost	*
				Comparability adjustments	*
Mortgage servicing rights, net	\$	686	Discounted cash flow	Constant prepayment rate	
				Probability of default	
				Loss severity	
				Fees and costs	

## Information about Recurring and Nonrecurring Level 2 Fair Value Measurements

information about Recurring and 1	Confeculting Devel 2 Fan Valu	ic ivicasur cineres
	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

## 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.

<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.

#### Note 9 — Employee Benefit Plans

The Bank participates in three District-sponsored benefit plans. These plans include a multiemployer defined benefit pension plan, the AgFirst Farm Credit Retirement Plan, which is a final average pay plan (FAP Plan). In addition, the Bank participates in a multiemployer defined benefit other postretirement benefits plan (OPEB Plan), the FCBA Retiree and Disabled Medical and Dental Plan, and a defined contribution 401(k) plan. The risks of participating in these multiemployer plans are different from single-employer plans in the following aspects:

- Assets contributed to multiemployer plans by one employer may be used to provide benefits to employees of other participating employers.
- If a participating employer stops contributing to the plan, the unfunded obligations of the plan may be borne by the remaining participating employers.
- If the Bank chooses to stop participating in some of its multiemployer plans, the Bank may be required to contribute to eliminate the underfunded status of the plan.

The District's multiemployer plans are not subject to ERISA and no Form 5500 is required to be filed. As such, the following information is neither available for nor applicable to the plans:

- The Employer Identification Number (EIN) and three-digit Pension Plan Number.
- The most recent Pension Protection Act (PPA) zone status.
   Among other factors, plans in the red zone are generally less than 65 percent funded, plans in the yellow zone are less than 80 percent funded, and plans in the green zone are at least 80 percent funded.
- The "FIP/RP Status" indicating whether a financial improvement plan (FIP) or a rehabilitation plan (RP) is either pending or has been implemented.
- 4. The expiration date(s) of collective-bargaining agreement(s).

The FAP Plan covers employees hired prior to January 1, 2003 and includes other District employees that are not employees of the Bank. It is accounted for as a multiemployer plan. The related net benefit plan obligations are not included in the Bank's Balance Sheets but are included in the Combined Balance Sheets for the AgFirst District. FAP Plan expenses included in employee benefit costs on the Bank's Statements of Income were \$4.3 million for 2019, \$5.8 million for 2018, and \$5.3 million for 2017. At December 31, 2019, 2018, and 2017, the total liability balance for the FAP Plan presented in the District Combined Balance Sheets was \$129.7 million, \$94.5 million, and \$139.1 million, respectively. The FAP Plan was 87.55 percent, 89.56 percent, and 86.41 percent funded to the projected benefit obligation as of December 31, 2019, 2018, and 2017, respectively.

In addition to providing pension benefits, the Bank provides certain medical and dental benefits for eligible retired employees through the OPEB Plan. Substantially all of the Bank employees may become eligible for the benefits if they reach early retirement age while working for the Bank. Early retirement age is defined as a minimum of age 55 and 10 years of service. Employees hired after December 31, 2002, and employees who separate from service between age 50 and age 55, are required to pay the full cost of their retiree health insurance coverage. In addition, substantially all District employees who retired on or before December 1, 2007, after reaching early retirement age are provided retiree life insurance benefits. The OPEB Plan includes other Farm Credit System employees that are not employees of the Bank or District and is accounted for as a multiemployer plan. The related net benefit plan obligations are not included in the Bank's Balance Sheets but are included in the Combined Statement of Condition for the Farm Credit System. The OPEB Plan is unfunded with expenses paid as incurred. Postretirement benefits other than pensions included in employee benefit costs on the Bank's Statements of Income were \$991 thousand for 2019, \$988 thousand for 2018, and \$937 thousand for 2017. At December 31, 2019, the total AgFirst District liability balance for the OPEB Plan presented in the Farm Credit System Combined Statement of Condition was \$209.5 million.

During 2017, the method of recording expenses at participating District entities for the FAP and OPEB Plans was modified. Prior to 2017, expense was recorded based on allocations of actuarially-determined costs and any differences between recorded expense and actual contributions were recorded in Other Assets or Other Liabilities on the Balance Sheets. For 2017 and future years, participating entities record postretirement benefit costs based on the actual contributions to the Plans. This change caused the Bank to modify its accounting estimates recorded in Other Assets and Other Liabilities since the assets and liabilities do not impact future contributions to the Plans. The change in estimate resulted in the reduction of Other Assets by \$9.1 million and the reduction of Other Liabilities by \$17.2 million on the Bank's Balance Sheets, and a total reduction of noninterest expenses on the Bank's Statements of Income of \$8.1 million during 2017.

The Bank also participates in the defined contribution FCBA 401(k) Plan (401(k) Plan), which qualifies as a 401(k) plan as defined by the Internal Revenue Code. For employees hired on or prior to December 31, 2002, the Bank contributes \$0.50 for each \$1.00 of the employee's first 6.00 percent of contribution (based on total compensation) up to the maximum employer contribution of 3.00 percent of total compensation. For employees hired on or after January 1, 2003, the Bank contributes \$1.00 for each \$1.00 of the employee's first 6.00 percent of contribution up to the maximum employer contribution of 6.00 percent of total compensation. Employee deferrals are not to exceed the maximum deferral as determined and adjusted by the Internal Revenue Service. The 401(k) Plan costs are expensed as funded. Employer contributions to this plan included in employee benefit costs were \$3.3 million, \$3.0 million, and \$2.7 million for the years ended December 31, 2019, 2018, and 2017, respectively. Beginning in 2015, contributions include an additional 3.00 percent of eligible compensation for employees hired after December 31, 2002.

In addition to the multiemployer plans above, the Bank sponsors a single employer defined benefit supplemental retirement plan and offers a FCBA supplemental 401(k) plan for certain key employees. These plans are nonqualified; therefore, the associated liabilities are included in the Bank's Balance Sheets in Other Liabilities. The supplemental retirement plan is unfunded and had a projected benefit obligation of \$14.3 million and a net under-funded status of \$14.3 million at December 31, 2019. Assumptions used to determine the projected benefit obligation as of that date included a discount rate of 3.30 percent and a rate of compensation increase of 4.00 percent. Expenses of these nonqualified plans included in noninterest expenses were \$1.4 million, \$1.4 million, and \$1.3 million for 2019, 2018, and 2017, respectively.

FASB guidance further requires the determination of the fair value of plan assets and recognition of actuarial gains and losses, prior service costs or credits, and transition assets or obligations as a component of AOCI. Under the guidance, these amounts are subsequently recognized as components of net periodic benefit costs over time. For 2019, 2018, and 2017, \$(1.3) million, \$1.6 million, and \$(672) thousand, respectively, have been recognized as a net debit, a net credit, and a net debit to AOCI to reflect these elements.

Additional information for the multiemployer plans may be found in the Notes to the Annual Information Statement of the Farm Credit System.

## Note 10 — Related Party Transactions

In the ordinary course of business, the Bank enters into loan transactions with related parties which may include loans to officers and directors, their immediate families and other organizations with which such persons may be affiliated.

As discussed in Note 1, Organization and Operations, the Bank lends funds to the District Associations primarily to fund their loan portfolios. Further disclosure regarding these related party transactions is found in Note 3, Loans and Allowance for Loan Losses; Note 7, Shareholders' Equity; and Note 11, Commitments and Contingencies.

Interest income recognized, net of participations sold, on Direct Notes receivable from District Associations and OFIs was \$555.8 million,

\$503.3 million and \$434.1 million for 2019, 2018, and 2017, respectively.

## Note 11 — Commitments and Contingencies

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. Because it is not probable that the Bank will incur a loss or the loss is not estimable, no liability has been recorded for any claims that may be pending.

In the normal course of business, the Bank may participate in credit related financial instruments with off-balance-sheet risk to satisfy the financing needs of its borrowers or the borrowers of the District Associations. These financial instruments may include commitments to extend credit, letters of credit, or various guarantees. The instruments involve, to varying degrees, elements of credit risk in excess of the amount recognized in the financial statements. Commitments to extend credit are agreements to lend to a borrower as long as there is not a violation of any condition established in the contract. Commercial letters of credit are agreements to pay a beneficiary under conditions specified in the letter of credit. Commitments and letters of credit generally have fixed expiration dates or other termination clauses and may require payment of a fee.

Since many of these commitments are expected to expire without being drawn upon, the total commitments do not necessarily represent future cash requirements. However, these financial instruments have offbalance-sheet credit risk because their amounts could be drawn upon at the option of the borrower. The credit risk associated with issuing commitments and letters of credit is substantially the same as that involved in extending loans to borrowers and the same credit policies are applied by management. Upon fully funding a commitment, the credit risk amounts are equal to the contract amounts, assuming that borrowers fail completely to meet their obligations and the loan collateral is of no value. The amount of collateral obtained, if deemed necessary upon extension of credit, is based on management's credit evaluation of the borrower. At period end, \$5.472 billion of commitments to extend credit were outstanding with a related reserve for unfunded commitments of \$261 thousand included in Other Liabilities in the Balance Sheets. No reserve for unfunded commitments is established for commitments related to the Bank's Direct Note portfolio.

The Bank also participates in standby letters of credit to satisfy the financing needs of its borrowers. These letters of credit are irrevocable agreements to guarantee payments of specified financial obligations. At period end, standby letters of credit outstanding totaled \$52.8 million, with expiration dates ranging from January 2020 to December 2023. The maximum potential amount of future payments the Bank may be required to make under these existing guarantees is \$52.8 million.

Under the Farm Credit Act, 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 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 it is primarily liable, the FCSIC must expend amounts available in the Insurance Fund 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. At December 31, 2019, the assets of the Insurance Fund totaled \$5.202 billion. 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 the 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 the aggregate of the bank's 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 the FCSIC as the receiver for the defaulting bank. The receiver would be required to expeditiously liquidate the bank.

AgFirst did not anticipate making any payments on behalf of its coobligors 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:

		De	cember 31,		
(dollars in billions)	2019		2018	2017	
Total System bonds and notes	\$ 293.538	\$	281.459	\$ 265.169	
AgFirst bonds and notes	31.724		30.382	29.763	

At period end, the Bank also guaranteed certain loans held by District Associations in the amount of \$700 thousand with expiration dates ranging from August 2020 to January 2021. The notional amounts of these guarantees represent the maximum amount of exposure the Bank has related to these instruments at period end.

## Note 12 — Income Taxes

The Bank is exempt from federal and other income taxes as provided in the Farm Credit Act. There was no change in this status during the periods presented.

## Note 13 — Additional Financial Information

## Quarterly Financial Information (Unaudited)

	2019									
(dollars in thousands)		First		Second		Third		Fourth		Total
Net interest income	\$	96,695	\$	99,071	\$	104,161	\$	107,735	\$	407,662
Provision for (reversal of allowance for) loan losses		(91)		444		1,130		(2,418)		(935)
Noninterest income (expense), net		(29,397)		(35,454)		(41,737)		(30,328)		(136,916)
Net income	\$	67,389	\$	63,173	\$	61,294	\$	79,825	\$	271,681

	2018									
(dollars in thousands)		First		Second		Third		Fourth		Total
Net interest income	\$	102,605	\$	100,716	\$	104,742	\$	102,104	\$	410,167
Provision for (reversal of allowance for) loan losses		1,423		(161)		1,544		736		3,542
Noninterest income (expense), net		(22,024)		(27,629)		(28,970)		(22,014)		(100,637)
Net income	\$	79,158	\$	73,248	\$	74,228	\$	79,354	\$	305,988

	2017									
(dollars in thousands)		First		Second		Third		Fourth		Total
Net interest income	\$	110,695	\$	112,173	\$	113,892	\$	110,307	\$	447,067
Provision for (reversal of allowance for) loan losses		609		(84)		(668)		(408)		(551)
Noninterest income (expense), net		(27,161)		(31,275)		(31,097)		(13,336)		(102,869)
Net income	\$	82,925	\$	80,982	\$	83,463	\$	97,379	\$	344,749

## Other Assets and Other Liabilities

A summary of other assets and other liabilities follows:

	December 31,										
(dollars in thousands)	2019 2018				2017						
Other assets:											
Assets held in trust funds	\$	16,065	\$	13,834	\$	13,086					
Lease assets		2,321		_		_					
Other		10,041		8,703		6,715					
Total	\$	28,427	\$	22,537	\$	19,801					
Other liabilities:											
Postretirement benefits liabilities	\$	14,262	\$	12,519	\$	13,534					
Payroll liabilities		7,588		7,433		6,613					
Bank drafts payable		5,701		1,398		10,005					
Lease liabilities		2,861		-		_					
Other		15,364		14,445		13,582					
Total	\$	45,776	\$	35,795	\$	43,734					

## Offsetting of Financial and Derivative Assets

			Dec	ember 31,		
(dollars in thousands)		2019		2018	201	7
Reverse repurchase and similar arrangements	\$	650,000	\$	100,000	\$ 150,	000
Gross Amount of Recognized Assets		650,000		100,000	150,	000
Reverse repurchase and similar arrangements		-		-		
Gross Amounts Offset in the Balance Sheets		_				
Net Amounts of Assets Presented in the Balance Sheets	\$	650,000	\$	100,000	\$ 150,	000
Financial Instruments		(650,000)	(	100,000)	(150,0	000)
Cash Collateral Received		_		_		_
Gross Amounts Not Offset in the Balance Sheets		(650,000)	(	100,000)	(150,0	000)
Net Amount	\$	-	\$	-	\$	_

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

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 Annual Report.

# Note 14 — Subsequent Events

The Bank evaluated subsequent events and determined that there were none requiring disclosure through March 12, 2020, which was the date the financial statements were issued.

# Glossary of Certain Acronyms

ABO Accumulated benefit obligation

ABS Asset backed security

ACA Agricultural Credit Association ACB Agricultural Credit Bank AFS Available-for-sale

ALCO Asset/Liability Management Committee ALM Asset and liability management

AOCI Accumulated Other Comprehensive Income

ARM Adjustable rate mortgage
ASU Accounting Standards Update
CFPB Consumer Financial Protection Bureau
CFTC Commodity Futures Trading Commission
CIPA Contractual Interbank Performance Agreement

CMO Collateralized Mortgage Obligation EIN Employer Identification Number

FAMC Federal Agricultural Mortgage Corporation (Farmer Mac)

FASB Financial Accounting Standards Board

FCA Farm Credit Administration

FCB Farm Credit Bank

FCBA Farm Credit Benefits Alliance

FCSIC Farm Credit System Insurance Corporation

FHA Federal Housing Administration

FHLMC Federal Home Loan Mortgage Corporation (Freddie Mac)

FLCA Federal Land Credit Association

FNMA Federal National Mortgage Association (Fannie Mae)

FSA Farm Service Agency

GAAP Generally Accepted Accounting Principles

GFA General Financing Agreement

GNMA Government National Mortgage Association (Ginnie Mae)

GSE Government-sponsored enterprise

HTM Held-to-maturity

LIBOR London Inter-Bank Offered Rate
LLC Limited liability company
MAA Market Access Agreement
MBS Mortgage-backed security
NII Net interest income

NRSRO Nationally Recognized Statistical Rating Organization

OAEM Other Assets Especially Mentioned OCI Other Comprehensive Income OFI Other financing institution OPO Other property owned

OTTI Other-than-temporary impairment
PBO Projected benefit obligation
PCA Production Credit Association
PFC Plan Fiduciary Committee
PPA Pension Protection Act
RAB Rural America Bond

RBIC Rural Business Investment Company RHMS Rural Housing Mortgage-Backed Securities

SBA Small Business Administration
SEC Securities and Exchange Commission
TDR Troubled debt restructuring
UBE Unincorporated business entity
URE Unallocated retained earnings

UREE Unallocated retained earnings equivalents

USD U.S. dollar

USDA United States Department of Agriculture

YBS Young, beginning, and small



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