



**2017 ANNUAL REPORT** 

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#### FARM CREDIT BANK OF TEXAS

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# MATCHING STRENGTH WITH SPEED

Partnerships are built on trust.

Dependable credit and customer service are the very foundation of Farm Credit's partnership with rural America. As modern agriculture rapidly grows to meet the global demand for food and fiber, Farm Credit Bank of Texas is keeping pace with the expertise, technology and reliable funding that customers need to meet their goals.

Our focus on agility, innovation and transparency ensures that together, we will go further, faster.



James F. "Jimmy" Dodson Chairman of the Board





**OUR MISSION** is to enhance the quality of life in rural communities by using cooperative principles to provide competitive credit and superior service to our member-owners.

#### **TO OUR STOCKHOLDERS:**

It was just over a year ago that the nationwide Farm Credit System celebrated its centennial. As we enter our second century of support for rural communities and agriculture, Farm Credit Bank of Texas is standing at the threshold of a new era.

Over the generations, Farm Credit has developed a deep understanding of agriculture, rural infrastructure and the credit needs of rural America. Recent years have brought rapid change across the rural landscape, both for ag-related industries and for financial institutions. The bank's focus is on helping customers meet new challenges so that they can be successful now and in the future.

Investing in flexible new technology to help our affiliated lending institutions serve their customers and comply with regulatory requirements is paramount to continued success. Thanks to strong earnings on our varied and growing asset base in 2017, we enhanced our products and services, and passed along added value to our affiliated lenders by returning a significant amount of our earnings through our patronage programs.

# **Financial Highlights**

The bank achieved record earnings for the 12th consecutive year, reporting \$196.0 million in net income in 2017. Net interest income increased \$13.0 million year over year, benefiting from a \$1.3 billion increase in average earning assets.

Our highly diversified loans and investments are our earnings engine, generating the stable income necessary to cover operating costs so that we can provide dependable credit and services. In 2017, total assets increased 7.6 percent to a record \$22.8 billion.

Most notable was a 9 percent increase in direct notes to the bank's affiliated lending cooperatives, also known as associations, and other financing institutions (OFIs), which serve rural borrowers across our five-state territory. Our volume of capital markets participation loans to ag-related businesses and rural infrastructure companies increased 4.1 percent, surpassing projections in a very competitive market. Credit quality remained strong, with 99.7 percent of the overall portfolio considered acceptable or special mention.

We continue to maintain strong capital and liquidity to meet the needs of the future. An increase in short-term rates in 2017 provided the opportunity to reposition the bank's cash balances into overnight federal funds, lowering the cost of liquidity. We also adopted new capital ratios that are in line with the Basel III international regulatory framework, making it easier to compare the bank's capital with that of commercial financial institutions. At year end, the bank had a total capital ratio of 16.6 percent and shareholders' equity of \$1.7 billion.

# The Cooperative Advantage

Because the bank is a federated cooperative — a cooperative owned by cooperatives — the more it earns, the more it can help its affiliated co-ops and other partners be successful so that they, in turn, can help agricultural producers and rural communities succeed.

One key cooperative principle is to return earnings to our patrons. In December 2017, we distributed a patronage payment of 39 basis points on direct notes to 14 lending associations and three OFIs.

In total, the bank returned \$97.9 million in cash through four patronage programs and allocated another \$6.0 million for potential cash payout to one of our participations partners:

Earnings Patronage on Direct Note	\$ 58.3 million
Participations Patronage	\$ 37.4 million
Stock Investment Patronage	\$ 6.1 million
Capitalized Participation Pool Patronage	\$ 2.1 million

Total \$ 103.9 million

The bank distributed another \$50.3 million in preferred stock dividends, bringing the total that we are returning to our affiliated cooperatives and other stockholders to \$154.2 million, or 78.7 percent of our 2017 net income.

We measure the success of our patronage program not just one year at a time, but also over the long term. As a result of our solid credit quality and capital position, our patronage on 2017 earnings was more than double the amount 10 years earlier, compared with a 68.9 percent increase in bank assets over the same period. More importantly, as a result of this year's patronage payment, our affiliated associations paid no more for funding than the bank paid, and can pass the value along to the farmers, ranchers and other borrowers they serve.

#### **Products and Services Boost Agility**

Another key to our success as a federated cooperative has been centralizing many functions at the bank while absorbing the cost of technology, accounting, human resources, training, marketing and other services that we provide to our affiliated lenders. This frees our association partners to focus on serving their customers.

As agriculture has grown more complex and capital-intensive, we have advanced with it, enhancing our services to meet the changing needs of the marketplace. We are modernizing our district's technology in order to give associations some of the best tools in the lending industry and build a solid foundation for future innovation.

We have been configuring the workflow in these market-fresh systems based on the way the associations do business. One of our goals is to provide consistency across desktop and mobile devices so that staff members can serve their customers as easily in the field as they can in a physical branch office. An enterprise mobility management platform that we introduced last year has made it possible to offer a new mobile application that is generating great excitement among lending staff.

Amid a rapidly changing regulatory climate, new automation is saving time and aiding compliance, such as verifying data for rural home mortgage disclosures and calculating new regulatory capital ratios. New technology and upgrades that make it easier for borrowers to manage their accounts and collaborate with lenders during the loan process are also in the works.

As an IT service provider, we present associations with a Service Organization Control 2 (SOC 2) report to demonstrate that we adhere to industry standards. The external auditor's clean opinion and exception-free report on our controls in 2017 assured our association customers that the systems we provide are secure and available when they need them.

# **Moving Forward and Looking Inward**

To assist associations with new technology, the bank offered on-site training and many new e-learning modules in 2017, expanding on the training available through a learning management system we introduced a year earlier.

We also provided extensive training on internal control over financial reporting (ICFR) — the focus of a three-year framework that the Farm Credit System adopted in late 2015. Institutions across the System have been taking a close look at how they assess risk and report reliable financial information, beginning with the banks in 2016 and continuing with the associations in 2017. In 2018 the banks also will evaluate their affiliated associations' ICFR programs.

As part of the framework, in 2017 we added a new dimension to the bank's external audit, which in previous years assessed the financial statements. Our first integrated audit also evaluates whether the bank's internal controls are effective and appropriately designed, providing additional assurance that our financial statements are reliable. This opinion from an external accounting firm builds on the testing and reporting that we have conducted for many years, and is comparable to commercial financial institutions' compliance with the Sarbanes-Oxley Act.

A new compliance department that we created in 2017 will evaluate associations' ICFR programs as well as coordinate the bank's ICFR and SOC compliance activities. The bank also is an active member of the System's ICFR workgroup, and has helped develop education programs, practice aids and other tools used nationwide.

# **Looking Ahead**

Farm Credit Bank of Texas enters 2018 on a firm financial footing.

We are very proud of the staff behind the bank's success, and continue to invest in people and technology in order to meet our associations' needs and expectations in the years to come. Our focus in the immediate future is the conversion to new loan origination and loan accounting systems that will be user-friendly, yet powerful enough to handle even the most complex loans.

In the year to come, we will continue to monitor the general and agricultural economies, and are optimistic that the positive trends in our territory will continue. Fortunately, our portfolio is supported by strong capital, credit quality and diversification. We will continue to carry out our mission so that agricultural producers and rural communities have the financial wherewithal to handle a variety of scenarios, and hope that lawmakers determining the federal policy in the upcoming farm bill will do the same.

Whatever the challenges, access to credit will not be one of them. We look forward to supporting agriculture's ongoing growth and success.

James F. "Jimmy" Dodson Chairman of the Board

lof

Larry R. Doyle Chief Executive Officer



# **KEY ACCOMPLISHMENTS**

# Bank achieves 12th consecutive year of record earnings.

Net income increased 1.9 percent to \$196.0 million, benefiting from a \$1.3 billion increase in average earning assets. Earnings, total assets and total loans reached record levels, and credit quality remained very high.

# Integrated audit reflects strong control environment.

For the first time, our 2017 annual report includes an integrated audit of not only the financial statements but also our internal control over financial reporting. This new measure is comparable to commercial financial institutions' compliance with the Sarbanes-Oxley Act.

# Cooperative business model lowers associations' cost of funds.

We distributed a patronage payment of 39 basis points on direct note volume to our affiliated lenders, effectively lowering their funding cost to the bank's own cost.

## Capital and liquidity provide opportunities for growth, protection from adversity.

We adopted new capital ratios that are in line with the Basel III international regulatory framework, making it easier to compare our capital with that of commercial financial institutions. Our solid capital position, diversified loans and investments, interest rate risk management and debt management continue to provide stability.

# Products and support services help associations serve their customers.

We are enhancing risk management, regulatory compliance and customer service through several operational and technology initiatives. Our commitment to being a good steward of associations' data was borne out by a clean opinion on our Service Organization Control 2 (SOC 2) report.



# FARM CREDIT BANK

# **2017 TOP FINANCIAL MARKERS**



CAPITAL LEVEL

\$1.7 BILLION The bank adopted new capital ratios in 2017 and maintained strong regulatory capital.

	At Dec. 31, 2017	Regulatory Requirement
Common equity tier 1 ratio	10.52%	7.00%
Total capital ratio	16.68%	10.50%
Tier 1 leverage ratio	7.33%	5.00%

## DIVERSIFICATION OF CAPITAL MARKETS LOANS BY COMMODITY



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#### FINANCIAL HIGHLIGHTS

For the Year (in thousands)	2017	2016	2016
Net interest income	\$251,321	\$ 238,321	\$ 232,468
Negative provision (provision)			
for credit losses	1,673	(563)	2,506
Noninterest expense, net	(57,008)	(45,352)	(42,735)
Net income	\$195,986	\$ 192,406	\$ 192,239
Rate of return on:			
Average assets	0.89%	0.92%	1.02%
Average shareholders' equity	11.51%	11.67%	12.22%
Cash patronage declared	\$ 97,982	\$ 96,449	\$ 82,478
At Year End (in millions)			
Total loans	\$ 17,085	\$ 15,909	\$ 14,771
Total assets	22,837	21,222	19,990
Total liabilities	21,169	19,600	18,436
Total shareholders' equity	1,668	1,622	1,554







#### **RETURN ON AVERAGE EQUITY**



**TOTAL ASSETS OUTSTANDING** 









From left to right are Brad C. Bean; Elizabeth G. "Betty" Flores; James F. "Jimmy" Dodson, chairman; Lester Little, vice chairman; Linda Floerke; M. Philip Guthrie; and Ralph W. "Buddy" Cortese.

# **BOARD OF DIRECTORS**

The bank provides funding and support services to the lending cooperatives in a five-state district, helping these local associations be successful so that they can help agricultural producers and rural communities succeed.

Its board of directors establishes policies for the bank, provides strategic direction, oversees management and ensures that the bank operates in a safe and sound manner.

The board members have extensive business and leadership experience in a variety of backgrounds. Five of the directors are farmers or ranchers, elected by the local financing cooperatives that own the bank. The two board-appointed directors have backgrounds in banking, finance and business operations.



From left to right are Stan Ray, chief administrative officer; Amie Pala, senior vice president and chief financial officer; Kurt Thomas, senior vice president and outgoing chief credit officer; Larry Doyle, chief executive officer; Michael Elliott, chief information officer; Carolyn Owen, senior vice president, corporate affairs, general counsel and corporate secretary; and Susan Wallar, vice president, special projects, and former chief audit executive.

# SENIOR MANAGEMENT TEAM

The bank's leaders draw from experience they have gained during their long tenures in the Farm Credit System and in lending, finance, government, information technology, agriculture and farmerowned cooperatives.

In addition to overseeing day-to-day operations, the senior management team sets the course for the bank's future success by working with the board to establish business goals and strategies.

Through their vision, combined experience and conservative approach to risk, they ensure that the bank is a stable source of funding and an earnings engine for the district it serves, strengthening our affiliated lenders' ability to provide competitive credit and superior service for the rural marketplace.



#### Nisha Rocap

Rocap joined the bank as chief audit executive in November 2017, succeeding Susan Wallar, who is retiring in 2018. She oversees the bank's internal audit department and credit review function, working closely with the audit committee. Her department also facilitates the Farm Credit Administration's examination process and works with external auditors.

Prior to joining the bank, Rocap spent 16 years in public accounting, most recently as risk assurance director at PricewaterhouseCoopers.

at an association, and additional experience in commercial banking.



#### John Sloan

Sloan is the bank's chief credit officer, succeeding Kurt Thomas, who retired in December. He oversees the division that includes capital markets, association direct lending, credit operations and risk management. Previously, he managed the bank's association direct lending unit.

Sloan joined the bank in 2010 with 20 years of Farm Credit experience, including eight years in agribusiness lending

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# **ADVANCING TOWARD THEIR GOALS**

For more than a century, Farm Credit has provided rural Americans with the credit necessary to achieve their goals and fulfill their dreams. Farm Credit financing has enabled young farmers to start their first farm, helped entrepreneurs to start agribusiness companies, and allowed families to build a home in the country and enjoy the rural lifestyle.

Over the years, our customers' financing needs have changed and expanded as agriculture has become more high-tech and capital-intensive. What hasn't changed is Farm Credit's support for agriculture and rural communities, and our desire to help our borrowers advance. When they need better equipment, updated facilities and new technology, Farm Credit will be there.

On the following pages, we introduce a few of the farmers, ranchers and agribusinesses who are part of the co-op family in the Texas Farm Credit District. We are proud that Farm Credit financing has helped propel them toward their goals.





# LAHEY VINEYARDS

# **Brownfield**, Texas

West Texas farmers Matt Adams and Jerry Weaver did not plan to own one of the largest vineyards in Texas. Rather, they just wanted to grow a crop that offered more market value than cotton, corn or peanuts.

Farming in the High Plains region, which produces 80 percent of the state's grapes, and in Terry County, the official Grape Capital of Texas, they turned to grapes as an alternative crop.

As the longtime friends tell it, they started researching the grape industry and running the numbers, and one thing led to another.

"We decided that once you get all set up, it's just as easy to plant 400 acres as it is 50 acres," says Adams. And so they did.

The pair joined forces and launched their commercial grape-growing operation, Lahey Vineyards, near Brownfield in 2012. But they did not enter the business blindly. Before committing their land to grapes, they visited vineyards from Texas to Oregon, talked to viticulture experts and large winery operators, created a marketing plan and identified risk management measures.

They also sought financing from Capital Farm Credit.

"I'd always heard good things about them," says Adams, referring to Capital's vineyard financing expertise. "We needed someone big to handle this operation, and they weren't scared of an operation of this magnitude."

In 2017, Lahey Vineyards had 39 different varieties of grapes planted on 880 acres. The year's harvest, which averaged 3 to 5 tons per acres, was sold under contract to about 22 wineries, including some in Oregon.

With over 350 bonded commercial wineries in Texas, and more opening their doors each year, Lahey Vineyards is poised to help meet demand for locally grown grapes.

"Grapes are a new commodity to us. They're up and coming, and I like the challenge," says Weaver. "But I just wish we'd done it when we were younger."

Vineyard manager Doug Fairbanks, left, and co-owner Matt Adams



Left to right: Lucas, Ed and Julie Ogaz

# **SECO SPICE**

#### **Berino, New Mexico**

When Edward and Julie Ogaz founded Seco Spice in 1996 with then-partner Michael Barnes, the southern New Mexico chile company was strictly a red chile processor. But as Americans' appetite for fiery foods has grown over the past two decades, so has Seco Spice.

In 21 years, the wholesaler's chile output has increased more than twentyfold, and it now processes up to 8 million dry pounds of chile annually. Today it produces dried rosemary, custom spice blends, and a variety of conventional and organic chile products for major fast-food chains, foreign and domestic spice companies, hot sauce businesses, oleoresin extraction plants, canneries and brokers.

Such steady growth and success can be attributed in part to Ed and Julie's focus on innovation and technology. Early on, they purchased a dehydration plant. Later they bought an organic processing plant and started growing organic peppers themselves. To meet demand for exotic and super-hot chiles, they began working with seed breeders to develop new varieties, including a Scorpion variety that they're hoping will set a heat record. Their son Lucas, an agronomist, coordinates with growers and labor crews and meets with clients.

Along the way, Ed and Michael, who both hold civil engineering degrees, designed and built their own mechanical de-stemmer, and in 2015, the company installed a \$1 million steam sterilizer.

Such dramatic growth was more than their local bank could support — but not Farm Credit. When the Ogazes sought financing for their latest milliondollar upgrade — new milling and blending equipment — they returned to Ag New Mexico, FCS, where they had previously done business.

"A lot of banks here aren't really focused on agriculture," Ed says. "We were growing too much for them."

"With the help of Farm Credit, this new facility should increase our productivity by four times. That will throw us on another plateau," he says.

# LAKE MAJESTIK FARMS

## Flat Rock, Alabama

The Cornelison name is well-known in northeastern Alabama and across the Tennessee border, where Nic Cornelison and his father, Royce, operate a large commercial construction company.

But in recent years, the family has also been making a name in the Brangus cattle business with their Lake Majestik Farms at Flat Rock, Ala.

Twelve years ago, Nic purchased some cattle from his cousin to add to his own commercial herd.

"I bought my cousin's Brangus herd without any real knowledge of the breed," he says. He soon became a Brangus convert.

"When I put those cows in with my commercial Angus herd, I quickly noticed that the Brangus looked better and outperformed the other cattle," he says.

Nic soon established a breeding program that has resulted in a genetically outstanding herd. Today, Lake Majestik bulls sell for top prices, and the farm markets bull semen and embryos around the

globe. In addition, the Cornelisons sell their USDA-inspected and branded Brangus beef at the farm and to Alabama and Tennessee butcher shops and restaurants.

All of this interest has spurred the cattle operation's growth. Now close to 1,000 head of purebred and commercial black cattle, including 343 registered Brangus animals, graze Lake Majestik's gently rolling pastures.

With financing support from Alabama Farm Credit, the Lake Majestik operation has expanded to 4,600 acres in northeastern Alabama, some of which the Cornelison family has placed into conservation easements.

"They have really done a lot for not only the Brangus industry, but for this entire area," says Alabama Farm Credit Vice President and Branch Manager Jason Thomas. "They've been excellent caretakers of a lot of land around here."

In the next five to 10 years, Nic hopes he'll be able to make farming his full-time career.

"Working with my cattle and being home on the farm is what I love most," says Nic, who with his wife and two children also raises hunting dogs. "Frankly, I consider myself a very lucky guy."

Nic Cornelison



Roger Koehn, right, with daughter Katie and son Seth, who both work in the business

# SOUTHERN SEED & FEED

# Macon, Mississippi

Every town has its heartbeat. And in Macon, Miss., a tiny town near the Alabama state line, some would argue that the hub is the Southern Seed & Feed mill, a thriving seed producer and manufacturer of livestock, pet and wildlife feeds.

But it didn't start out that way. For owner Roger Koehn, the business has grown from a small traveling seed-cleaning service to become a mainstay of the local agricultural economy.

"If you'd told me where we'd be now 30 years ago, I'd never have believed you," he says.

Koehn started the company in 1983 after he discovered, while cleaning seed for local farmers, that there was no local source for quality feed. He began selling cleaned shelled corn, a product that set him apart from other millers. By the late 1980s, his Southern Seed & Feed Triple-Cleaned Corn had become known throughout eastern Mississippi. Over the years, he expanded his product line and began formulating custom blends, and the Southern Seed & Feed brand became a mainstay in farm-supply stores throughout Mississippi and Alabama.

Today, Southern Seed & Feed maintains a collaborative relationship with the region's farming and trucking industries, purchasing grain and seed almost exclusively from local farmers, employing 57 full-time staff members and contracting with a number of local truckers.

In 2013, Mississippi Land Bank financed an expansion of the mill's off-loading area. Four years later, the Farm Credit lender financed a mill upgrade that will allow the company to manufacture pelleted feed on site and potentially purchase more grains from local farmers.

"The company greatly benefits this area," says Koehn's lender, Bart Harris, vice president and branch manager of Mississippi Land Bank. "The amount of grain and seed that is purchased by Southern Seed & Feed from local farmers and producers makes the company a valuable asset to our local farm community."



Left to right: David King, Dr. Terry King and Jay Yates

# **KINGSLAND RANCH**

#### West Monroe, Louisiana

Diners at Restaurant Sage in West Monroe, La., might be surprised to learn that the contemporary farm-to-table eatery is owned by local heart specialist Dr. Terry King and his wife, Nancy, and son Brady. They might be even more surprised to know that some of the beef served at Sage is produced by the doctor, himself.

King, who practices pediatric cardiology, raises Red Brangus, Angus and Hereford cattle with his son David King and stepson, Jay Yates, on their 850-acre Kingsland Ranch. The operation focuses on producing pasture-raised beef for the health-conscious consumer and marketing it through local retail outlets and restaurants and direct to the public.

"We use no antibiotics or hormones. We make our own feed, so we know what's in it. If a calf is sick, then we remove it from the line, treat it, and then sell it for slaughter to someone else," King says.

Reared on a South Texas ranch, where he worked cattle from horseback and "knew where our food came from and what was

in it," King held a lifelong dream to have his own ranch. Medical school, military service and his early career intervened, but after opening a medical practice in West Monroe 40 years ago, he started to pursue his goal.

"I bought my first 75 acres in 1978," King recalls. "With help from the Louisiana Land Bank, I've been chipping away at the land around us ever since, buying up 40 acres here and 400 acres there."

His longtime loan officer, Louisiana Land Bank Vice President Keith Post, has witnessed the transformation of Kingsland Ranch by the cardiologist and his sons, who've spent hundreds of hours clearing brush and timber.

"Dr. King has bought parcel after parcel and slowly brought the land into its full potential by making improvements," says Post.

"I love what I do, every bit of it, both at the clinic and on the ranch," King says. "And Kingsland Ranch has certainly been a wonderful adventure."

# Five-Year Summary of Selected Financial Data

Farm Credit Bank of Texas

(dollars in thousands)		2017		2016		2015		2014		2013
Balance Sheet Data	¢	202.071	¢	010 000	¢	567.503	¢	450 447	¢	604.061
Cash, federal funds sold and overnight investments	\$	303,071	\$	218,380	\$	,	\$	450,447	\$	624,261
Investment securities		5,144,985		4,831,375		4,445,105		4,086,391		3,637,855
Loans		17,085,177		15,909,403		14,771,006		13,259,837		11,778,741
Less allowance for loan losses		7,639		7,650		5,833		10,112		13,660
Net loans		17,077,538		15,901,753		14,765,173		13,249,725		11,765,081
Other property owned		-		-		438		10,310		13,812
Other assets		311,011		270,890		211,356		205,143	_	158,693
Total assets	\$	22,836,605	\$	21,222,398	\$	19,989,575	\$	18,002,016	\$	16,199,702
Obligations with maturities of one year or less	\$	7,890,433	\$	9,082,248	\$	7,995,821	\$	6,474,695	\$	5,288,760
Obligations with maturities greater than one year		13,278,288		10,517,898		10,440,176		10,048,100		9,517,695
Total liabilities		21,168,721		19,600,146		18,435,997		16,522,795		14,806,455
Preferred stock		600,000		600,000		600,000		600,000		600,000
Capital stock		301,239		284,038		255,823		233,468		220,543
Allocated retained earnings		39,144		33,171		27,203		22,508		20,314
Unallocated retained earnings		779,403		737,622		697,883		643,067		585,503
Accumulated other comprehensive loss		(51,902)		(32,579)		(27,331)		(19,822)		(33,113)
Total shareholders' equity		1,667,884		1,622,252		1,553,578		1,479,221		1,393,247
Total liabilities and shareholders' equity	\$	22,836,605	\$	21,222,398	\$	19,989,575	\$	18,002,016	\$	16,199,702
Statement of Income Data										
Net interest income	\$	251,321	\$	238,321	\$	232,468	\$	226,659	\$	215,720
Negative provision (provision) for credit losses	Ŷ	1,673	Ψ	(563)	Ψ	2,506	Ψ	5,433	Ψ	(6,253)
Noninterest expense, net		(57,008)		(45,352)		(42,735)		(43,832)		(29,647)
Net income	\$	195,986	\$	192,406	\$	192,239	\$	188,260	\$	179,820
Financial Ratios (unaudited)						`				
Rate of return on:										
Average assets		0.89%		0.92%		1.02%		1.12%		1.16%
Average shareholders' equity		11.51		11.67		12.22		12.68		12.31
Net interest income to average earning assets		1.16		1.18		1.27		1.39		1.44
Net (recoveries) charge-offs to average loans		(0.01)		(0.01)		0.01		0.02		0.09
Total shareholders' equity to total assets		7.30		7.64		7.77		8.21		8.59
Debt to shareholders' equity (:1)		12.69		12.08		11.87		11.18		10.64
Allowance for loan losses to total loans		0.05		0.05		0.04		0.08		0.12
Common equity tier 1 ratio		10.52		n/a		n/a		n/a		n/a
Tier 1 capital ratio		16.59		n/a		n/a		n/a		n/a
Total capital ratio		16.68		n/a		n/a		n/a		n/a
Permanent capital ratio		16.60		17.40		17.74		18.33		21.64
Tier 1 leverage ratio		7.33		n/a		n/a		n/a		n/a
UREE leverage ratio		3.08		n/a		n/a		n/a		n/a
Total surplus ratio		n/a		14.98		15.48		15.86		17.29
Core surplus ratio		n/a		9.97		9.88		10.07		10.12
Net collateral ratio		n/a		107.35		107.70		108.00		108.67
Net Income Distributions										
Net income distributions declared and accrued	<b>^</b>	E0.050	<u>~</u>		<b>~</b>		•		¢	40.001
Preferred stock cash dividends Patronage distributions declared	\$	50,250	\$	50,250	\$	50,250	\$	50,250	\$	49,931
Cash	\$	97,982	\$	96,449	\$	82,478	\$	76,414	\$	71,505
Allocated retained earnings		5,973		5,968		4,695				

# Average Balances and Net Interest Earnings

Farm Credit Bank of Texas

#### (unaudited) December 31,

		2017			2016			2015	
(dellara in the usenda)	Average	Interest	Average	Average	Interact	Average	Average	Interact	Average
(dollars in thousands)	Balance	Interest	Rate	Balance	Interest	Rate	Balance	Interest	Rate
Assets									
Investment securities and federal funds sold	\$ 5.098.250	\$ 84.755	1.66%	\$ 4.782.499	\$ 69.353	1.45%	\$ 4.246.242	\$ 60,563	1.43%
Loans	3 5,098,250 16,520,111	\$ 64,755 462,765	2.80	15,488,896	411,159	2.65	34,240,242 13,988,057	367,797	2.63
Total interest-earning	10,320,111	402,705	2.00	13,400,030	411,133	2.00	13,300,037	507,757	2.00
assets	21,618,361	547,520	2.53	20,271,395	480,512	2.37	18,234,299	428,360	2.35
Cash	131,080	047,020	2.00	325,672	400,012	2.01	346,075	420,000	2.00
Accrued interest receivable	47,703			42,973			41,443		
Allowance for loan losses	(8,112)			(6,922)			(7,985)		
Other noninterest-earning	(0,112)			(0,322)			(1,000)		
assets	243,025			198,936			173,144		
Total average assets	\$22,032,057			\$20,832,054			\$18,786,976		
Liabilities and Shareholders' Equity									
Bonds, medium-term notes									
subordinated debt, net	\$17,856,961	\$274,884	1.54%	\$16,321,944	\$228,466	1.40%	\$15,184,487	\$191,775	1.26%
Discount notes, net	2,289,288	21,315	0.93	2,702,217	13,725	0.51	1,891,208	4,117	0.22
Total interest-bearing									
liabilities	20,146,249	296,199	1.47	19,024,161	242,191	1.27	17,075,695	195,892	1.15
Noninterest-bearing liabilities	183,024			158,764			138,323		
Total liabilities	20,329,273			19,182,925			17,214,018		
Shareholders' equity and									
retained earnings	1,702,784			1,649,129			1,572,958		
Total average liabilities	¢00.000.057			¢00.000.054			¢10 700 070		
and shareholders' equity	\$22,032,057			\$20,832,054			\$18,786,976		
Net interest rate spread		\$251,321	1.06%		\$238,321	1.10%		\$232,468	1.20%
Net interest margin			1.16%			1.18%			1.27%
not into out murgin			1.10/0			1.10/0			1.21/0



The following commentary is a discussion and analysis of the financial position and the results of operations of the Farm Credit Bank of Texas (the bank or FCBT) for the years ended December 31, 2017, 2016 and 2015. The commentary should be read in conjunction with the accompanying financial statements, notes to the financial statements (notes) and additional sections of this annual report. The accompanying financial statements were prepared under the oversight of the bank's audit committee.

The bank, together with its affiliated associations (the district), are part of the federally chartered Farm Credit System (System). The district serves Texas, Alabama, Mississippi, Louisiana and most of New Mexico. The bank provides funding to the district associations, which, in turn, provide credit to their borrower-shareholders. As of December 31, 2017, the bank served one Federal Land Credit Association (FLCA), 13 Agricultural Credit Associations (ACAs) and certain Other Financing Institutions (OFIs) which are not part of the System. The FLCA and ACAs are collectively referred to as associations. See Note 1, "Organization and Operations," to the accompanying financial statements for an expanded description of the structure and operations of the bank.

# Forward-Looking Information

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

- political, legal, regulatory, and economic conditions and developments in the United States and abroad;
- economic fluctuations in the agricultural, rural utility, international and farm-related business sectors;
- weather-related, disease and other adverse climatic or biological conditions that periodically occur that impact agricultural productivity and income;
- changes in United States government support of the agricultural industry and the System as a government-sponsored enterprise, as well as investor and rating agency reactions to events involving the U.S. government and government-sponsored enterprises; and
- actions taken by the Federal Reserve System in implementing monetary policy.

# Critical Accounting Policies

The financial statements are reported in conformity with accounting principles generally accepted in the United States of America. Our significant accounting policies are critical to the understanding of our results of operations and financial position because some accounting policies require us to make complex or subjective judgments and estimates that may affect the value of certain assets or liabilities. We consider these policies critical because management has to make judgments about matters that are inherently uncertain. For a complete discussion of significant accounting policies, see Note 2, "Summary of Significant Accounting Policies," to the accompanying financial statements. The following is a summary of certain critical policies.

- Reserves for credit losses The bank records reserves for credit losses, consisting of an allowance for loan losses, reported as a reduction of loans on the bank's balance sheet, and a reserve for losses on unfunded commitments, including letters of credit and unused loan commitments, which is reported as a liability on the bank's balance sheet. These reserves are management's best estimate of the amount of probable losses existing in and inherent in our loan portfolio. The allowance for loan losses and reserves for credit losses are increased through provisions for credit losses and loan recoveries and are decreased through loan loss reversals and loan charge-offs. The allowance for loan losses is determined based on a periodic evaluation of the loan portfolio, which identifies loans that may be impaired. Each of these individual loans is 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. If the present value of expected future cash flows (or, alternatively, the fair value of the collateral) is less than the recorded investment in the loan (including accrued interest, net deferred loan fees or costs, and unamortized premium or discount), an impairment is recognized by making an addition to the allowance for loan losses with a corresponding charge to the provision for credit losses or by similarly adjusting an existing valuation allowance.
- Valuation methodologies Management applies various valuation methodologies to assets and liabilities that often involve a significant degree of judgment, particularly when liquid markets do not exist for the particular items being valued. Quoted market prices are used when estimating fair values for certain assets for which an observable liquid market exists, such as most investment securities. Third-party valuation services are utilized by management to obtain fair values for the majority of the bank's investments. Management utilizes significant estimates and assumptions to value items for which an observable liquid market does not exist. Examples of these items include impaired loans, other postretirement benefit obligations, and certain derivative 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 results, which could have material positive or negative effects on the bank's results of operations.

Pensions and retirement plans — The bank and its related associations
participate in the district's defined benefit retirement plan (DB plan).
The plan is noncontributory, and benefits are based on salary and
years of service. In addition, the bank and its related associations also
participate in defined contribution retirement savings plans.

The structure of the district's single-employer DB plan is characterized as multiemployer for participating employers' accounting purposes, since neither the assets, liabilities nor cost of any plan is segregated or separately accounted for by participating employers (bank and associations). No portion of any surplus assets is available to any participating employer. Participating employers are jointly and severally liable for the plan obligations. Upon withdrawal or termination of their participation in the plan, a participating employer must pay all associated costs of its withdrawal from the plan, including its unfunded liability (the difference between replacement annuities and the withdrawing employer's share of allocated plan assets). As a result, participating employers of the plan only recognize as cost the required contributions for the period and a liability for any unpaid contributions required for the period of their financial statements. Plan obligations, assets and the components of annual benefit expenses are recorded and reported upon combination only. The bank records current contributions to the DB plan as an expense in the current year.

The liability and expense for other postemployment benefits is determined actuarially based on certain assumptions, including discount rate and mortality assumptions. The discount rate is used to determine the present value of our future benefit obligations. We selected the discount rate by reference to the Aon Hewitt AA Only Above-Median Yield Curve, actuarial analyses and industry norms. The Aon Hewitt yield curves are determined based on actual corporate bond yields for bonds rated AA as of the measurement date. The discount rate at December 31, 2017, was 4.00 percent, compared to 4.60 percent at December 31, 2016.

#### **OVERVIEW**

#### General

The bank's loan portfolio totaled \$17.09 billion at December 31, 2017, a 7.4 percent increase from the prior year. The increase in the bank's loan portfolio was mainly due to an increase in the bank's direct loans to associations and an increase in the bank's capital markets loan portfolio. The bank's net income for 2017 was \$195,986, an increase of \$3,580 compared to 2016. The increase in net income was the result of a \$13,000 increase in net interest income and a \$2,236 decrease in the provision for credit losses, offset by a \$6,441 increase in non-interest expenses and a \$5,215 decrease in noninterest income. The increase in net interest income was the result of a \$1.35 billion increase in average earning assets, net of a reduction in the bank's net interest rate spread. The bank's net interest rate spread declined by 4 basis points due to an increase in the cost of debt of

20 basis points, offset by an increase in interest-earning assets of 16 basis points.

The bank's net interest margin was 1.16 percent for 2017, as compared with 1.18 percent for 2016. The net interest margin was negatively impacted by a 4-basis-point decrease in the net interest rate spread to 1.06 percent for 2017, as compared with 1.10 percent for 2016 and was positively impacted by a 2-basis-point increase in income earned on earning assets funded by non-interest-bearing sources (principally capital).

#### Funding

During 2017, the System continued to have reliable access to the debt capital markets to support its mission of providing credit to farmers, ranchers and other eligible borrowers. Investor demand for Systemwide debt securities has remained favorable across all products. The bank has continued to have reliable access to funding at competitive rates and terms necessary to support our lending and business operations. Future ratings action affecting the U.S. government and related entities (including the System) may affect our borrowing cost and/or limit our access to the debt capital markets, reducing our flexibility to issue debt across the full spectrum of the yield curve.

## Conditions in the Texas District

After receiving adequate rainfall to support agricultural production throughout the first three quarters of 2017, a lack of precipitation during the fourth quarter has begun to impact the southern half of the United States and the central Plains of Texas. Although the prevalence of drought conditions has expanded in the district, the severity of the moisture deficit has remained limited thus far. According to the U.S. Climate Prediction Center, dry weather is likely to prevail in the southern half of the U.S. through at least March 2018, as below-average sea surface temperatures in the Pacific Ocean are expected to continue to affect weather patterns in the region.

Field crop producers in the district generated historically strong yields overall during 2017. Despite localized losses along the Gulf Coast region due to Hurricane Harvey, Texas cotton farmers harvested the second-highest amount of the fiber per acre on record. In addition to near-record production, cotton producers in the district have benefited from recent price increases. Favorable weather conditions drove U.S. grain and oilseed production to another bumper year in 2017, with corn yields per acre and total soybean production both exceeding the records set in the prior season. The resulting excess supply has driven farm prices for both crops marginally lower year-over-year. For farmers in the district, however, lower prices for corn and soybeans were offset by improved output per acre relative to the previous season.

According to preliminary estimates, U.S. beef production reached the highest level observed since 2011 in 2017, and pork and chicken output both set record highs. In spite of increasing supplies, strong domestic and foreign demand for protein stabilized prices for beef, pork and chicken during 2017. Cattle ranchers earned relatively high returns over cash costs for the seventh consecutive year. Feedlots generated some of the highest cattle finishing margins on record during the first half of 2017, which allowed them to recover a portion of the losses that were absorbed by the industry during 2015 and 2016. In mid-2017, wholesale chicken prices increased to levels not seen since 2014, which led to aboveaverage profits for broiler producers during the year. Meanwhile, pork prices were uncharacteristically strong at the end of the fourth quarter 2017. Total U.S. production of red meat and poultry is expected to rise during each of the next two years. Rising output of meat, coupled with saturated domestic markets for many products, is likely to make protein prices increasingly dependent on export demand in the coming months. Milk prices fell during the fourth quarter, and the dairy industry is preparing for this trend to continue through mid-2018.

The economic disruption caused by Hurricane Harvey in and around Houston was short-lived, as Texas non-farm payrolls increased by an annualized rate of over six percent during October. Overall, non-farm employment is expected to have risen by about 2.4 percent in Texas during 2017, above the state's long-term average employment growth rate of 2.1 percent. Through November 2017, employment growth was also positive year-to-date in Alabama, Louisiana, Mississippi and New Mexico.

The district portfolio continues to be supported by strong credit quality, high levels of capital, low advance rates and diversification.

# **RESULTS OF OPERATIONS**

#### Net Income

The bank's net income of \$195,986 for the year ended December 31, 2017, reflects an increase of 1.9 percent over 2016, while 2016 net income of \$192,406 increased by 0.09 percent from 2015. The return on average assets was 0.89 percent for the year ended December 31, 2017, down from 0.92 percent reported for the year ended December 31, 2016. The return on average assets was 1.02 percent for the year ended December 31, 2015.

Changes in the major components of net income for the referenced periods are outlined in the table below and in the discussion following:

	Year Ended December 31,					
	20	17 vs. 2016	201	l6 vs. 2015		
Net income (prior period)	\$	192,406	\$	192,239		
Increase due to:						
Increase in interest income		67,008		52,152		
Increase in interest expense		(54,008)		(46,299)		
Increase in net interest income		13,000		5,853		
Decrease (increase) in provision						
for credit losses		2,236		(3,069)		
(Decrease) increase in						
noninterest income		(5,215)		9,781		
Increase in noninterest expense		(6,441)		(12,398)		
Total change in net income		3,580		167		
Net income	\$	195,986	\$	192,406		

Discussion of the changes in components of net income is included in the following narrative.

# Interest Income

Total interest income for the year ended December 31, 2017, was \$547,520, an increase of \$67,008, or 14.0 percent, compared to 2016. Total interest income for the year ended December 31, 2016, was \$480,512, an increase of \$52,152, or 12.2 percent, compared to 2015.

The increase for 2017 was due primarily to a \$1.35 billion increase in average earning assets and a 16-basis-point increase in the average yield. The increase for 2016 was due primarily to a \$2.04 billion increase in average earning assets and a 2-basis-point increase in the average yield.

The following table illustrates the impact that volume and yield changes had on interest income over these periods:

	Year Ended December 31,				
	20	)17 vs. 2016	20	16 vs. 2015	
Increase in average earning assets Average yield (prior year)	\$	1,346,966 2.37%	\$	2,037,096 2.35%	
Interest income variance attributed to change in volume		31,923		47,872	
Average earning assets (current year) Increase in average yield		21,618,361 0.16%		20,271,395 0.02%	
Interest income variance attributed to change in yield Net change in interest income	¢	35,085 67.008	¢	4,280 52,152	
Net change in interest income	à	07,000	þ	52,152	

# Interest Expense

Total interest expense for the year ended December 31, 2017, was \$296,199, an increase of \$54,008, or 22.3 percent, compared to the same period of 2016. Total interest expense for the year ended December 31, 2016, was \$242,191, an increase of \$46,299, or 23.6 percent, compared to the same period of 2015. The increase in 2017 was due primarily to the effects of a 20-basis-point increase in the average cost of debt and a \$1.12 billion increase in average interest-bearing liabilities. The increase for 2016 was due primarily to the effects of a 12-basis-point increase in the average cost of debt and a \$1.95 billion increase in average interest-bearing liabilities.

During 2017, 2016 and 2015, the bank was able to reduce its interest expense by calling and replacing debt totaling \$1.03 billion, \$7.92 billion and \$5.57 billion, respectively.

The following table illustrates the impact that volume and rate changes had on interest expense over these periods:

	Year Ended December 31,					
	20	)17 vs. 2016	2016 vs. 201			
Increase in average						
interest-bearing liabilities	\$	1,122,088	\$	1,948,466		
Average rate (prior year)		1.27%		1.15%		
Interest expense variance attributed to change in volume		14,251		22,407		
0		14,201		22,407		
Average interest-bearing liabilities (current year)		20,146,249		19,024,161		
Increase in average rate		0.20%		0.12%		
Interest expense variance						
attributed to change in rate		39,757		23,892		
Net change in interest expense	\$	54,008	\$	46,299		

## Net Interest Income

Net interest income, the excess of interest income over interest expense, increased by \$13,000 from 2016 to 2017, and increased by \$5,853 from 2015 to 2016. The increase in 2017 was due to the effects of a \$1.35 billion increase in average interest-earning assets, partially offset by a 4-basis-point decrease in the interest rate spread, which is the difference between the average rate received on interest-earning assets and the average rate paid on interest-bearing debt. The bank's increase in average earning assets included growth in direct notes to district associations, the bank's capital markets loan portfolio and the investment portfolio.

Net interest income in 2016 was \$5,853 greater than 2015. The increase in 2016 was due to the effects of a \$2.04 billion increase in average interest-earning assets, partially offset by a 10-basis-point decrease in the interest rate spread.

# ANALYSIS OF NET INTEREST INCOME

		201	7			201	6			2015			
	Aver	age Balance	In	iterest	Aver	age Balance	li	nterest	Aver	age Balance	Ir	nterest	
Loans Investments	\$	16,520,111 5,098,250	\$	462,765 84,755	\$	15,488,896 4,782,499	\$	411,159 69,353	\$	13,988,057 4,246,242	\$	367,797 60,563	
Total earning assets Interest-bearing liabilities		21,618,361 20,146,249		547,520 296,199		20,271,395 19,024,161		480,512 242,191		18,234,299 17,075,695		428,360 195,892	
Impact of capital Net Interest Income	\$	<u>1,472,112</u> =	\$	251,321	\$	<u>1,247,234</u>	\$	238,321	\$	<u>1,158,604</u> =	\$	232,468	
Yield on loans Yield on investments Yield on earning assets Cost of interest-bearing liat Interest rate spread Impact of capital Net interest income/averag		assets	-	Average Yield 2.80% 1.66% 2.53% 1.47% 1.06% 0.10% 1.16%	-		_	Average Yield 2.65% 1.45% 2.37% 1.27% 1.10% 0.08% 1.18%				Average Yield 2.63% 1.43% 2.35% 1.15% 1.20% 0.07% 1.27%	

# Provision for Credit Losses

The bank's negative provision for credit losses for 2017 totaled \$1,673, a decrease of \$2,236 from the \$563 provision recorded in for 2016. The negative provision recognized in 2017 included recoveries of \$1,449 and a decrease in general reserves.

The \$563 provision for credit losses in 2016 included a \$1,814 increase in the general allowance for loan losses due to downgrades on two energy loans and a \$304 increase in general reserves on unfunded commitments and letters of credit (LOC), offset by recoveries of \$1,558.

# Noninterest Income

Noninterest income for the year ended December 31, 2017, was \$45,204, a decrease of \$5,215, or 10.3 percent, compared to 2016. The decrease was primarily due to a \$2,679 decrease in prepayment penalty fees, a \$1,206 decrease in gain on sale of loans, a \$1,091 decrease in patronage income, and a \$466 decrease in services billed to associations, offset by a \$544 increase in Rural Business Investment Companies (RBICs) income.

Noninterest income for the year ended December 31, 2016, was \$50,419, an increase of \$9,781, or 24.1 percent, compared to 2015. The

increase was primarily due to a \$6,052 increase in patronage income, a \$5,088 increase in gain on sale of loans, and a \$3,133 decrease in loss due to the write-off of loan accounting software no longer deemed to be a usable asset in 2015, offset by \$5,779 of dividends received in 2015 on the preferred stock of an ethanol facility in other property owned (OPO).

# Noninterest Expenses

Noninterest expenses totaled \$102,212 for 2017, an increase of \$6,441, or 6.7 percent, from 2016. This increase was primarily due to a \$4,692 increase in professional and contract services and a \$2,283 increase in salaries and benefits, offset primarily by a \$947 decrease in Farm Credit System Insurance Corporation (FCSIC) premiums.

Professional and contract services increased primarily due to an increase in consulting and legal fees. The increase in salaries and benefits included a \$2,419 increase in compensation. FCSIC premiums decreased due to a rate decrease on outstanding debt from 18 basis points in 2016 to 15 basis points in 2017.

Noninterest expenses totaled \$95,771 for 2016, an increase of \$12,398, or 14.9 percent, from 2015. This increase was primarily due to a \$3,667 increase in Farm Credit System Insurance Corporation

(FCSIC) premiums, a \$3,529 decrease in gains on OPO, a \$1,672 increase in occupancy and equipment, a \$1,523 increase in salaries and benefits, and a \$1,504 increase in professional and contract services.

FCSIC premiums increased due to a rate increase on outstanding debt from 13 basis points in 2015 to 16 basis points for the first half of 2016 and 18 basis points for the second half of 2016, and to an increase in debt required to fund earning asset growth. The increase in occupancy and equipment included a \$1,248 increase in computer expenses. The increase in salaries and benefits included a \$2,450 increase in compensation, offset by an \$852 increase in capitalization of salaries and benefits as a part of internally developed software.

Operating expense (salaries and employee benefits, occupancy and equipment, FCSIC premiums and other operating expenses) statistics are set forth below for each of the three years ended December 31:

	2017	2016	2015
Excess of net interest income over operating expense Operating expense as a percentage	\$ 149,109	\$ 142,989	\$ 146,005
Operating expense as a percentage of net interest income Operating expense as a percentage of net interest income and	40.7%	40.0%	37.2%
noninterest income	34.5	33.0	31.7
Operating expense as a percentage of average loans	0.62	0.62	0.62
Operating expense as a percentage of average earning assets	0.47	0.47	0.47

# CORPORATE RISK PROFILE

#### Overview

The bank is in the business of funding and participating in agricultural and other loans which requires us to take certain risks in exchange for compensation for the risks undertaken. Management of risks inherent in our business is essential for our current and longterm financial performance. Our goal is to mitigate risk, where appropriate, and to properly and effectively identify, measure, price, monitor and report risks in our business activities.

The major types of risk to which we have exposure are:

- structural risk risk inherent in our business and related to our structure (an interdependent network of 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 our operating results and financial condition;
- liquidity risk risk of loss arising from the inability to meet obligations when they come due without incurring unacceptable losses;
- operational risk risk of loss resulting from inadequate or failed internal processes or systems, errors by employees 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 System

entities, including the impact of investors' perceptions about agriculture, the reliability of district or System financial information or the overt actions of any district or System institution; and

• political risk — risk of loss of support for the System and agriculture by the federal and state governments.

## Structural Risk Management

Structural risk results from the fact that the bank, along with its related associations, is part of the Farm Credit System (System), which is composed of banks and associations that are cooperatively owned, directly or indirectly, by their borrowers. While System institutions are financially and operationally interdependent, this structure at times requires action by consensus or contractual agreement. Further, there is structural risk in that only the banks are jointly and severally liable for the payments of Systemwide debt securities. Although capital at the association level reduces a bank's credit exposure with respect to its direct loans to its affiliated associations, this 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 — 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 (CIPA score) is calculated that measures the financial condition and performance of each district using various ratios that take into account the district's and bank's capital, asset quality, earnings, interest-rate risk and liquidity. The CIPA score is then compared against the agreed-upon standard of financial condition and performance that each district must achieve and maintain. The measurement standard established under the CIPA is intended to provide an early-warning mechanism to assist in monitoring the financial condition of each district. The performance standard under the CIPA is based on the average CIPA score over a four-quarter period.

The MAA is designed to provide for the timely identification and resolution of individual bank financial issues and establishes performance criteria and procedures for the banks that provide operational oversight and control over a bank's access to System funding.

As required by the MAA, the banks and the Funding Corporation undertake a periodic formal review of the MAA to consider whether any amendments are appropriate. In connection with the most recent review, the banks and the Funding Corporation agreed to enter into the Third Amended and Restated MAA, which was effective on January 1, 2017.

Periodically, the CIPA model and the MAA performance criteria are reviewed to take into consideration current performance standards in the financial services industry or regulatory changes. As a result of the changes to regulatory capital ratio requirements that became effective January 1, 2017, the performance criteria set forth in the MAA are as follows:

- the defined CIPA scores,
- the tier 1 leverage ratio of a bank, and
- the total capital ratio of a bank.

The bank's tier 1 leverage ratio is tier 1 capital (primarily unallocated retained earnings, the bank's common stock, and preferred stock less certain regulatory required deductions) divided by nonrisk adjusted assets. The bank's total capital ratio is the sum of the bank's common equity tier 1 capital, additional tier 1 capital, and tier 2 capital elements, minus regulatory deductions and adjustments, divided by risk-adjusted assets.

If a bank fails to meet the above performance criteria, it will be placed into one of three categories. Each category gives the other System banks progressively more control over a bank that has declining financial performance under the MAA performance criteria. A "Category I" bank is subject to additional monitoring and reporting requirements; a "Category II" bank's ability to participate in issuances of Systemwide debt securities may be limited to refinancing maturing debt obligations; and a "Category III" bank may not be permitted to participate in issuances of Systemwide debt securities. A bank exits these categories by returning to compliance with the agreed-upon performance criteria.

The criteria for the tier 1 leverage ratio and the total capital ratio are:

	Tier 1	Total
	Leverage Ratio	Capital Ratio
Category I	<5.0%	<10.5%
Category II	<4.0%	<8.0%
Category III	<3.0%	<7.0%

During the year ended December 31, 2017, all banks met the agreed-upon standards for the tier 1 leverage ratio and total capital ratios required by the MAA that became effective January 1, 2017. As of December 31, 2017, all banks met the agreed-upon standard of financial condition and performance required by the CIPA. During the three years ended December 31, 2017, the banks met the defined CIPA score required by the MAA.

## Credit Risk Management

Credit risk arises from the potential inability of an obligor to meet its repayment obligation and exists in our outstanding loans, letters of credit, unfunded loan commitments, investment portfolio and derivative counterparty credit exposures. We manage credit risk associated with our lending activities through an assessment of the credit risk profile of an individual borrower. We set our own underwriting standards and lending policies, approved by the board of directors, that provide direction to loan officers. Underwriting standards include, among other things, an evaluation of:

- character borrower integrity and credit history;
- capacity repayment capacity of the borrower based on cash flows from operations or other sources of income;
- collateral protects the lender in the event of default and represents a potential secondary source of loan repayment;
- capital ability of the operation to survive unanticipated risks; and
- conditions requirements that govern intended use of loan funds.

The retail credit risk management process begins with an analysis of the borrower's credit history, repayment capacity and financial position. Repayment capacity focuses on the borrower's ability to repay the loan based on cash flows from operations or other sources of income, including non-farm income. Real estate loans with terms greater than 10 years must be secured by first liens on the real estate (collateral). As required by Farm Credit Administration regulations, each institution that makes loans on a secured basis must have collateral evaluation policies and procedures. Real estate loans with terms greater than 10 years may be made only in amounts up to 85 percent of the original appraised value of the property taken as security or up to 97 percent of the appraised value if guaranteed by a state, federal or other governmental agency. The actual loan to appraised value when loans are made is generally lower than the statutory maximum percentage. Appraisals are required for loans of more than \$250,000. This credit risk-rating process incorporates objective and subjective criteria to identify inherent strengths and weaknesses and risks in a particular relationship.

This credit risk-rating process uses a two-dimensional loan rating structure, incorporating a 14-point risk-rating scale to identify and track the probability of borrower default and a separate 4-point scale addressing loss given default. The 14-point risk-rating scale provides for nine "acceptable" categories, one "other assets especially mentioned" (OAEM) category, two "substandard" categories, one "doubtful" category and one "loss" category. The loss given default scale establishes ranges of anticipated economic loss if the loan defaults. The calculation of economic loss includes principal and interest as well as collections costs, legal fees and staff costs.

By buying and selling loans or interests in loans to or from other institutions within the System or outside the System, we limit our exposure to either a borrower or commodity concentration. This also allows us to manage growth and capital, and to improve geographic diversification.

Portfolio credit risk is also evaluated with the goal of managing the concentration of credit risk. Concentration risk is reviewed and measured by industry, commodity, geography and customer limits.

#### Loans

The bank's loan portfolio consists of direct notes receivable from district associations and qualifying other financing institutions (OFIs), the bank's capital markets loan portfolio and other bankowned loans. See Note 1, "Organization and Operations," Note 2, "Summary of Significant Accounting Policies" and Note 4, "Loans and Reserves for Credit Losses," to the accompanying financial statements for further discussions.

The bank's capital markets loan portfolio predominantly includes participations, syndications and purchased whole loans, along with other financing structures within our lending authorities. The bank also refers to the capital markets portfolio as participations purchased. In addition to purchasing loans from our district associations, which may exceed their hold limits, the bank seeks 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 the bank or sub-participated to the associations or to other System entities. Gross loan volume of \$17.09 billion at December 31, 2017, reflected an increase of \$1.18 billion, or 7.4 percent, from December 31, 2016. The balance of \$15.91 billion at December 31, 2016, reflected an increase of \$1.14 billion, or 7.7 percent, from the \$14.77 billion balance at December 31, 2015. The increase in the loan portfolio from 2016 to 2017 is mainly attributable to a \$959,104 increase in the bank's direct loans to associations and OFIs and a \$216,670 increase in the bank's capital markets loan portfolio.

The following table presents each loan category as a percentage of the total loan portfolio:

	December 31,				
	2017	2016	2015		
Direct notes receivable from district associations					
and OFIs	<b>67.8%</b> 66.8% 65.1%				
Participations purchased	32.2	33.2	34.9		
Other bank-owned loans	-	-	-		
Total	100.0%	100.0%	100.0%		

The following table discloses the credit quality of the bank's loan portfolio:

	December 31,					
	<b>2017</b> 2016 2015					
Acceptable	94.2%	99.3%	98.2%			
OAEM (special mention)	<b>5.5</b> 0.5 1.7					
Substandard/Doubtful	<b>0.3</b> 0.2 0.1					
Total	<b>100.0%</b> 100.0% 100.0%					

The decrease in acceptable loans credit quality (as a percentage of total loans) as of December 31, 2017, compared to December 31, 2016, is mainly driven by the downgrade of the direct note to one of our affiliated associations to the special mention credit quality classification during the second quarter of 2017. As of December 31, 2017, the direct note totaled \$890,952. The bank's loans to our affiliated associations are collateralized by substantially all of the association assets; the earnings, capital and loan loss reserves of the association provide a buffer against losses in their retail portfolio. While the downgrade reflects control weaknesses at the affiliated association, the bank has not made any provision for loan loss or recorded any allowance for credit loss related to our direct note to that association because of the collateralization of the direct loan and other mitigating factors.

The bank's capital markets loan portfolio's concentration of credit risk in various commodities is shown in the following table at December 31:

	Percentage of Portfolio					
Commodity Group	2017	2016	2015			
Rural electric	22%	24%	21%			
Livestock	10	10	9			
Grain mill products	7	7	7			
Dairy	7	6	5			
Telecommunication	6	6	7			
Miscellaneous food products	6	6	6			
Meat products	5	5	4			
Timber	4	5	5			
Other	33	31	36			
Total	100%	100%	100%			

The diversity of states underlying the bank's capital markets loan portfolio is reflected in the following table:

		December 31,				
	2017	2016	2015			
Texas	15%	15%	12%			
Illinois	6	7	9			
Georgia	6	7	6			
California	5	4	4			
Minnesota	4	5	4			
All other states	64	62	65			
Total	100%	100%	100%			

The balance of the bank's association direct notes sold to another System bank was \$3.85 billion at December 31, 2017, 2016 and 2015, respectively. The bank's OFI direct notes sold to another System bank totaled \$1,500 at December 31, 2017, and was \$11,190 and \$15,900 at December 31, 2016 and December 31, 2015.

In December 2015, the bank transferred a loan with a par value of \$5.0 million to a loans held for sale category included in "Other assets" at its fair value of \$4.85 million. A loss of \$77 was recognized upon adjustment of the loan to fair value in December 2015. The loan was subsequently sold in February 2016 with a gain recognition of \$75.

#### Association Direct Notes

As the preceding table illustrates, 67.8 percent of the bank's loan portfolio consisted of direct notes from associations and OFIs at December 31, 2017. Terms of direct notes to associations and OFIs are specified in a separate general financing agreement between each association and OFI and the bank, and all assets of each association secure the direct notes to the bank. Each association is a federally chartered instrumentality of the United States and is regulated by the Farm Credit Administration (FCA). See Note 1, "Organization and Operations," to the accompanying financial statements for further discussion of the Farm Credit System.

The credit exposure of the bank's loans to associations, which are evidenced by direct notes with full recourse, is dependent on the associations' creditworthiness and the ability of their borrowers to repay loans made to them. The credit risk to the bank is mitigated by diversity in the associations' loan portfolios in terms of underlying collateral and income sources, geography and range of individual loan amounts. In addition, the risk-bearing capacities of the associations are assessed quarterly by the bank and are currently deemed adequate to absorb most interest-related shocks. Each association maintains an allowance for loan losses determined by its management and is capitalized to serve its unique market area. Associations are subject to FCA regulations concerning minimum capital, loan underwriting and portfolio management, and are audited annually by independent auditors. In addition, associations are required by the general financing agreement with the bank to provide copies of their risk-based internal credit review reports and other audit/examination reports. The associations are required to maintain a risk-based internal credit review program including procedures addressing: reviewer qualification and independence, review frequency, accuracy of risk ratings, credit administration, regulatory compliance, scope selection, documentation of audit committee approval of reviewers and audit committee review of the internal control reports. As of December 31, 2017, all

associations were in compliance with their general financing agreements with the bank, including one in compliance with conditions contained in a waiver of default.

Loans held by district associations totaled \$18.20 billion at December 31, 2017, an increase of \$1.10 billion, or 6.4 percent, from loan volume at December 31, 2016, due to more robust lending at the district associations. In 2016 and 2015, association loan volume increased by \$1.11 billion and \$1.44 billion, respectively.

The combined associations' concentration of credit risk in various agricultural commodities is shown in the following table at December 31:

	Percentage of Portfolio							
Commodity Group	2017	<b>2017</b> 2016 2015						
Livestock	40%	40%	41%					
Crops	17	17	17					
Timber	9	9	9					
Cotton	5	5	5					
Poultry	5	5	5					
Dairy	3	3	2					
Rural home	1	2	2					
Other	20	19						
Total	100%	<b>100%</b> 100% 100%						

The diversity of states underlying the combined associations' loan portfolio is reflected in the following table:

		December 31,			
	2017	2015			
Texas	65%	65%	65%		
Alabama	9	8	8		
Mississippi	8	9	9		
Louisiana	4	4	4		
All other states	14	14	14		
Total	100%	100%	100%		

Direct notes from the associations in Texas represent the majority of the bank's direct notes from all district associations. However, these notes are collateralized by a diverse loan portfolio, both in terms of geography and underlying commodities, which helps to mitigate the concentration risk often associated with one state or locale. Associations in each state have commodity diversification that is being augmented by purchases of loan participations.

The combined associations' loans by size are shown in the following table at December 31:

Size (thousands)	2017
<\$250	20%
\$250-\$500	15
\$500-\$1,000	16
\$1,000-\$5,000	32
\$5,000-\$25,000	15
\$25,000-\$100,000	2
Total	100%

Credit quality at the district's associations remained strong, with loans classified as "acceptable" or "other assets especially mentioned" (special mention) as a percentage of total loans of 98.5, 98.2 and 98.6 percent at December 31, 2017, 2016 and 2015, respectively. Association nonearning assets as a percentage of total loans at December 31, 2017, were 0.9 percent, compared to 1.0 percent and 1.2 percent at December 31, 2015, respectively. The \$25,121 decrease in association nonearning assets from 2016 to 2017 was largely due to a \$20,003 decrease in nonaccrual loans, a \$3,785 decrease in OPO and a \$3,405 decrease in loans past due 90 days or greater and still accruing interest, offset by an \$2,072 increase in accruing formally restructured loans at the district's associations.

From the perspective of the district, which is the bank and its related associations collectively, the loan portfolio consists only of retail loans. The diversity of the commodity types and income sources supporting district loan repayment further mitigates credit risk at the bank.

The following table illustrates the district's loan portfolio by major commodity segments at December 31:

	Percentage of Portfolio						
Commodity Group	<b>2017</b> 2016 2015						
Livestock	33%	33%	33%				
Crops	14	13	13				
Timber	8	8	8				
Cotton	4	4	4				
Dairy	4	3	3				
Poultry	4	4	4				
Rural home	1	1	1				
Other	32	34	34				
Total	<b>100%</b> 100% 100%						

The following table reflects the district's geographic distribution, by major states, at December 31:

	December 31,			
	2017	<b>2017</b> 2016		
Texas	54%	55%	52%	
Mississippi	7	7	7	
Alabama	7	6	7	
Louisiana	4	5	3	
California	2	2	3	
All other states	26	25	28	
Total	100%	100%	100%	

# **High-Risk Assets**

Nonperforming loan volume is composed of nonaccrual loans, accruing restructured loans and loans 90 days or more past due and still accruing interest, and is referred to as impaired loans. High-risk assets consisted of impaired loans and OPO.

The following table discloses the components of the bank's high-risk assets at December 31:

	2017	2016		2015
Nonaccrual loans	\$ 3,393	\$	2,862	\$ 4,672
Accruing formally restructured loans Loans past due 90 days or more	2,607		6,495	16,102
and still accruing interest	-		-	-
Total impaired loans	6,000		9,357	20,774
Other property owned	-		-	438
Total high-risk assets	\$ 6,000	\$	9,357	\$21,212

High-risk assets at December 31, 2017 decreased by \$3,357, or 35.9 percent, from \$9,357, and high-risk assets at December 31, 2016 decreased \$11,855, or 55.9, percent from December 31, 2015. The decrease in accruing formally restructured loans is due to transfers to nonaccrual status. At December 31, 2017, no loans classified as nonaccrual were current as to principal and interest, compared to \$2,862, or 100.0 percent, and \$2,593, or 55.5 percent, that were current as to principal and interest at December 31, 2016 and 2015, respectively.

The increase in nonaccrual loans at December 31, 2017 was primarily attributable to transfers to nonaccrual of \$3.8 million and recoveries of \$1.4 million, offset by repayments of \$4.7 million. The decrease in nonaccrual loans at December 31, 2016, was primarily attributable to repayments of \$3.4 million, offset by recoveries of \$1.6 million.

# Allowance and Reserve for Credit Losses

The allowance for loan losses at December 31, 2017, was \$7,639, compared to \$7,650 at December 31, 2016, and \$5,833 at December 31, 2015. The decrease from 2016 to 2017 is mainly due to a \$14 decrease in general allowance for loan losses due to improvements in credit quality, offset by increases in loan volume. The reserve for credit losses on letters of credit (LOC) and unfunded commitments was \$1,433, \$1,646 and \$1,342 at December 31, 2017, 2016 and 2015, respectively. The allowance and reserve for credit losses in its entirety is related to risks identified in the bank's participation portfolio.

During the second quarter of 2017, the bank downgraded the direct loan to one of our affiliated associations to the special mention credit quality classification. As of December 31, 2017, the direct note totaled \$890,952. The bank's loans to our affiliated associations are collateralized by substantially all of the association assets; the earnings, capital and loan loss reserves of the association provide a buffer against losses in their retail portfolio. While the downgrade reflects control weaknesses at the affiliated association, the bank has not made any provision for loan loss or recorded any allowance for credit loss related to our direct note to that association because of the collateralization of the direct loan and other mitigating factors. The following table provides an analysis of key statistics related to the allowance and reserve for credit losses at December 31:

	2017	2016	2015
Allowance and reserve for			
credit losses as a percentage of:			
Average loans	0.05%	0.05%	0.05%
Loans at year end			
Total loans	0.05	0.05	0.05
Participations	0.14	0.15	0.14
Nonaccrual loans	225.14	267.26	153.57
Total high-risk loans	127.32	81.75	34.54
Net (recoveries) charge-offs to			
average loans	(0.01)	(0.01)	0.01
(Negative provision) provision	. ,	· · · ·	
expense to average loans	(0.01)	0.00	(0.02)
1 5	. ,		· /

The activity in the reserves for credit losses is discussed further in Note 4, "Loans and Reserves for Credit Losses," to the accompanying financial statements.

# Interest Rate Risk Management

Asset/liability management is the bank's process for directing and controlling the composition, level and flow of funds related to the bank's and district's interest-rate-sensitive assets and liabilities. The bank is able to manage the balance sheet composition by using various debt issuance strategies and hedging transactions to match its asset cash flows. Management's objective is to generate adequate and stable net interest income in a changing interest rate environment.

The bank uses a variety of techniques to manage its financial exposure to changes in market interest rates. These include monitoring the difference in the maturities or repricing cycles of interest-rate-sensitive assets and liabilities; simulating changes in net interest income under various interest rate scenarios; and monitoring the change in the market value of interest-rate-sensitive assets and liabilities under various interest rate scenarios.

The interest rate risk inherent in a district association's loan portfolio is substantially mitigated through its funding relationship with the bank. The bank manages district interest rate risk through its direct loan pricing and funding processes. Under the Farm Credit Act of 1971, as amended, a district association is obligated to borrow only from the bank unless the bank approves borrowing from other funding sources. An association's indebtedness to the bank, under a general financing agreement between the bank and the association, represents demand borrowings by the association to fund the majority of its loan advances to association members and is secured by the total assets of the association.

The bank's net interest income is determined by the difference between income earned on loans and investments and the interest expense paid on funding sources, typically Systemwide bonds, medium-term notes and discount notes. The bank's level of net interest income is affected by both changes in market interest rates and timing differences in the maturities or repricing cycles of interest-bearing assets and liabilities. Depending upon the direction and magnitude of changes in market interest rates, the bank's net interest income may be affected either positively or negatively by the mismatch in the maturity or the repricing cycle of interest-ratesensitive assets and liabilities. The bank maintains a loan pricing philosophy that loan rates should be based on competitive market rates of interest. The district associations offer a wide variety of products, including LIBOR- and prime-indexed variable-rate loans and loans with fixed-rate terms ranging from under one year to 30 years. The interest rates on these loans are directly related to the bank's cost to issue debt in the capital markets and a credit spread added for borrower risk. The bank offers an array of loan programs to associations that are designed to meet the needs of the associations' borrowers. These loan programs have varying repayment terms, including fixed and level principal payments, and a choice of payment frequencies, such as monthly, quarterly, semi-annual and annual payments. Additionally, the bank offers a choice of prepayment options to meet customer needs.

FCBT uses complex modeling tools to manage and measure the risk characteristics of its earning assets and liabilities, including gap and simulation analyses. The following interest rate gap analysis sets forth the bank's interest-earning assets and interest-bearing liabilities outstanding as of December 31, 2017, which are expected to mature or reprice in each of the future time periods shown:

	Interest Rate Gap Analysis as of December 31, 2017 Interest-Sensitive Period						
	One Month	More Than One Through	More Than Six Through Twelve	Total Twelve Months	More Than One Year but Less Than	More Than Five Years and Non-Rate-	
	or Less	Six Months	Months	or Less	Five Years	Sensitive	Total
Interest-Earning Assets	<b>A A A A A A A A A A</b>	<b>•</b> • • • • • • • •	<b>•</b> • • • • • • •	A	<b>*</b> • <b>-</b> • • • • • • • • • • • • • • • • • • •	<b>•</b> • • • • • • • <del>-</del>	A 43 005 433
Total loans	\$ 3,126,933	\$ 2,194,410	\$ 1,602,434	\$ 6,923,777	\$ 6,726,973	\$ 3,434,427	\$ 17,085,177
Total investments	2,256,934	551,455	279,434	3,087,823	1,402,123	901,928	5,391,874
Total interest-earning assets	5,383,867	2,745,865	1,881,868	10,011,600	8,129,096	4,336,355	22,477,051
Interest-Bearing Liabilities Total interest-bearing funds Excess of interest-earning assets	4,428,473	3,008,687	1,990,194	9,427,354	9,611,540	1,912,329	20,951,223
over interest-bearing liabilities	-	-	-	-	-	1,525,828	1,525,828
Total interest-bearing liabilities	4,428,473	3,008,687	1,990,194	9,427,354	9,611,540	3,438,157	\$ 22,477,051
Interest rate sensitivity gap	\$ 955,394	\$ (262,822)	\$ (108,326)	\$ 584,246	\$ (1,482,444)	\$ 898,198	
Cumulative interest rate sensitivity gap	\$ 955,394	\$ 692,572	\$ 584,246	\$ 584,246	\$ (898,198)	=	

The amount of assets or liabilities shown in each of the time periods was determined based on the earlier of repricing date, contractual maturity or anticipated loan payments, or projected exercise date on callable debt. To reflect the expected cash flow and repricing characteristics of the bank's balance sheet, an estimate of expected prepayments on loans and mortgage-related investments is used to adjust the maturities of the loans and investments in the earning assets section of the gap analysis. Changes in market interest rates will affect the volume of prepayments on loans. Correspondingly, adjustments have been made to reflect the characteristics of callable debt instruments and the effect derivative financial instruments have on the repricing structure of the bank's balance sheet. The "interest rate sensitivity gap" line reflects the mismatch, or gap, in the maturity or repricing of interest-rate-sensitive assets and liabilities. A gap position can be either positive or negative. A positive gap indicates that a greater volume of assets than liabilities reprices or matures in a given time period, and conversely, a negative gap indicates that a greater volume of liabilities than assets reprices or matures in a given time period. On a 12-month cumulative basis, the bank has a positive gap position, indicating that the bank has an exposure to increasing interest rates. This would occur when interest income on maturing or repricing interest-bearing assets decrease sooner than interest expense on maturing repricing interest-bearing liabilities.

The cumulative gap, which is a static measure, does not take into consideration the changing value of options available to the bank in order to manage this exposure, specifically the ability to exercise or not exercise options on callable debt. These options are considered when projecting the effects of interest rate changes on net interest income and on the market value of equity in the following tables.

Interest rate risk exposure as measured by simulation modeling calculates the bank's expected net interest income and market value of equity based upon projections of interest-rate-sensitive assets, liabilities, derivative financial instruments and interest rate scenarios. The bank monitors its financial exposure to multiple interest rate scenarios. The bank's policy guideline for the maximum negative impact as a result of a 200-basis-point change in interest rates is 16 percent for net interest income and 20 percent for market value of equity. Per FCA regulations, when the current three-month Treasury bill interest rate is less than 4 percent, the minus 200-basis-point scenario should be replaced with a downward shock equal to one-half of the threemonth Treasury bill rate. The bank manages its interest rate risk exposure within these guidelines. As of December 31, 2017, projected annual net interest income would increase by 1.6 percent, if interest rates were to increase by 100 basis points, and would increase by 0.68 percent, if interest rates were to decrease by 69 basis points. Market value of equity is projected to decrease by 7.9 percent as a result of a 100-basis-point increase in interest rates and to increase by 6.3 percent if interest rates were to decline by 69 basis points as of December 31, 2017.

The following tables set forth the bank's projected sensitivity to interest rate movements as prescribed by policy as of December 31, 2017, based on the bank's interest-earning assets and interestbearing liabilities:

	December 31, 2017			
	-69*	+200		
Change in net interest income	0.68%	1.59%	3.07%	
Change in market value of equity	6.33	-7.87	-15.88	

\*When the 3-month Treasury bill is below 4.00%, the shock-down 200 scenario is replaced with a shock-down equal to half of the 3-month Treasury bill.

The bank may use derivative financial instruments to manage its interest rate risk and liquidity position. Fair value and cash flow interest rate swaps for asset/liability management purposes may be used to change the repricing characteristics of liabilities to match the repricing characteristics of the assets they support. The bank does not hold, and is restricted by policy from holding, derivative financial instruments for trading purposes and is not a party to leveraged derivative transactions.

At December 31, 2017, the bank held interest rate caps with a notional amount of \$195,000 and a fair value of \$396, and pay fixed interest rate swap contracts with a notional amount of \$250,000 and a fair value of \$8,288. See Note 15, "Derivative Instruments and Hedging Activity," to the accompanying financial statements for further discussion. Unrealized losses on interest rate caps, the difference between their amortized cost and fair value, are recorded as a reduction of accumulated other comprehensive income. To the extent that its derivatives have a negative fair value, the bank has a payable on the instrument and the counterparty is exposed to the credit risk of the bank. To the extent that its derivatives have a positive fair value, the bank has a receivable on the instrument and is therefore exposed to credit risk from the counterparty. To manage this credit risk, the bank monitors the credit ratings of its counterparties and has bilateral collateral agreements with counterparties. At December 31, 2017, the bank had credit risk exposure to five counterparties on derivative contracts totaling \$8,684.

The bank's activity in derivative financial instruments for 2017 is summarized in the table below:

#### Activity in Derivative Financial Instruments (Notional Amounts)

(in millions)	Fixed /aps	st Rate ips	Тс	otal
Balance at January 1, 2017 Additions Maturities/amortizations	\$ 200 50	\$ 170 75 (50)	\$	370 125 (50)
Balance at December 31, 2017	\$ 250	\$ 195	\$	445

# Liquidity Risk Management

The bank's liquidity risk management practices ensure the district's ability to meet its financial obligations. These obligations include the repayment of Systemwide debt securities as they mature, the ability to fund new and existing loan and other funding commitments, and the ability to fund operations in a cost-effective manner. A primary objective of liquidity risk management is to plan for unanticipated changes in the capital markets.

FCSIC insures the timely payment of principal and interest on Systemwide debt securities. FCSIC maintains the Insurance Fund for this purpose and for certain other purposes. In the event a System bank is unable to timely pay principal or interest on any insured debt obligation for which that bank is primarily liable, FCSIC must expend amounts in the Insurance Fund to the extent available to insure the timely payment of principal and interest on the debt obligation. The provisions of the Farm Credit Act providing for joint and several liability of the System banks on the debt obligation cannot be invoked until the Insurance Fund is exhausted. However, because of other mandatory and discretionary uses of the Insurance Fund, there is no assurance that there will be sufficient funds to pay the principal or interest on the insured debt obligation. The insurance provided through use of the Insurance Fund is not an obligation of and is not a guarantee by the U.S. government.

FCSIC has an agreement with the Federal Financing Bank, a federal instrumentality subject to the supervision and direction of the U.S. Treasury, pursuant to which the Federal Financing Bank would advance funds to FCSIC. Under its existing statutory authority, FCSIC may use these funds to provide assistance to the System banks in demanding market circumstances which threaten the banks' ability to pay maturing debt obligations. The agreement provides for advances of up to \$10.00 billion and terminates on September 30, 2018, unless otherwise renewed. The decision whether to seek funds from the Federal Financing Bank is in the discretion of FCSIC, and each funding obligation of the Federal Financing Bank is subject to various terms and conditions and, as a result, there can be no assurance that funding will be available if needed by the System.

The bank's primary source of liquidity is the ability to issue Systemwide debt securities, which are the general unsecured joint and several obligations of the System banks as discussed below. As a secondary source of liquidity, the bank maintains an investment portfolio composed primarily of high-quality liquid securities. The securities provide a stable source of income for the bank, and their high quality ensures the portfolio can quickly be converted to cash should the need arise.

FCA regulations require each bank to maintain a minimum of 90 days of liquidity coverage on a continuous basis, assuming no access to the capital markets. Liquidity coverage is defined as the number of days that maturing Systemwide debt securities could be funded with cash and eligible liquidity investments maintained by the bank. Regulations on liquidity reserve requirement divided the existing eligible liquidity reserve requirement divided the existing eligible liquidity reserve requirement guaranteed securities of cash and cash-like instruments and must provide 15 days of coverage; Level 2 consists primarily of government guaranteed securities and must provide 30 days of coverage (combined with Level 1); and Level 3 consists primarily of agency guaranteed securities and

must provide a total of 90 days of coverage (combined with Level 1 and Level 2). Additionally, regulations require the bank to maintain a supplemental liquidity reserve above the 90-day minimum to cover cash flow requirements unique to the bank. At December 31, 2017, the bank met all individual level criteria and had a total of 227 days of liquidity coverage, as compared with 199 days at December 31, 2016. The bank's balance in Federal Funds increased by \$224.0 million, or 978.1 percent, from December 31, 2016 to December 31, 2017. The increase in Federal Funds resulted in a lower cash balance with both included in Level 1 liquidity.

# **Funding Sources**

The bank continually raises funds to support its mission to provide credit and related services to the rural and agricultural sectors, repay maturing Systemwide debt securities and meet other obligations. As a government-sponsored enterprise, the bank has had access to the nation's and world's capital markets. This access has provided us with a dependable source of competitively priced debt that is critical to support our mission of providing funding to the rural and agricultural sectors. Moody's Investors Service and Standard & Poor's rate the System's long-term debt as Aaa and AA+, respectively. These rating agencies base their ratings on many quantitative and qualitative factors, including the System's government-sponsored enterprise status. Standard and Poor's rating on long-term debt of AA+ is in concert with its sovereign credit rating on the United States of America at AA+. Material changes to the factors considered could result in a different debt rating. However, as a result of the System's financial performance, credit quality and standing in the capital markets, we anticipate continued access to funding necessary to support System needs. The U.S. government does not guarantee, directly or indirectly, Systemwide debt securities.

The types and characteristics of securities are described in Note 8, "Bonds and Notes," to the accompanying financial statements. As a condition of the bank's participation in the issuance of Systemwide debt securities, the bank is required by regulation to maintain specified eligible assets as collateral in an amount equal to or greater than the total amount of bonds and notes outstanding for which the bank is liable. At December 31, 2017, the bank had excess collateral of \$1.57 billion. Management expects the bank to maintain sufficient collateral to permit its continued participation in Systemwide debt issuances in the foreseeable future.

In September 2008, the bank issued \$50.0 million in subordinated debt in a private placement to one investor. The debt was a 10-year instrument with a coupon rate of 8.406 percent. Prior to the bank's issuance of its Class B noncumulative subordinated perpetual preferred stock (Class B Series 1) in August 2010, the subordinated debt received preferential regulatory capital and collateral treatment, being includible in portions of permanent capital and total surplus and being excludable from total liabilities for purposes of net collateral ratio calculation. Regulatory conditions related to the issuance of the Class B Series 1 preferred stock reduced the benefit of the favorable capital ratio treatment received by subordinated debt, and required that it no longer receive favorable treatment in net collateral calculations. On March 10, 2016, the FCA approved a final rule to modify the regulatory capital requirements for System banks and associations, effective January 1, 2017. The final rule to modify regulatory capital requirements changed the favorable capital treatment of the subordinated debt, and, therefore, qualified as a regulatory event triggering a right or redemption under the terms of the subordinated debt. On March 30, 2016, the bank's board approved a resolution authorizing the redemption of all outstanding debt at par. The redemption occurred on June 6, 2016.

The bank receives ratings from two rating agencies:

- On April 12, 2017, Fitch Ratings affirmed the bank's long-term and short-term issuer default ratings (IDRs) at "AA-" and "F1+," respectively, with a stable outlook. Fitch also affirmed the bank's noncumulative perpetual preferred stock rating at "BBB" and its support floor at "AA-." Fitch affirmed the Farm Credit System's long-term and short-term IDRs at "AAA" and "F1+," respectively, with a stable outlook, and its support floor at "AAA." As a government-sponsored entity, the System benefits from implicit government support. The ratings and rating outlook are directly linked to the U.S. sovereign rating. The affirmation of the System banks' IDRs reflect their prudent, conservative credit culture, their unique funding advantage and their structural second-loss position on the majority of their loan portfolio.
- On September 26, 2017, Moody's Investors Service affirmed the bank's issuer rating at "Aa3" and its noncumulative preferred stock rating at "Baa1 (hyb)," with a stable outlook. The Aa3 issuer rating reflects the bank's "a1" baseline credit assessment (BCA), very high cooperative support from the other Federal Farm Credit banks and moderate support from the U.S. government, which has an "Aaa" stable outlook. The bank's preferred stock rating incorporated the bank's BCA, very high cooperative support from the other Federal Farm Credit banks and notching reflecting the debt's relative positions in the bank's capital structure. The bank's BCA incorporates its solid capital levels, adequate risk-adjusted profitability and liquidity as well as the benefits associated with its lending to related associations and their strong capital levels. The "a1" BCA is one of Moody's highest assessments of any financial institution, both domestically and globally.

The following table provides a summary of the period-end balances of the debt obligations of the bank:

	December 31,				
(dollars in thousands)	2017	2015			
Bonds and term notes outstanding Average effective interest rates Average remaining life (years)	\$ 18,615,696 1.69% 2.9	\$ 16,838,489 1.34% 2.6	\$ 15,769,466 1.26% 2.7		
Subordinated debt outstanding Average effective interest rates Average remaining life (years) Discount notes outstanding	\$ - - - \$ 2,335,527	\$ - - \$ 2,552,173	\$ 49,801 8.41% 2.8 \$ 2,437,259		
Average effective interest rates Average remaining life (days)	1.27% 135	0.63% 157	0.30% 110		

The following table provides a summary of the average balances of the debt obligations of the bank:

	For the years ended December 31,				
-	<b>2017</b> 2016 2015				
Average interest-bearing liabilities outstanding Average interest rates on interest-bearing liabilities	\$ 20,146,249	\$ 19,024,161	\$ 17,075,695		
	1.47%	1.27%	1.15%		

#### Investments

As permitted under FCA regulations, a bank is authorized to hold eligible investments for the purposes of maintaining a diverse source of liquidity, profitably managing short-term surplus funds and managing interest rate risk. The bank is authorized to hold an amount not to exceed 35.0 percent of loans outstanding. The bank's holdings are within this limit as of December 31, 2017.

FCA regulations also define eligible investments by specifying credit rating criteria, final maturity limit and percentage of investment portfolio limit for each investment type. Generally, the bank's investments must be highly rated by at least one Nationally Recognized Statistical Rating Organization, such as Moody's Investors Service, Standard & Poor's or Fitch Ratings. If an investment no longer meets eligibility criteria, the investment becomes ineligible.

At December 31, 2017, the bank had no investments which were ineligible for liquidity purposes as a result of credit downgrading.

At December 31, 2017 and December 31, 2016, the bank held no securities that were designated as other-than-temporarily impaired investments (OTTI) and the bank recognized no credit losses related to OTTI securities.

The bank's investments are all considered available for sale, and include a liquidity portfolio and a portfolio of other investments. The liquidity portfolio had a fair value of \$5.10 billion at December 31, 2017, and consisted primarily of federal agency-guaranteed collateralized mortgage-backed securities (MBS), corporate debt, agency-guaranteed debt, U.S. Treasury securities and asset-backed securities (ABS). The majority of the liquidity portfolio's MBS includes Government National Mortgage Association (GNMA), Federal National Mortgage Association (FNMA) and Federal Home Loan Mortgage Corporation (FHLMC) securities.

The bank's liquidity investment portfolio consisted of the following at December 31:

	2017				2016			
	Α	Amortized Fair		Amortized	Fair			
		Cost	ost Value		Cost	Value		
Agency-guaranteed								
debt	\$	198,246	\$	195,248	\$ 225,457	\$ 222,374		
Corporate debt		252,482		252,609	202,365	202,403		
Federal agency								
collateralized								
mortgage-backed								
securities:								
GNMA		2,012,484		1,984,662	1,697,627	1,682,999		
FNMA and FHLMC		2,395,248		2,372,053	2,308,775	2,290,579		
U.S. Treasury securities		249,860		249,207	249,502	249,006		
Asset-backed securities		47,914		47,889	130,703	130,679		
Total liquidity investments	\$	\$ 5,156,234 \$ 5,101,668		\$ 4,814,429	\$ 4,778,040			

The bank's other investments consisted of Federal Agricultural Mortgage Corporation (Farmer Mac) guaranteed agricultural mortgage-backed securities (AMBS), purchased from three district associations as part of the bank's Capitalized Participation Pool (CPP) program. The AMBS are not included in the bank's liquidity portfolio. The Farmer Mac securities are backed by loans originated by the associations and previously held by the associations under the Farmer Mac long-term standby commitments to purchase agreements. As a part of the CPP program, any positive impact to the net income of the bank can be returned as patronage to the association if declared by the bank's board of directors. The declared patronage approximates the net earnings of the respective pool.

Farmer Mac is a government-sponsored enterprise and is examined and regulated by FCA. It provides secondary market arrangements for agricultural and rural home mortgage loans that meet certain underwriting standards. Farmer Mac is authorized to provide loan guarantees or be a direct pooler of agricultural mortgage loans. Farmer Mac is owned by both System and non-System investors and its board of directors has both System and non-System representation. Farmer Mac is not liable for any debt or obligation of any System institution and no System institution other than Farmer Mac is liable for any debt or obligation of Farmer Mac.

The bank's other investment portfolio consisted of Farmer Mac AMBS securities at December 31:

	201	17	2016		
	Amortized	Fair	Amortized	Fair Value	
	Cost	Value	Cost		
Agricultural mortgage- backed securities	\$ 45,564	\$ 43,317	\$ 55,475	\$ 53,335	

The bank's available-for-sale investments are reflected at fair value.

# Capital Adequacy

Total shareholders' equity at December 31, 2017, was \$1,667,884, compared to \$1,662,252 and \$1,553,578 at December 31, 2016 and 2015, respectively. The total shareholders' equity increase of \$45,632 during 2017 was due primarily to net income of \$195,986 and a \$17,201 net issuance of capital stock offset by an increase of \$19,323 in accumulated other comprehensive loss, \$97,982 in patronage declared, \$50,520 in dividends paid on preferred stock. The bank declared patronage of \$97,982 included \$58,335 in direct loan patronage, \$31,424 in patronage on certain participations, \$6,113 in patronage based on the associations' and OFIs' stock investment in the bank and Capitalized Participation Pool (CPP) patronage of \$2,110. The bank's goal is to provide direct loan patronage at a level that would result in a cost of funds to district associations equal to the bank's marginal cost of funds, which was achieved for the year ended 2017.

Preferred stock totaled \$600,000 at December 31, 2017, 2016 and 2015. Class B noncumulative subordinated perpetual preferred stock included \$300,000 of Class B-1, issued in 2010, and \$300,000 of Class B-2, issued in July 2013. Dividends on the Class B-1 preferred stock, if declared by the board of directors at its sole discretion, are noncumulative and are payable semi-annually in arrears on the fifteenth day of June and December in each year, commencing December 15, 2010, at an annual fixed rate of 10 percent of par value of \$1,000 per share. Dividends on the Class B-2 preferred stock, if declared by the board of directors at its sole discretion, are noncumulative and are payable quarterly in arrears on the fifteenth day of March, June, September and December in each year, commencing September 15, 2013, at an annual fixed rate of 6.75 percent of par value of \$100 per share, up to, but excluding September 15, 2023, from and after which date will be paid at an annual rate of the 3-Month USD LIBOR plus 4.01 percent. The Class B preferred stock ranks senior to all of our outstanding common stock. "Dividend/patronage stopper" clauses in the preferred stock offerings require the payment or declaration of current period dividends on the preferred stock issuances before any other patronage can be declared, and were required before payment of the December 31, 2017, bank investment and direct note patronage to associations and OFIs could be made.

During the third quarter of 2017, the association Class A Common Stockholders approved an amendment to the bank's capitalization bylaws. The amended bylaws became effective September 15, 2017, resulting in updates to certain sections of the bylaws to conform to the FCA's updated capital adequacy regulations. The amendments did not result in significant changes to the regulatory capital requirements of the bank as of December 31, 2017.

Accumulated other comprehensive loss (AOCL) increased \$19,323, or 59.3 percent, to a \$51,902 loss at December 31, 2017, from a \$32,579 loss at December 31, 2016, due to an increase of \$18,284 in unrealized net losses on the bank's investments, a \$1,344 decrease related to retirement benefits, offset by an increase of \$305 in unrealized gains on the bank's cash flow hedges. The increase in unrealized net losses on investments was primarily attributable to the effects of market interest rate changes on the bank's fixed-rate investments. The \$305 increase of unrealized gain on cash flow hedges is the result of changes in the valuation of interest rate swaps the bank held during 2017. The \$1,344 decrease on retirement benefits was primarily due to an actuarial loss on postretirement benefit plans. The actuarial loss included the effects of a decrease in the discount rate used to determine the present value of our future benefit obligations.

Capital adequacy is evaluated using various ratios for which the FCA has established regulatory minimums. Effective January 1, 2017, the new regulatory capital ratios were implemented by the bank. Regulatory ratios remained well above regulatory minimums, including the conservation and leverage buffers at December 31, 2017. The following table reflects the bank's capital ratios at December 31:

Description

						Regulatory
		2017	2016	2	015	Minimum
Permanent capital ratio	-	16.60%	17.40%	n 17	.74%	7.00%
Common equity tier 1 ra	atio	10.52	n/a		n/a	7.00
Tier 1 capital ratio		16.59	n/a		n/a	8.50
Total capital ratio		16.68	n/a		n/a	10.50
Tier 1 leverage ratio		7.33	n/a		n/a	5.00
UREE leverage ratio		3.08	n/a		n/a	1.50
						Regulatory
	2016	2015	2014	2013	2012	Minimum
Total surplus ratio	14.98%	15.48%	18.33%	17.29%	15.92%	7.00%
Core surplus ratio	9.97	9.88	15.86	10.12	9.92	3.50
Net collateral ratio*	107.35	107.70	108.00	108.67	107.94	103.00

\*The bank's minimum net collateral ratio for regulatory purposes while any subordinated debt was outstanding was 104.00. The bank redeemed all of its outstanding subordinated debt in June 2016. The debt was issued in September 2008.

## **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. The board of directors is required, by regulation, to adopt an internal control policy that provides adequate direction to the institution in establishing effective control over and accountability for operations, programs and resources. The policy 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 its 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 general, we address operational risk through the organization's internal governance structure. Exposure to operational risk is typically identified with the assistance of senior management, and internal audit plans are risk-based and are re-evaluated on an annual basis, or more frequently, if necessary. The board of directors is responsible for defining the role of the audit committee in providing oversight and review of the institution's internal controls.

# Reputational Risk Management

Reputational risk is defined as the negative impact resulting from events, real or perceived, that shape the image of the bank, the System or any of its entities. The bank and its affiliated associations could be harmed if its reputation were impacted by negative publicity about the System as a whole, an individual System entity or the agriculture industry in general.

Reputational risk is the direct responsibility of each System entity. For reputational issues that have broader consequences for the System as a whole, System governance will communicate guidance to the System supporting those business practices that are consistent with our mission.

## Political Risk Management

We, as part of the System, are an instrumentality of the federal government and are intended to further governmental policy concerning the extension of credit to or for the benefit of agricultural and rural America. The System and its borrowers may be significantly affected by federal legislation that affects the System directly, such as changes to the Farm Credit Act, or indirectly, such as agricultural appropriations bills. Political risk to the System is the risk of loss of support for the System or agriculture by the U.S. government.

We manage political risk by actively supporting The Farm Credit Council (Council), which is a full-service, federal trade association representing the System before Congress, the executive branch and others. The 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, we take an active role in representing the individual interests of System institutions and their borrowers before Congress. In addition to the Council, each district has its own council, which is a member of the Council. The district councils represent the interests of their members on a local and state level, as well as on a federal level.

# **Recent Accounting Pronouncements**

In August 2017, the Financial Accounting Standards Board (FASB) issued guidance entitled "Targeted Improvements to Accounting for Hedging Activities." The guidance better aligns an entity's risk management activities and financial reporting for hedging relationships through changes to both the designation and measurement guidance for qualifying hedging relationships and the presentation of hedge results. The amendments in this guidance require an entity to present the earnings effect of the hedging instrument in the same income statement line item in which the earnings effect of the hedged item is reported. This guidance also addresses the timing of effectiveness testing, qualitative and quantitative effectiveness testing, and components that can be excluded from effectiveness testing. This guidance becomes effective for interim and annual periods beginning after December 15, 2018. The bank is evaluating the impact of adoption on the bank's financial condition and its results of operations.

In March 2017, the FASB issued guidance entitled "Improving the Presentation of Net Periodic Pension Cost and Net Periodic

Postretirement Cost." The guidance requires that an employer report the service cost component in the same line item or items as other compensation costs arising from services rendered by the pertinent employees during the period. Other components are required to be presented in the income statement separately from the service cost component and outside a subtotal of income from operations, if one is presented. This guidance becomes effective for interim and annual periods beginning after December 15, 2017. The adoption of this guidance will not impact the bank's financial condition but will change the classification of certain items in the results of operations.

In August 2016, the FASB issued guidance entitled "Classification of Certain Cash Receipts and Cash Payments." The guidance addresses specific cash flow issues with the objective of reducing the diversity in the classification of these cash flows. Included in the cash flow issues are debt repayment or debt extinguishment costs and settlement of zero-coupon debt instruments or other debt instruments with coupon interest rates that are insignificant in relation to the effective interest rate of the borrowing. This guidance becomes effective for interim and annual periods beginning after December 15, 2017. The adoption of this guidance is not expected to impact the bank's financial condition or its results of operations but could change the classification of certain items in the statement of cash flows.

In June 2016, the FASB issued guidance entitled "Measurement of Credit Losses on Financial Instruments." The guidance replaces the current incurred loss impairment methodology with a methodology that reflects expected credit losses and requires consideration of a broader range of reasonable and supportable information to inform credit loss estimates. Credit losses relating to available-for-sale securities would also be recorded through an allowance for credit losses. For public business entities that are not U.S. Securities and Exchange Commission filers, this guidance becomes effective for interim and annual periods beginning after December 15, 2020, with early application permitted. The bank is evaluating the impact of adoption on its financial condition and results of operations.

In February 2016, the FASB issued guidance entitled "Leases." The guidance requires the recognition by lessees of lease assets and lease liabilities on the balance sheet for the rights and obligations created by those leases. Leases with lease terms of more than 12 months are impacted by this guidance. This guidance becomes effective for interim and annual periods beginning after December 15, 2018, with early application permitted. The bank is evaluating the impact of adoption on its financial condition and results of operations.

In January 2016, the FASB issued guidance entitled "Recognition and Measurement of Financial Assets and Liabilities." The guidance affects, among other things, the presentation and disclosure requirements for financial instruments. For public entities, the guidance eliminates the requirement to disclose the methods and significant assumptions used to estimate the fair value of financial instruments carried at amortized cost. This guidance becomes effective for interim and annual periods beginning after December 15, 2017. The adoption of this guidance will not impact the bank's financial condition or its results of operations.

In May 2014, the FASB issued guidance entitled, "Revenue from Contracts with Customers." The guidance governs revenue recognition from contracts with customers and requires an entity to recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. Financial instruments and other contractual rights within the scope of other guidance issued by the FASB are excluded from the scope of this new revenue recognition guidance. In this regard, a majority of our contracts would be excluded from the scope of this new guidance. In August 2015, the FASB issued an update that deferred this guidance by one year, which results in the new revenue standard becoming effective for interim and annual reporting periods beginning after December 15, 2017. The bank has determined that the effect of adoption is not material to its financial condition or results of operations and will not change its current recognition practices.

## **Regulatory Matters**

At December 31, 2017, there were no district associations under written agreements with the Farm Credit Administration.

On July 28, 2016, the Farm Credit Administration published a final regulation to modify the regulatory capital requirements for System banks and associations. The stated objectives of the rule were as follows:

- To modernize capital requirements while ensuring that the institutions continue to hold sufficient regulatory capital to fulfill their mission as a government-sponsored enterprise,
- To 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, but also to ensure that the rules recognize the cooperative structure and the organization of the System,
- To make System regulatory capital requirements more transparent, and
- To meet the requirements of section 939A of the Dodd-Frank Act.

The final rule replaced existing core surplus and total surplus requirements with common equity tier 1, tier 1 and total capital risk-based capital ratio requirements. The final rule also replaced the existing net collateral ratio with a tier 1 leverage ratio and is applicable to all banks and associations. The permanent capital ratio will continue to remain in effect with the final rule.

The new capital requirements became effective January 1, 2017, with a three-year phase-in of the capital conservation buffer applied to the risk-adjusted capital ratios. The bank is in compliance with the required minimum capital standards and met the conservation buffers as of December 31, 2017.

On June 12, 2014, the Farm Credit Administration (FCA) approved a proposed rule to revise the requirements governing the eligibility of investments for System banks and associations. The stated objectives of the proposed rule are as follows:

- To strengthen the safety and soundness of System banks and associations,
- To ensure that System banks hold sufficient liquidity to continue operations and pay maturing obligations in the event of market disruption,
- To enhance the ability of the System banks to supply credit to agricultural and aquatic producers,
- To comply with the requirements of section 939A of the Dodd-Frank Act,
- To modernize the investment eligibility criteria for System banks, and
- To revise the investment regulation for System associations to improve their investment management practices so they are more resilient to risk.

The public comment period ended on October 23, 2014. FCA anticipates releasing a final rule in the first quarter of 2018.

#### Other

New U.S. tax laws resulting from legislation commonly known as the Tax Cuts and Jobs Acts of 2017 (TCJA) were enacted in late 2017. Among other things, the TCJA changed the federal corporate tax rate from 35 percent to 21 percent. The bank is exempt from federal and certain other income taxes as provided by the Farm Credit Act. Thus, the new laws had no impact on the bank's financial results.

While the full impact of the TCJA is difficult to predict and may not be fully known for several years, changes that could affect the bank's business and customers include, but are not limited to, modifications to deductions surrounding interest expense and equipment purchases, tax incentives related to renewable energy initiatives, deductions impacting agricultural producers who sell their products to cooperatives and the overall changes in the competitive environment impacting financial institutions.



The financial statements of the Farm Credit Bank of Texas (bank) are prepared by management, which is responsible for their integrity and objectivity, including amounts that must necessarily be based on judgments and estimates. The financial statements have been prepared in conformity with generally accepted accounting principles appropriate in the circumstances, except as noted. Other financial information included in this annual report is consistent with that in the financial statements.

To meet its responsibility for reliable financial information, management depends on the bank's accounting and internal control systems, which have been designed to provide reasonable, but not absolute, assurance that assets are safeguarded and transactions are properly authorized and recorded. The systems have been designed to recognize that the cost of controls must be related to the benefits derived. To monitor compliance, the internal audit staff of the Farm Credit Bank of Texas audits the accounting records, reviews accounting systems and internal controls, and recommends improvements as appropriate. The financial statements are audited by PricewaterhouseCoopers LLP (PwC), independent auditors. In addition, our independent auditors have audited our internal accounting the nature, extent and timing of the audit tests applied in the examination of the financial statements. In addition, the bank is examined by the Farm Credit Administration.

In the opinion of management, the financial statements are true and correct and fairly state the financial position of the Farm Credit Bank of Texas at December 31, 2017, 2016 and 2015. The independent auditors have direct access to the audit committee, which is composed solely of directors who are not officers or employees of the bank.

The undersigned certify that we have reviewed the December 31, 2017, annual report of the Farm Credit Bank of Texas, that the report has been prepared in accordance with all applicable statutory or regulatory requirements, and that the information included herein is true, accurate and complete to the best of our knowledge and belief.

James F. Dodson Chairman of the Board

Larry R. Doyle Chief Executive Officer

Amie Pala Chief Financial Officer

March 1, 2018


The audit committee (committee) is composed of the entire board of directors of the Farm Credit Bank of Texas (bank). The committee oversees the bank's system of internal controls and the adequacy of management's action with respect to recommendations arising from those internal control activities. The committee's approved responsibilities are described more fully in the Audit Committee Charter, which is available on request or on the bank's website at *www.farmcreditbank.com*. In 2017, 13 committee meetings were held, with some of these meetings including executive sessions between the committee and Pricewaterhouse-Coopers LLP (PwC) and the bank's internal auditor. The committee approved the appointment of PwC as independent auditors for 2017.

Management is responsible for the bank's internal controls and for the preparation of the financial statements in accordance with accounting principles generally accepted in the United States of America. PwC is responsible for performing an independent audit of the bank's financial statements in accordance with auditing standards generally accepted in the United States of America in addition to the bank's internal control over financial reporting and to issue a report thereon. The committee's responsibilities include monitoring and overseeing these processes.

In this context, the committee reviewed and discussed the bank's audited financial statements for the year ended December 31, 2017, with management and PwC. The committee also reviewed with PwC the matters required to be discussed by Auditing Standard Section 380 (Communication with Audit Committees).

PwC has provided to the committee the written communications regarding their independence. The committee discussed with appropriate representatives of PwC the firm's independence from the bank. The committee also approved the non-audit services provided by PwC and concluded that these services were not incompatible with maintaining the auditor's independence. Furthermore, throughout 2017 the committee has discussed with management and PwC such other matters and received such assurances from them as the committee deemed appropriate. Both PwC and the bank's internal auditor directly provided reports on significant matters to the committee.

Brad C. Bean, Chairman M. Philip Guthrie, Vice Chairman Ralph W. Cortese James F. Dodson Linda C. Floerke Elizabeth G. Flores Lester Little

Audit Committee Members

March 1, 2018



The Farm Credit Bank of Texas' (bank's) principal executive and principal financial officer are responsible for establishing and maintaining adequate internal control over financial reporting for the bank's financial statements. For purposes of this report, "internal control over financial reporting" is defined as a process designed by, or under the supervision of, the bank's principal executive and principal financial officer, or persons performing similar functions, and effected by the bank's board of directors, management and other personnel, 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 in the United States of America (GAAP). Internal control over financial reporting include those policies and procedures that: (1) pertain to the maintenance of records that in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the bank; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial information in accordance with 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, 2017. In making the assessment, management used the updated "Internal Control – Integrated Framework" promulgated by the Committee of Sponsoring Organizations of the Treadway Commission on May 14, 2013, commonly referred to as the "COSO 2013 Framework."

Based on the assessment performed, the bank concluded that as of December 31, 2017, the internal control over financial reporting was effective based upon the COSO criteria. Additionally, based on this assessment, the bank determined that there were no material weak-nesses in the internal control over financial reporting as of December 31, 2017.

The effectiveness of the bank's internal control over financial reporting as of December 31, 2017, has been audited by PricewaterhouseCoopers LLP, an 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, 2017.



# Evaluation of Disclosure Controls and Procedures

As of December 31, 2017, management of the Farm Credit Bank of Texas (bank) carried out an evaluation with the participation of the bank's management, including the chief executive officer (CEO) and chief financial officer (CFO), of the effectiveness of the design and operation of the their respective disclosure controls and procedures <sup>(1)</sup> with respect to this annual information statement. This evaluation is based on testing of the design and effectiveness of key internal controls, certifications and other information furnished by the principal executive officer and principal financial officer of the bank, as well as incremental procedures performed by the bank. Based upon and as of the date of the bank's evaluation, the CEO and the CFO concluded that the disclosure controls and procedures are effective in alerting them on a timely basis of any material information relating to the bank that is required to be disclosed by the bank in the annual and quarterly information statements it files or submits to the Farm Credit Administration. There have been no significant changes in the bank's internal control over financial reporting<sup>(2)</sup> that occurred during the quarter ended December 31, 2017 that have materially affected, or are reasonably likely to materially affect, the bank's internal control over financial reporting.

<sup>&</sup>lt;sup>(1)</sup> For purposes of this discussion, "disclosure controls and procedures" are defined as controls and procedures of the bank that are designed to ensure that the financial information required to be disclosed by the bank in this annual information statement is recorded, processed, summarized and reported within the time periods specified under the rules and regulations of the Farm Credit Administration.

<sup>&</sup>lt;sup>(2)</sup> For purposes of this discussion, "internal control over financial reporting" is defined as a process designed by, or under the supervision of, the bank's principal executive officers and principal financial officers, or persons performing similar functions, and effected by the bank's boards of directors, managements and other personnel, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of the bank's combined financial statements for external purposes in accordance with generally accepted accounting principles and includes those policies and procedures that: (1) pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the bank; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of the bank's combined financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the bank are being made only in accordance with authorizations of unauthorized acquisition, use or disposition of the bank's assets that could have a material effect on the bank's financial statements.

# Certification

I, Larry R. Doyle, certify that:

- 1. I have reviewed the 2017 Annual Report of the Farm Credit Bank of Texas (bank).
- 2. Based on my knowledge, this annual information statement does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this annual information statement.
- 3. Based on my knowledge, the financial statements and other financial information included in this annual information statement, fairly present in all material respects the financial condition, results of operations and cash flows of the bank as of, and for, the periods presented in this annual information statement.
- 4. The bank's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures<sup>1</sup> and internal control over financial reporting<sup>2</sup> for the bank and have:
  - (a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the bank, including its combined entities, is made known to us by others within those entities, particularly during the period in which this annual information statement is being prepared;
  - (b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) evaluated the effectiveness of the bank's disclosure controls and procedures and presented in this annual information statement our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this annual information statement based on such evaluation; and
  - (d) disclosed in this annual information statement any change in the bank's internal control over financial reporting that occurred during the bank's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the bank's internal control over financial reporting.
- 5. The bank's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the bank's auditors and the bank's audit committee:
  - (a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the bank's ability to record, process, summarize and report financial information; and
  - (b) any fraud, whether or not material, that involves management or other employees who have a significant role in the bank's internal control over financial reporting.

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Larry R. Doyle Chief Executive Officer

March 1, 2018

(1) see footnote 1 on evaluation of disclosure controls and procedures report

(2) see footnote 2 on evaluation of disclosure controls and procedures report

# Certification

I, Amie Pala, certify that:

- 1. I have reviewed the 2017 Annual Report of the Farm Credit Bank of Texas (bank).
- 2. Based on my knowledge, this annual information statement does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this annual information statement.
- 3. Based on my knowledge, the financial statements and other financial information included in this annual information statement, fairly present in all material respects the financial condition, results of operations and cash flows of the bank as of, and for, the periods presented in this annual information statement.
- 4. The bank's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures<sup>1</sup> and internal control over financial reporting<sup>2</sup> for the bank and have:
  - (e) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the bank, including its combined entities, is made known to us by others within those entities, particularly during the period in which this annual information statement is being prepared;
  - (f) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (g) evaluated the effectiveness of the bank's disclosure controls and procedures and presented in this annual information statement our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this annual information statement based on such evaluation; and
  - (h) disclosed in this annual information statement any change in the bank's internal control over financial reporting that occurred during the bank's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the bank's internal control over financial reporting.
- 5. The bank's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the bank's auditors and the bank's audit committee:
  - (c) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the bank's ability to record, process, summarize and report financial information; and
  - (d) any fraud, whether or not material, that involves management or other employees who have a significant role in the bank's internal control over financial reporting.

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Amie Pala Chief Financial Officer

March 1, 2018

<sup>(1)</sup> see footnote 1 on evaluation of disclosure controls and procedures report

(2) see footnote 2 on evaluation of disclosure controls and procedures report



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

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

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

We have audited the accompanying balance sheets of Farm Credit Bank of Texas as of December 31, 2017, 2016, and 2015, and the related statements of comprehensive income, of changes in shareholders' equity and of cash flows, for each of the three years in the period ended December 31, 2017, 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, 2017, 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, 2017, 2016, and 2015, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017 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, 2017, 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

*PricewaterhouseCoopers LLP, 300 West 6th Street, Suite 1800, Austin, Texas 78701 T: (512) 477-1300, F: (512) 477-8681, www.pwc.com/us*  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.

Pricewaterhouse Coopers ILP

March 1, 2018

We have served as the Company's auditor since 2002.

# **Balance Sheets**

# Farm Credit Bank of Texas

		December 31,	
(dollars in thousands)	2017	2016	2015
Assets			
Cash	\$ 56,183	\$ 195,479	\$ 545,09
Federal funds sold and overnight investments	246,888	22,901	22,41
Investment securities	5,144,985	4,831,375	4,445,10
Loans (includes \$9,908, \$16,311 and \$27,506 at fair			
value held under fair value option)	17,085,177	15,909,403	14,771,00
Less allowance for loan losses	7,639	7,650	5,83
Net loans	17,077,538	15,901,753	14,765,17
Accrued interest receivable	58,330	50,191	47,81
Other property owned	-	-	43
Premises and equipment, net	49,405	37,999	27,83
Other assets	203,276	182,700	135,70
Total assets	\$ 22,836,605	\$ 21,222,398	\$ 19,989,57
Liabilities and Shareholders' Equity			
Liabilities			
Bonds and notes, net	\$ 20,951,223	\$ 19,390,662	\$ 18,206,72
Subordinated debt, net	-	-	49,80
Accrued interest payable	63,809	50,255	44,76
Reserve for credit losses	1,433	1,646	1,34
Preferred stock dividends payable	20,063	20,063	20,06
Patronage payable	31,418	29,398	22,41
Other liabilities	100,775	108,122	90,88
Total liabilities	21,168,721	19,600,146	18,435,99
Commitments and contingencies (Note 12)			
Shareholders' Equity			
Preferred stock	600,000	600,000	600,00
Capital stock	301,239	284,038	255,82
Allocated retained earnings	39,144	33,171	27,20
Unallocated retained earnings	779,403	737,622	697,88
Accumulated other comprehensive loss	(51,902)	(32,579)	(27,33
Total shareholders' equity	1,667,884	1,622,252	1,553,57
Total liabilities and shareholders' equity	\$ 22,836,605	\$ 21,222,398	\$ 19,989,57

# Statements of Comprehensive Income

Farm Credit Bank of Texas

		Year Ended	December 31,		
(dollars in thousands)	 2017	:	2016	1	2015
Interest Income					
Loans	\$ 462,765	\$	411,159	\$	367,797
Investment securities	84,755		69,353		60,563
Total interest income	 547,520		480,512		428,360
Interest Expense					
Bonds, notes and subordinated debt	 296,199		242,191		195,892
Net Interest Income	251,321		238,321		232,468
(Negative provision) provision for credit losses	(1,673)		563		(2,506)
Net interest income after (negative provision)	 . ,				, ,
provision for credit losses	 252,994		237,758		234,974
Noninterest Income					
Patronage income	26,414		27,504		21,452
Fees for services to associations	3,889		4,355		4,150
Fees for loan-related services	10,944		13,834		13,514
Loss on loans held under fair value option	(300)		(418)		(838)
Other income, net	4,257		5,144		2,360
Total noninterest income	 45,204		50,419		40,638
Noninterest Expenses					
Salaries and employee benefits	39,713		37,430		35,907
Occupancy and equipment	17,470		16,489		14,817
FCSIC premiums	11,724		12,671		9,004
Loss (gain) on other property owned	-		439		(3,090)
Other operating expenses	33,305		28,742		26,735
Total noninterest expenses	 102,212		95,771		83,373
Net Income	\$ 195,986	\$	192,406	\$	192,239
Other comprehensive loss					
Change in postretirement benefit plans	(1,344)		(323)		879
Change in unrealized loss on investments	(18,284)		(13,253)		(9,176)
Change in cash flow derivative instruments	305		8,328		788
Total other comprehensive loss	 (19,323)		(5,248)		(7,509)
Comprehensive Income	\$ 176,663	\$	187,158	\$	184,730

# Statements of Changes In Shareholders' Equity

Farm Credit Bank of Texas

(de lleve in the open de )	 referred		Capital		Retained Earnings				cumulated Other prehensive	Total Shareholders'
(dollars in thousands) Balance at December 31, 2014	\$		AI \$	located 22,508	00 \$	allocated 643.067	\$	Loss (19,822)	Equity	
Net income	 000,000	φ	233,468	ф	22,300	φ	192,239	φ	(19,022)	\$ 1,479,221
Other comprehensive loss	-		-		-		192,239		(7,509)	192,239
Capital stock and allocated retained earnings issued			23,742		_		_		(1,000)	(7,509) 23,742
Capital stock and allocated retained earnings issued	_		(1,387)		_		-		_	(1,387)
Preferred stock dividends			(1,507)				(50,250)		_	· · ·
Patronage distributions	-		-		_		(00,200)		-	(50,250)
Cash	_		_		_		(82,478)		_	(82,478)
Shareholders' equity	_		_		4.695		(4,695)		-	(02,470)
Balance at December 31, 2015	600,000		255,823		27,203		697,883		(27,331)	1,553,578
Net income	 -		-		-		192,406		-	192,406
Other comprehensive loss	-		-		-		-		(5,248)	(5,248)
Capital stock and allocated retained earnings issued	-		29,218		-		-		-	29,218
Capital stock and allocated retained earnings retired	-		(1,003)		-		-		-	(1,003)
Preferred stock dividends	-		-		-		(50,250)		-	(50,250)
Patronage distributions										( , , ,
Cash	-		-		-		(96,449)		-	(96,449)
Shareholders' equity	-		-		5,968		(5,968)		-	-
Balance at December 31, 2016	 600,000		284,038		33,171		737,622		(32,579)	1,622,252
Net income	 -		-		-		195,986		-	195,986
Other comprehensive loss	-		-		-		-		(19,323)	(19,323)
Capital stock and allocated retained earnings issued	-		18,312		-		-		-	18,312
Capital stock and allocated retained earnings retired	-		(1,111)		-		-		-	(1,111)
Preferred stock dividends	-		-		-		(50,250)		-	(50,250)
Patronage distributions										. ,
Cash	-		-		-		(97,982)		-	(97,982)
Shareholders' equity	 -		-		5,973		(5,973)		-	-
Balance at December 31, 2017	\$ 600,000	\$	301,239	\$	39,144	\$	779,403	\$	(51,902)	\$ 1,667,884

# Statements of Cash Flows

Farm Credit Bank of Texas

		Year F	Ended December 31,		
(dollars in thousands)	2017	Tour	2016		2015
Cash Flows From Operating Activities	<b>A A A A A A A A A A</b>		100,400	•	100.000
Net income	\$ 195,986	<b>i</b> \$	192,406	\$	192,239
Reconciliation of net income to net cash provided by operating activities	(1.670)		500		(0 500)
(Negative provision) provision for credit losses	(1,673)	)	563		(2,506)
Loss (gain) on sales of other property owned Depreciation and amortization on premises and equipment	6,930	-	439 6,048		(3,090) 5,621
Amortization of net premium on loans	2,514		4,681		11,504
Amortization and accretion on debt instruments	27,916		27,153		11,857
Accretion of net premium on investments	5,518		3,711		1,058
Decrease in fair value of loans held under fair value option	300		418		838
Decrease in fair value of loans held for sale			-		77
Gain on sale of loans	(3,575	)	(4,867)		-
Allocated equity patronage from System bank	(14,583)		(13,847)		(13,498)
(Gain) loss on other earning assets	(305		240		
(Gain) loss on sales of premises and equipment	(60		(4)		3,124
Increase in accrued interest receivable	(8,139)		(2,375)		(3,387)
(Increase) decrease in other assets, net	(279)		(26,614)		551
Increase in accrued interest payable	13,555		5,489		6,644
(Decrease) increase in other liabilities, net	(1,027)	)	27,789		4,644
Net cash provided by operating activities	223,078	}	221,230		215,676
Ocah Flaure Franching Activities					
Cash Flows From Investing Activities Net increase in federal funds sold	(223,988)	<b>`</b>	(488)		(327)
Investment securities	(223,900)	,	(400)		(327)
Purchases	(1,498,827)	<b>`</b>	(1,565,888)		(1,412,538)
Proceeds from maturities, calls and prepayments	1,161,416		1.162.654		1,043,591
Increase in loans, net	(1,209,906)		(1,306,619)		(1,686,087)
Proceeds from sale of loans	28,657		163,839		200,000
Proceeds from sale of other property owned	20,007	_	100,000		12,962
Proceeds from sale of premises and equipment	126	;	14		59
Expenditures for premises and equipment	(18,402)		(16,222)		(10,320)
Investment in other earning assets	(4,710		(3,239)		(3,459)
Net cash used in investing activities	(1,765,634		(1,565,949)		(1,856,119)
Cash Flows From Financing Activities			(		(.,,
Bonds and notes issued	11,863,920	)	19,670,304		15,030,200
Bonds and notes retired	(10,331,274)	)	(18,513,323)		(13,165,277)
Redemption of subordinate debt		-	(50,000)		-
Repayments on capital lease obligation	(374)		(374)		(94)
Capital stock issued	18,312		29,218		23,742
Capital stock retired and allocated retained earnings distributed	(1,111)		(1,003)		(1,387)
Cash dividends on preferred stock	(50,250)		(50,250)		(50,250)
Cash patronage distributions paid	(95,963)		(89,464)		(79,762)
Net cash provided by financing activities	1,403,260		995,108		1,757,172
Net (decrease) increase in cash	(139,296)		(349,611)		116,729
Cash at beginning of year	195,479		545,090	<b>^</b>	428,361
Cash at End of Year	\$ 56,183	\$	195,479	\$	545,090
Supplemental Schedule of Noncash Investing and Financing Activities					
Net decrease in unrealized gains on investment securities	\$ (18,284)	) \$	(13,253)	\$	(9,176)
Preferred stock dividends payable	20,063		20,063	Ŧ	20,063
Patronage distributions cash payable	31,418		29,398		22,414
Patronage distribution stock	5,973		5,968		4,695
Capital lease obligation	281		655		1,028
Supplemental Disclosure of Cash Flow Information					-,
Interest paid	\$ 282,645	<b>i</b> \$	236,702	\$	189,248



### Farm Credit Bank of Texas

(dollars in thousands, except per share amounts and as otherwise noted)

### Note 1 — Organization and Operations

#### A. Organization:

The Farm Credit Bank of Texas (FCBT or bank) is one of the banks of the Farm Credit System (System), a nationwide system of cooperatively owned banks and associations established by acts of Congress. The System is currently subject to the provisions of the Farm Credit Act of 1971, as amended (Farm Credit Act). The System specializes in providing financing and related services to qualified borrowers for agricultural and rural purposes.

As of December 31, 2017, the nation was served by three Farm Credit Banks (FCBs), each of which has specific lending authority within its chartered territory, and one Agricultural Credit Bank (ACB) — collectively, the "System banks" — which has nationwide lending authority for lending to cooperatives. The ACB also has the lending authorities of an FCB within its chartered territories. The bank is chartered to serve the states of Alabama, Louisiana, Mississippi, New Mexico and Texas.

Each FCB and the ACB serve one or more Federal Land Credit Associations (FLCAs) and/or Agricultural Credit Associations (ACAs). The bank and its related associations collectively are referred to as the Farm Credit Bank of Texas and affiliated associations (district). The district's one FLCA, 13 ACA parent associations, each containing two wholly-owned subsidiaries (an FLCA and a Production Credit Association [PCA]), certain Other Financing Institutions (OFIs) and preferred stockholders jointly owned the bank at December 31, 2017. The FLCA and ACAs collectively are referred to as associations.

Each FCB and the ACB provides funding for its district associations and is responsible for supervising the activities of the associations within its district. The FCBs and/or associations make loans to or for the benefit of eligible borrower-stockholders for qualified agricultural and rural purposes. District associations borrow the majority of their funds from their related bank. The System banks obtain a substantial majority of funds for their lending operations through the sale of consolidated Systemwide bonds and notes to the public, but also obtain a portion of their funds from internally generated earnings, from the issuance of common and preferred stock and, to a lesser extent, from the issuance of subordinated debt.

The Farm Credit Administration (FCA) is delegated authority by Congress to regulate the bank 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.

#### B. Operations:

The Farm Credit Act sets forth the types of authorized lending activities and financial services which can be offered by the bank and defines the eligible borrowers which it may serve.

The bank lends primarily to the district associations in the form of revolving lines of credit (direct notes) to fund the associations' loan portfolios. These direct notes are collateralized by a pledge of substantially all of each association's assets. The terms of the revolving direct notes are governed by a general financing agreement between the bank and each association. Each advance is structured so 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, the interest rate risk is effectively transferred to the bank. Advances are also made to fund general operating expenses of the associations. The FLCA borrows money from the bank and, in turn, originates and services long-term real estate and agribusiness loans to their members. ACAs borrow from the bank and in turn originate and service long-term mortgage loans through the FLCA subsidiary and short- and intermediate-term loans through the PCA subsidiary. The OFIs borrow from the bank and in turn originate and service short- and intermediate-term loans to their members. An association's indebtedness to the bank, under a general financing agreement between the bank and the association, represents demand borrowings by the association to fund the majority, but not all, of its loan advances to association member-borrowers.

In addition to providing loan funds to district associations, the bank also provides banking and support services to them, such as accounting, information systems, human resources and marketing. The fees charged by the bank for these services are included in the bank's noninterest income.

The bank is also authorized to provide, in participation with other lenders, 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 qualifying financial institutions engaged in lending to eligible borrowers.

The bank, in conjunction with other banks in the System, jointly owns several service organizations which were created to provide a variety of services for the System. The bank has ownership interests in the following service organizations:

- 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.
- Farm Credit System Building Association leases premises and equipment to the FCA, as required by the Farm Credit Act.

• Farm Credit System Association Captive Insurance Company — as 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.

The Farm Credit Act also established FCSIC to administer the Insurance Fund. The Insurance Fund is required to be used to (1) insure the timely payment of principal and interest on Systemwide debt obligations (insured debt), (2) 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 the discretionary uses, by FCSIC, of providing assistance to certain troubled System institutions and to cover the operating expenses of FCSIC. Each System bank is required to pay premiums, which may be passed on to the associations, into the Insurance Fund based on its annual average adjusted outstanding insured debt until the assets in the Insurance Fund reach the "secure base amount," which 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 FCSIC in its sole discretion determines to be actuarially sound. When the amount in the Insurance Fund exceeds the secure base amount, FCSIC is required to reduce premiums and may return excess funds above the secure base amount to System institutions.

# 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 notes as applicable.

Certain amounts in prior years' financial statements have been reclassified to conform to the current year's presentation.

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.

The multiemployer structure of certain retirement and benefit plans of the district results in the recording of these plans only in the combined financial statements of the district.

#### A. Cash:

Cash, as included in the financial statements, represents cash on hand and on deposit at banks and the Federal Reserve.

#### B. Investment Securities and Federal Funds:

The bank, as permitted under FCA regulations, holds eligible investments for the purposes of maintaining a liquidity reserve, managing short-term surplus funds and managing interest rate risk. The bank's investments are to be held for an indefinite time period and, accordingly, have been classified as available for sale at December 31, 2017, 2016 and 2015. These investments are reported at fair value, and unrealized holding gains and losses on investments are netted and reported as a separate component of members' equity in the balance sheet (accumulated other comprehensive gain [loss]). Changes in the fair value of these investments are reflected as direct charges or credits to other comprehensive income, unless the investment is deemed to be other-than-temporarily impaired. 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. Impairment is considered to be other-than-temporary 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 an entity 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 should be recognized currently in earnings in an amount equal to the entire difference between fair value and amortized cost. If a credit loss exists, but an entity 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 should be 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 recognized currently in earnings, with the remainder of the loss amount recognized in other comprehensive income. In subsequent periods, if the present value of cash flows expected to be collected is less than the amortized cost basis, the bank would record an additional other-than-temporarily impaired and adjust the yield of the security prospectively. The amount of total other-than-temporarily impaired for an available-for-sale security that previously was impaired is determined as the difference between its carrying amount prior to the determination of other-than-temporarily impaired and its fair value. Gains and losses on the sales of investments available-for-sale are determined using the specific identification method. Premiums and discounts are amortized or accreted into interest income over the term of the respective issues. The bank does not hold investments for trading purposes.

The bank may also hold additional investments in accordance with mission-related investment programs, approved by the Farm Credit Administration. These programs allow the bank to make investments that further the System's mission to serve rural America. Mission-related investments are not included in the bank's liquidity calculations and are not covered by the eligible investment limitations specified by the FCA regulations. Mortgage-backed securities issued by Federal Agricultural Mortgage Corporation (Farmer Mac) are considered other investments in the available-for-sale portfolio and are also excluded from the limitation and the bank's liquidity calculations. The bank is a limited partner in certain Rural Business Investment Companies (RBICs) for various relationship and strategic reasons. These RBICs facilitate equity and debt investments in agriculture-related businesses that create growth and job opportunities in rural America. These investments are accounted for under the equity method, as the bank is considered to have significant influence.

The bank's holdings in investment securities are more fully described in Note 3, "Investment Securities."

#### C. Loans and Reserves for Credit Losses:

Long-term real estate mortgage loans can have maturities ranging from five to 40 years. Substantially all short-term and intermediate-term loans are made for agricultural production or operating purposes and have maturities of 10 years or less.

Loans are carried at their principal amount outstanding adjusted for charge-offs and any unearned income or unamortized premium or discount. Interest on loans is accrued and credited to interest income based on the daily principal amount outstanding. Funds which are held by the bank on behalf of the borrowers, where legal right of setoff exists and which can be used to reduce outstanding loan balances at the bank's discretion, are netted against loans in the balance sheet.

Loan origination fee income and direct loan origination costs are capitalized and the net fee or cost is amortized over the life of the related loans as an adjustment to yield.

Impaired loans are loans for which it is probable that not all principal and interest will 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, accrual 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 shall remain contractually past due until it is formally restructured or until the entire amount past due, including principal, accrued interest and penalty interest incurred as the result of past due status, is collected or otherwise discharged in full.

A restructured loan constitutes a troubled debt restructuring if for economic or legal reasons related to the debtor's financial difficulties the bank or association grants a concession to the debtor that it would not otherwise consider. A concession is generally granted in order to minimize the bank's economic loss and avoid foreclosure. Concessions vary by program, are borrower-specific and may include interest rate reductions, term extensions, payment deferrals or the acceptance of additional collateral in lieu of payments. In limited circumstances, principal may be forgiven. A loan restructured in a troubled debt restructuring is an impaired loan. Impaired loans are generally placed in nonaccrual status when principal or interest is delinquent for 90 days (unless adequately secured and in the process of collection) or circumstances indicate that full collection of principal and interest is in doubt. In accordance with FCA regulations, all loans 180 days or more past due are considered nonaccrual. When a loan is placed in nonaccrual status, accrued interest that is considered uncollectible is either reversed (if current year interest) or charged against the allowance for loan losses (if prior year interest). Loans are charged off at the time they are determined to be uncollectible.

Payments received on nonaccrual loans are generally applied to 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, payments are recognized as interest income. Nonaccrual loans may be returned to accrual status when contractual principal and interest are current, the borrower has demonstrated payment performance, there are no unrecovered prior charge-offs and collection of future payments is no longer in doubt. If previously unrecognized interest income exists at the time the loan is transferred to accrual status, cash received at the time of or subsequent to the transfer is first recorded as interest income until such time as the recorded balance equals the contractual indebtedness of the borrower.

The bank and related associations use a two-dimensional loan rating model based on an 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 probability of default categories 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 more rapidly as a loan moves from a "9" to other assets especially mentioned and grows significantly as a loan moves to a substandard (viable) level. A substandard (nonviable) rating indicates that the probability of default is almost certain. 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 allowance for loan losses is a valuation account used to reasonably estimate loan and lease 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 determination of the allowance for loan losses is based on management's current judgments about the credit quality of its loan portfolio. A specific allowance may be established for impaired loans under authoritative accounting guidance. Impairment of these loans is measured based on the present value of expected future cash flows discounted at the loan's effective interest rate or, as practically expedient, at the loan's observable market price or fair value of the collateral if the loan is collateral-dependent.

The allowance for loan losses encompasses various judgments, evaluations and appraisals with respect to the loans and their underlying security that, by their nature, contain elements of uncertainty and imprecision. Changes in the agricultural economy and their impact on borrower repayment capacity will cause these various judgments, evaluations and appraisals to change over time. Accordingly, actual circumstances could vary significantly from the institutions' expectations and predictions of those circumstances. The allowance is increased through provisions for loan losses and loan recoveries and is decreased through reversals of provisions for loan losses and loan chargeoffs. The level of allowance for loan losses is generally based on recent charge-off experience adjusted for relevant environmental factors. The allowance for loan losses includes components for loans individually evaluated for impairment, loans collectively evaluated for impairment and loans acquired with deteriorated credit quality. Generally, for loans individually evaluated, the allowance for loan losses represents the difference between the recorded investment in the loan and the present value of the cash flows expected to be collected discounted at the loan's effective interest rate, or at the fair value of the collateral, if the loan is collateral-dependent. For those loans collectively evaluated for impairment, the allowance for loan losses is determined using the risk-rating model.

The allowance for loan losses is a valuation account used to reasonably estimate loan and lease 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 determination of the allowance for loan losses is based on management's current judgments about the credit quality of its loan portfolio. A specific allowance may be established for impaired loans under authoritative accounting guidance. Impairment of these loans is measured based on the present value of expected future cash flows discounted at the loan's effective interest rate or, as practically expedient, at the loan's observable market price or fair value of the collateral if the loan is collateral-dependent.

#### D. Other Property Owned:

Other property owned (OPO), consisting of real and personal property acquired through foreclosure or deed in lieu of foreclosure, is recorded at fair value, based on appraisal, less estimated selling costs upon acquisition. 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. On at least an annual basis, revised estimates to the fair value, established by appraisal, 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 and expenses from operations and carrying value adjustments are included in losses (gains) on OPO.

#### E. Premises and Equipment:

Premises and equipment are carried at cost less accumulated depreciation. Depreciation expense is calculated using the straight-line method over the estimated useful lives of three to 10 years for furniture, equipment and certain leasehold improvements, and three years for automobiles. Computer software and hardware are amortized over three to 10 years. Gains and losses on dispositions are reflected in current operations. Maintenance and repairs are charged to operating expense, and improvements are capitalized and amortized over the remaining useful life of the asset.

#### F. Other Assets and Other Liabilities:

The bank is authorized under the Farm Credit Act to accept "advance conditional payments" (ACPs) from borrowers. To the extent that the borrower's access to such ACPs is restricted and the legal right of setoff exists, the ACPs are netted against the borrower's related loan balance. Unrestricted advance conditional payments are included in other liabilities. ACPs are not insured, and interest is generally paid by the bank on such balances. There were no significant balances of ACPs at December 31, 2017, 2016 and 2015.

Derivative financial instruments are included on the balance sheet at fair value, as either other assets or other liabilities.

Other assets may also include any loans that are designated as a held-for-sale portfolio, of which there were none at December 31, 2017.

#### G. Employee Benefit Plans:

Employees of the bank participate in one of two districtwide retirement plans (a defined benefit plan and a defined contribution plan) and are eligible to participate in the 401(k) plan of the district. Within the 401(k) plan, a certain percentage of employee contributions is matched by the bank. The 401(k) plan costs are expensed as incurred. Additionally, certain qualified individuals in the bank may participate in a separate, nonqualified 401(k) plan. The structure of the district's defined benefit plan (DB plan) is characterized as multiemployer, since neither the assets, liabilities nor cost of the plan is segregated or separately accounted for by participating employers (bank and associations). No portion of any surplus assets is available to any participating employer. Participating employers are jointly and severally liable for the plan obligations. Upon withdrawal or termination of their participation in the plan, a participating employer must pay all associated costs of its withdrawal from the plan, including its unfunded liability (the difference between replacement annuities and the withdrawing employer's share of allocated plan assets). As a result, participating employers of the plan only recognize as cost the required contributions for the period and a liability for any unpaid contributions required for the period of their financial statements. Plan obligations, assets and the components of annual benefit expenses are recorded and reported upon combination at the district level only. The bank records current contributions to the DB plan as an expense in the current year.

In addition to pension benefits, the bank provides certain health-care benefits to qualifying retired employees (other postretirement benefits). These benefits are not characterized as multi-employer and, consequently, the liability for these benefits is included in other liabilities. Bank employees hired after January 1, 2004, will be eligible for retiree medical benefits for themselves and their spouses but will be responsible for 100 percent of the related premiums.

Authoritative accounting guidance requires the accrual of the expected cost of providing postretirement benefits other than pensions (primarily health-care benefits) to an employee and an employee's beneficiaries and covered dependents during the years that the employee renders service necessary to become eligible for these benefits.

#### H. Income Taxes:

The bank is exempt from federal and certain other income taxes as provided in the Farm Credit Act. The enactment of the Tax Cuts and Jobs Act of 2017 in late 2017 will not impact the bank's financial condition or results of operations.

#### I. Derivative Instruments and Hedging Activity:

In the normal course of business, the bank may enter into derivative financial instruments, including interest rate swaps and caps, which are principally used to manage interest rate risk on assets, liabilities and anticipated transactions. Derivatives are recorded on the balance sheet as assets and liabilities, measured at fair value.

In accordance with authoritative accounting guidance, for fairvalue hedge transactions, which hedge 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. For cash flow hedges, which hedge the exposure to variability in expected future cash flows, changes in the fair value of the derivative will generally be offset by an entry to accumulated other comprehensive income in shareholders' equity. 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 to specific liabilities on the balance sheet. The bank may use interest rate swaps whose critical terms match the corresponding hedged item, thereby qualifying for short-cut treatment under the provisions of authoritative accounting guidance, and are presumed to be highly effective in offsetting changes in the fair value. The bank would discontinue hedge accounting prospectively if it was determined that a hedge has not been or is not expected to be effective as a hedge. In the event that hedge accounting were discontinued and the derivative remained outstanding, the bank would carry the derivative at its fair value on the balance sheet, recognizing changes in fair value in current period earnings. See Note 15, "Derivative Instruments and Hedging Activity," for additional disclosures about derivative instruments.

#### J. Fair Value Measurements:

The Financial Accounting Standards Board (FASB) guidance defines fair value, establishes a framework for measuring fair value and expands disclosures about fair value measurements.

It describes three levels of inputs that may be used to measure fair value:

Level 1 — Quoted prices in active markets for identical assets or liabilities that the reporting entity has the ability to access at the measurement date. Included in Level 1 are assets held in trust funds, which relate to deferred compensation. The trust funds include investments that are actively traded and have quoted net asset values that are observable in the marketplace.

Level 2 — Observable inputs other than quoted prices included within Level 1 that are observable for the asset or liability either directly or indirectly. Level 2 inputs include the following: (a) quoted prices for similar assets or liabilities in active markets; (b) quoted prices for identical or similar assets or liabilities in markets that are not active so that they are traded less frequently than exchange-traded instruments, the prices are not current or principal market information is not released publicly; (c) inputs other than quoted prices that are observable such as interest rates and yield curves, prepayment speeds, credit risks and default rates; and (d) inputs derived principally from or corroborated by observable market data by correlation or other means. This category generally includes certain U.S. government and agency mortgagebacked debt securities, corporate debt securities and derivative contracts. The market value of collateral assets and liabilities is their face value, plus accrued interest, as these instruments are cash balances; therefore, fair value approximates face value.

Level 3 — Unobservable inputs are those that are supported by little or no market activity and that are significant to the determination of the fair value of the assets or liabilities. These unobservable inputs reflect the reporting entity's own assumptions about assumptions that market participants would use in pricing the asset or liability. Level 3 assets and liabilities include financial instruments whose value is determined using pricing models, discounted cash flow methodologies, or similar techniques, as well as instruments for which the determination of fair value requires significant management judgment or estimation. This category generally includes the bank's Federal Agricultural Mortgage Corporation (Farmer Mac) guaranteed agricultural mortgage-backed securities (AMBS), certain loans and OPO.

The fair value disclosures are presented in Note 14, "Fair Value Measurements."

#### K. Recently Issued or Adopted Accounting Pronouncements:

In August 2017, the Financial Accounting Standards Board (FASB) issued guidance entitled "Targeted Improvements to Accounting for Hedging Activities." The guidance better aligns an entity's risk management activities and financial reporting for hedging relationships through changes to both the designation and measurement guidance for qualifying hedging relationships and the presentation of hedge results. The amendments in this guidance require an entity to present the earnings effect of the hedging instrument in the same income statement line item in which the earnings effect of the hedged item is reported. This guidance also addresses the timing of effectiveness testing, qualitative and quantitative effectiveness testing, and components that can be excluded from effectiveness testing. This guidance becomes effective for interim and annual periods beginning after December 15, 2018. The bank is evaluating the impact of adoption on the bank's financial condition and results of operations.

In March 2017, the FASB issued guidance entitled "Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Cost." The guidance requires that an employer report the service cost component in the same line item or items as other compensation costs arising from services rendered by the pertinent employees during the period. Other components are required to be presented in the income statement separately from the service cost component and outside a subtotal of income from operations, if one is presented. This guidance becomes effective for interim and annual periods beginning after December 15, 2017. The adoption of this guidance will not impact the bank's financial condition but will change the classification of certain items in the results of operations.

In August 2016, the FASB issued guidance entitled "Classification of Certain Cash Receipts and Cash Payments." The guidance addresses specific cash flow issues with the objective of reducing the diversity in the classification of these cash flows. Included in the cash flow issues are debt repayment or debt extinguishment costs and settlement of zero-coupon debt instruments or other debt instruments with coupon interest rates that are insignificant in relation to the effective interest rate of the borrowing. This guidance becomes effective for interim and annual periods beginning after December 15, 2017. The adoption of this guidance is not expected to impact the bank's financial condition or its results of operations but could change the classification of certain items in the statement of cash flows. In June 2016, the FASB issued guidance entitled "Measurement of Credit Losses on Financial Instruments." The guidance replaces the current incurred loss impairment methodology with a methodology that reflects expected credit losses and requires consideration of a broader range of reasonable and supportable information to inform credit loss estimates. Credit losses relating to available-for-sale securities would also be recorded through an allowance for credit losses. For public business entities that are not U.S. Securities and Exchange Commission filers, this guidance becomes effective for interim and annual periods beginning after December 15, 2020, with early application permitted. The bank is evaluating the impact of adoption on the bank's financial condition and results of operations.

In February 2016, the FASB issued guidance entitled "Leases." The guidance requires the recognition by lessees of lease assets and lease liabilities on the balance sheet for the rights and obligations created by those leases. Leases with lease terms of more than 12 months are impacted by this guidance. This guidance becomes effective for interim and annual periods beginning after December 15, 2018, with early application permitted. The bank is evaluating the impact of adoption on its financial condition and results of operations.

In January 2016, the FASB issued guidance entitled "Recognition and Measurement of Financial Assets and Liabilities." The guidance affects, among other things, the presentation and disclosure requirements for financial instruments. For public entities, the guidance eliminates the requirement to disclose the methods and significant assumptions used to estimate the fair value of financial instruments carried at amortized cost. This guidance becomes effective for interim and annual periods beginning after December 15, 2017. The adoption of this guidance will not impact the bank's financial condition or its results of operations.

In May 2014, the FASB issued guidance entitled, "Revenue from Contracts with Customers." The guidance governs revenue recognition from contracts with customers and requires an entity to recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. Financial instruments and other contractual rights within the scope of other guidance issued by the FASB are excluded from the scope of this new revenue recognition guidance. In this regard, a majority of our contracts would be excluded from the scope of this new guidance. In August 2015, the FASB issued an update that deferred this guidance by one year, which results in the new revenue standard becoming effective for interim and annual reporting periods beginning after December 15, 2017. The bank has determined that the effect of adoption is not material to its financial condition or results of operations and will not change its current recognition practices.

#### L. Off-Balance-Sheet Credit Exposures:

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. Commercial letters of credit are conditional 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 the third party. The credit risk associated with commitments to extend credit and commercial 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.

#### M. Change in Accounting Principle – Debt Issuance Costs:

In April 2015, the Financial Accounting Standards Board (FASB) issued guidance entitled "Interest - Imputation of Interest." The guidance required debt issuance costs be presented in the balance sheet as a direct deduction from the carrying value of the debt liability. Prior to the issuance of the standard, debt issuance costs were required to be presented in the balance sheet as a deferred charge (asset). This guidance was to become effective for interim and annual reporting periods beginning after December 15, 2015, with early application permitted. The bank elected to adopt this guidance effective December 31, 2015, with the required retroactive application. The adoption of this guidance resulted in the Balance Sheets reclassification of unamortized debt issuance costs from "Other assets" to offset balance of the related debt liability, and had no impact on retained earnings or shareholders' equity and did not result in any change to the Statements of Comprehensive Income. The amounts reclassified from

"Other assets" to offset the related debt are summarized below:

	2015
Bonds and notes	\$ 13,652
Subordinated debt	199
Total reclassification from	
Other assets	\$ 13,851

### Note 3 — Investment Securities

The bank's available-for-sale investments include a liquidity portfolio and a portfolio of other investments. The liquidity portfolio consists primarily of agency-guaranteed debt instruments, mortgage-backed investments, U.S. Treasury securities, asset-backed investments and corporate debt. The bank's other investments portfolio consists of Federal Agricultural Mortgage Corporation (Farmer Mac) guaranteed agricultural mortgage-backed securities (AMBS) purchased from district associations in 2010, 2012 and 2014, as a part of the bank's Capitalized Participation Pool (CPP) program. In accordance with this program, any positive impact to the net income of the bank can be returned as patronage to the association if declared by the bank's board of directors. The declared patronage approximates the net earnings of the respective pool. The Farmer Mac securities are backed by loans originated by the associations and previously held by the associations under the Farmer Mac long-term standby commitments to purchase agreements.

Investments in the available-for-sale liquidity portfolio at December 31:

					201	7			
				Gross	6	iross			Weighted
	Ar	nortized	Uı	nrealized	Unrealized			Fair	Average
		Cost		Gains	L	osses		Value	Yield
Agency-guaranteed									
debt	\$	198,246	\$	30	\$	(3,028)	\$	195,248	1.94%
Corporate debt		252,482		556		(429)		252,609	1.84
Federal agency collateralized mortgage-backed securities:									
GNMA		2,012,484		706		(28,528)		1,984,662	1.99
FNMA and FHLMC		2,395,248		2,061		(25,256)		2,372,053	1.91
U.S. Treasury securities		249,860		-		(653)		249,207	0.90
Asset-backed securities		47,914		18		(43)		47,889	1.61
Total liquidity investments	\$	5,156,234	\$	3,371	\$	(57,937)	\$	5,101,668	1.88%

			Gri	oss	20	16 iross			Weighted
	Am	Amortized		alized		ealized		Fair	Average
		Cost	Ga	ins	Lo	osses		Value	Yield
Agency-guaranteed									
debt	\$	225,457	\$	160	\$	(3,243)	\$	222,374	1.80%
Corporate debt		202,365		461		(423)		202,403	1.41
Federal agency collateralized mortgage-backed									
securities:									
GNMA	-	1,697,627		1,452		(16,080)		1,682,999	1.61
FNMA and FHLMC	2	2,308,775		2,026		(20,222)	:	2,290,579	1.47
U.S. Treasury securities		249,502		-		(496)		249,006	0.90
Asset-backed securities		130,703		19		(43)		130,679	1.10
Total liquidity investments	\$ 4	1,814,429	\$	4,118	\$	(40,507)	\$4	4,778,040	1.49%

				2	015						
		Gross Gross									
	Ar	nortized	Unrea	alized	Uni	realized	Fair	Average			
		Cost	Ga	ins	L	osses	Value	Yield			
Agency-guaranteed											
debt	\$	252,436	\$	112	\$	(4,193)	\$ 248,355	1.68%			
Corporate debt		201,332		54		(784)	200,602	0.97			
Federal agency											
collateralized											
mortgage-backed											
securities:											
GNMA		1,740,411		3,778		(12,433)	1,731,756	1.51			
FNMA and FHLMC		2,008,449		2,996		(12,776)	1,998,669	1.31			
Asset-backed securities		200,485		2		(414)	200,073	0.85			
Total liquidity investments	\$	4,403,113	\$	6,942	\$	(30,600)	\$4,379,455	1.37%			

Investments in the available-for-sale other investments portfolio at December 31:

						2017			
		ortized Cost	Gross Unrealize Gains	d	Uni	Gross realized osses	-	air alue	Weighted Average Yield
Agricultural mortgage- backed securities	\$	45,564	\$	-	\$	(2,247)	\$	43,317	4.46%
						2016			
			Gross		(	Gross			Weighted
	Amortized		Unrealize	d	Un	realized	1	air	Average
	(	Cost	Gains		L	osses	V	alue	Yield
Agricultural mortgage- backed securities	\$	55,475	\$	-	\$	(2,140)	\$	53,335	4.23%
						2015			
			Gross		(	Gross			Weighted
	Am	ortized	Unrealize	d	Un	realized	1	Fair	Average
	(	Cost	Gains		L	osses	V	alue	Yield
Agricultural mortgage- backed securities	\$	67,268	\$	-	\$	(1,618)	\$	65,650	4.10%

There were no investments in the held-to-maturity portfolio at December 31, 2017, December 31, 2016 or December 31, 2015.

A summary of contractual maturity, amortized cost, estimated fair value and weighted average yield of the available-for-sale liquidity portfolio at December 31, 2017:

	0	Due in ne Year Dr Less	Year	After One Through e Years	Yea	e After Five rs Through O Years		Due After 10 Years	Total		
Agency-guaranteed	¢		¢	10 500	¢	170 710	¢		¢	105 0 40	
debt	\$	-	\$	18,532	\$	176,716	¢	-	\$	195,248	
Corporate debt		65,010		187,599		-		-		252,609	
Federal agency collateralized mortgage-backed securities											
GNMA		86		-		67,266		1,917,310	1	,984,662	
FNMA and FHLMC		1,344		51,742		397,820		1,921,147	2	,372,053	
U.S. Treasury securities		249,207		-		· -		-		249,207	
Asset-backed securities		1,045		44,529		2,315		-		47,889	
Total fair value	\$	316,692	\$	302,402	\$	644,117	\$	3,838,457	\$ 5	,101,668	
Total amortized cost	\$	317,331	\$	303,489	\$	651,835	\$	3,883,579	\$ 5	,156,234	
Weighted average yield		1.09%		1.73%		1.89%		1.96%		1.88%	

Collateralized mortgage obligations (CMOs) have stated contractual maturities in excess of 15 years. However, the security structure of the CMOs is designed to produce a relatively short-term life. At December 31, 2017, the CMO portfolio had a weighted average remaining life of 3.5 years.

Investments in the available-for-sale other investments portfolio at December 31, 2017:

	Due afte year thr five ye	ough	years	after five through years	Total		
Fair value of agricultural mortgage-backed							
securities	\$	4,056	\$	39,261	\$	43,317	
Total amortized cost Weighted average yield	\$	4,150 3.91%	\$	41,414 4.52%	\$	45,564 4.46%	

The ratings of the eligible investments held for maintaining a liquidity reserve, managing short-term surplus funds and managing interest rate risk must meet the applicable regulatory guidelines, which require these securities to be high-quality, senior class and rated triple-A at the time of purchase.

To achieve the ratings, these securities have a guarantee of timely payment of principal and interest or credit enhancement achieved through overcollateralization and the priority of payments of senior classes over junior classes. The bank performs analysis based on expected behavior of the loans, whereby these loan performance scenarios are applied against each security's credit-support structure to monitor credit-enhancement sufficiency to protect the investment. The model output includes projected cash flows, including any shortfalls in the capacity of the underlying collateral to fully return the original investment, plus accrued interest.

If an investment no longer meets the credit rating criteria, the investment becomes ineligible. At December 31, 2017, the bank held no investments that were ineligible for liquidity purposes by FCA standards.

The following table shows the fair value and gross unrealized losses for investments in a loss position aggregated by investment category, and the length of time the securities have been in a continuous unrealized loss position. The continuous loss position is based on the date the impairment occurred.

						December 3	1, 2017					
		Less Than 12	2 Months			Greater Than 1	2 Months			Tota	I	
		Fair		Unrealized		Fair		Unrealized		Fair		Unrealized
		Value		Losses		Value		Losses		Value		Losses
Agency-guaranteed debt	\$	68,088	\$	(460)	\$	112,869	\$	(2,568)	\$	180,957	\$	(3,028)
Corporate debt		64,635		(427)		14,998		(2)		79,633		(429)
Federal agency collateralized												
mortgage-backed securities GNMA				(0 = 4 0)				(10.010)				(00 500)
GNMA FNMA and FHLMC		848,826		(9,518)		880,604		(19,010)		1,729,430		(28,528)
U.S. Treasury securities		692,020		(5,917)		1,045,992 249,207		(19,339) (653)		1,738,012 249,207		(25,256)
Asset-backed securities		- 28,999		- (42)		249,207 2,072		(000) (1)		249,207 31,071		(653) (43)
Total	\$	1,702,568	s	(16,364)	\$	2,072	\$	(41,573)	s	4,008,310	\$	(57,937)
Total		1,702,300	ą	(10,304)	Ą	2,303,742	ą	(41,373)	ą	4,000,310	ą	(57,957)
						December 3						
		Less Than 12	2 Months			Greater Than 1	2 Months			Tota		
		Fair		Unrealized		Fair		Unrealized		Fair		Unrealized
		Value		Losses		Value		Losses		Value		Losses
Agency-guaranteed debt		\$ 97,764		\$ (1,380)		\$ 89,055	9	. (, ,	\$	,	\$	(3,243)
Corporate debt		14,993		(3)		27,098		(420)		42,091		(423)
Federal agency collateralized												
mortgage-backed securities GNMA		1,019,022		(8,613)		399.310		(7,467)		1.418.332		(16.080)
FNMA and FHLMC		1,343,532		(0,013)		599,510 511,743		(7,407) (5,556)		1,410,332		(10,080) (20,222)
U.S. Treasury securities		249.006		(14,000) (496)		511,745		(3,330)		249.006		(20,222) (496)
Asset-backed securities		47,705		(490) (39)		8,649		(4)		56,354		(430)
Total	\$		9	(03) 6 (25,197)		\$ 1,035,855	\$	(15,310)	\$	3,807,877	\$	(40,507)
	<del>\</del>	2,112,022		, (20,101)		¢ 1,000,000		(10,010)	Ŷ	0,001,011	Ψ	(10,001)
						December 3	1, 2015					
		Less Than 12	2 Months			Greater Than 1	2 Months			Tota	l	
		Fair		Unrealized		Fair		Unrealized		Fair		Unrealized
		Value		Losses		Value		Losses		Value		Losses
Agency-guaranteed debt	\$	,	9	( , ,		\$ 95,370	\$	(2,780)	\$	224,154	\$	(4,193)
Corporate debt		144,151		(637)		12,398		(147)		156,549		(784)
Federal agency collateralized												
mortgage-backed securities		400.000		(4 775)		574 700		(10.050)		070 754		(10, 100)
GNMA FNMA and FHLMC		406,962		(1,775)		571,789		(10,658)		978,751		(12,433)
Asset-backed securities		1,366,070		(7,925)		138,358		(4,851)		1,504,428		(12,776)
Asset-backed securities Total	\$	175,092	\$	(393) (12,143)		14,979 \$ 832,894	\$	(21)	\$	190,071	\$	(414)
Ιυίαι		2,221,059	\$	(12,143)		\$ 032,094	\$	(18,457)	\$	3,053,953	\$	(30,600)

As more fully discussed in Note 2, "Summary of Significant Accounting Policies," the guidance for other-than-temporarily impaired contemplates numerous factors in determining whether an impairment is other-than-temporary, including: (i) whether or not an entity intends to sell the security, (ii) whether it is more likely than not that an entity would be required to sell the security before recovering its costs or (iii) whether or not an entity expects to recover the security's entire amortized cost basis (even if it does not intend to sell). The bank performs a quarterly evaluation on a security-by-security basis considering all available information. 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 would equal the entire difference between amortized cost and fair value of the security. When the bank does not intend to sell securities in an unrealized loss position, other-than-temporarily impaired is considered using various factors, including the length of time and the extent to which the fair value is less than cost; adverse conditions specifically related to the industry, geographic area and the condition of the underlying collateral; payment structure of the security; ratings by rating agencies; the creditworthiness of bond insurers; and volatility of the fair value changes. The bank uses estimated cash flows over the remaining lives of the underlying collateral to assess whether credit losses exist. In estimating cash flows, the bank considers factors such as expectations of relevant market and economic data, including underlying loan level data for mortgage-backed and asset-backed securities and credit enhancements.

There were no other-than-temporarily impaired (OTTI) securities at December 31, 2017, 2016 or 2015.

# Note 4 — Loans and Reserves for Credit Losses

Loans comprised the following categories at December 31:

	2017	2016	2015
Direct notes receivable from district associations			
and OFIs	\$11,584,236	\$10,625,132	\$ 9,621,039
Participations purchased	5,500,659	5,283,917	5,149,552
Other bank-owned loans	282	354	415
Total loans	\$17,085,177	\$15,909,403	\$14,771,006

A summary of the bank's loan types at December 31 follows:

•	11		
	2017	2016	2015
Direct notes receivable from			
district associations	\$ 11,544,129	\$ 10,583,054	\$ 9,578,441
Real estate mortgage	445,116	463,955	314,098
Production and			
intermediate term	631,148	525,931	604,007
Agribusiness			
Loans to cooperatives	332,664	296,486	184,918
Processing and marketing	2,361,426	2,134,186	2,193,850
Farm-related business	79,879	132,813	164,074
Communications	326,297	335,171	345,555
Energy (rural utilities)	1,188,465	1,248,297	1,120,981
Water and waste disposal	104,920	129,116	144,187
Rural residential real estate	-	-	11
Agricultural export			
finance	-	-	9,713
Mission-related	16,351	18,316	68,573
Lease receivables	14,675	-	-
Loans to other financing			
institutions	 40,107	42,078	42,598
Total	\$ 17,085,177	\$ 15,909,403	\$ 14,771,006

The bank's capital markets loan portfolio predominantly includes participations, syndications and purchased whole loans, along with other financing structures within our lending authorities. The bank also refers to the capital markets portfolio as participations purchased. In addition to purchasing loans from our district associations, which may exceed their hold limits, the bank seeks 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 the bank or subparticipated to the associations or to other System entities.

The bank purchases or sells participation interests with other parties in order to diversify risk, manage loan volume and comply with Farm Credit Administration regulations.

The following table presents information on loan participations, excluding syndications, at December 31, 2017:

	01	her Farm Cred	tutions	Nor	n–Farm Cred	it Institut	ions	Total				
	Parti	cipations	Parti	cipations	Participations		Partici	pations	Parti	cipations	Parti	cipations
	Pu	rchased	1	Sold	Purchased		So	bld	Pu	rchased		Sold
Real estate mortgage	\$	719,840	\$	332,852	\$	-	\$	2,616	\$	719,840	\$	335,468
Production and intermediate term		1,449,104		810,643		18,972		60,399		1,468,076		871,042
Agribusiness		2,032,783		859,599		-		-		2,032,783		859,599
Communications		437,858		111,067		-		-		437,858		111,067
Energy (rural utilities)		1,352,609		163,888		-		-		1,352,609		163,888
Water and waste disposal		116,081		10,903		-		-		116,081		10,903
Lease receivables		16,611		1,954		-		-		16,611		1,954
Direct note receivable from												
district associations		-		3,850,000		-		-		-		3,850,000
Mission-related		2,554		-		-		-		2,554		-
Loans to other financing institutions		-		1,500		-		-		-		1,500
Total	\$	6,127,440	\$	6,142,406	\$	18,972	\$	63,015	\$	6,146,412	\$	6,205,421

A substantial portion of the bank's loan portfolio consists of direct 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, and therefore the bank's implicit concentration of credit risk in various agricultural commodities approximates that of the district as a whole. Loan concentrations are considered to exist when there are amounts loaned to borrowers engaged in similar activities, which could cause them to be similarly impacted by economic or other conditions. A substantial portion of the associations' lending activities is collateralized and the associations' exposure to credit loss associated with lending activities is reduced accordingly. An estimate of the bank's credit risk exposure is considered in the bank's allowance for loan losses.

At December 31, 2017, the bank had a total of \$3.85 billion of district association direct notes sold to another System bank. The sales included participations of 11 direct notes receivable from district associations. These sales provide diversification benefits between Farm Credit entities.

The bank has elected the fair value option for certain callable loans purchased on the secondary market at a significant premium. The fair value option provides an irrevocable option to elect fair value as an alternative measurement for selected financial assets. The fair value of loans held under the fair value option totaled \$9,908 at December 31, 2017. Fair value is used for both the initial and subsequent measurement of the designated instrument, with the changes in fair value recognized in net income. On these instruments, the related contractual interest income and premium amortization are recorded as Interest Income in the Statements of Comprehensive Income. The remaining changes in fair value on these instruments are recorded as net gains (losses) in noninterest income on the Statements of Comprehensive Income. The fair value of these instruments is included in Level 2 in the fair value hierarchy for assets recorded at fair value on a recurring basis.

The following is a summary of the transactions on loans for which the fair value option has been elected for the twelve months ended December 31, 2017:

Balance at January 1, 2017	\$ 16,311
Maturities, repayments and calls by issuers	(5,665)
Net losses on financial instruments under fair value option	(300)
Premium amortization	(438)
Balance at December 31, 2017	\$ 9,908

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 loans. Interest income recognized and cash payments received on nonaccrual impaired loans are applied in a similar manner as for nonaccrual loans, as described in Note 2, "Summary of Significant Accounting Policies."

In March 2010, the bank purchased loans which had experienced credit deterioration and OPO from a district association. The remaining loans from this purchase of \$1.2 million were transferred to accrual status in November 2013 and were included in "other bank-owned loans." The loans were sold at par to a district association during 2015.

The bank has purchased loan participations from two district associations in Capitalized Participation Pool (CPP) transactions. As a condition of the transactions, the bank redeemed stock in the amount of 2.0 percent of the par value of the loans purchased, and the associations bought bank stock equal to 8.0 percent of the purchased loans' par value. CPP loans held at December 31, 2017, totaled \$34,604.

The following table presents information concerning nonaccrual loans, accruing restructured loans and accruing loans 90 days or more past due, collectively referred to as "impaired loans." Restructured loans are loans whose terms have been modified and on which concessions have been granted because of borrower financial difficulties. The bank's impaired loans consisted of participations purchased; no direct notes to district associations were impaired at December 31, 2017, 2016 and 2015.

	December 31,										
		2017		2016		2015					
Nonaccrual loans											
Current as to											
principal and interest	\$	-	\$	2,862	\$	2,588					
Past due		3,393		-		2,084					
Total nonaccrual loans		3,393		2,862		4,672					
Impaired accrual loans											
Restructured accrual loans		2,607		6,495		16,102					
Total impaired accrual loans		2,607		6,495		16,102					
Total impaired loans	\$	6,000	\$	9,357	\$	20,774					

The increase in nonaccrual loans is attributable to loan transfers to nonaccruals during 2017 offset by repayments. The decrease in restructured accrual loans is attributable to transfers to nonaccrual status. The bank had no accruing loans 90 days or more past due at December 31, 2017, 2016 and 2015.

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

	:	2017	nber 31, 016	2	2015
Nonaccrual loans: Real estate mortgage Waste disposal Mission-related Total nonaccrual loans	\$	3,393 - - 3,393	\$ 967 - 1,895 2,862	\$	2,588 - 2,084 4,672
<b>Accruing restructured loans:</b> Real estate mortgage Production and		-	3,818		19
intermediate term Mission-related		- 2,607	- 2,677		13,341 2,742
Total accruing restructured loans		2,607	6,495		16,102
Total nonperforming loans Other property owned Total nonperforming assets	\$	6,000 - 6,000	\$ 9,357 - 9,357	\$	20,774 438 21,212

One credit quality indicator utilized by the bank is the Farm Credit Administration Uniform Loan Classification System that categorizes loans into five categories. The categories are defined as follows:

- Acceptable assets expected to be fully collectible and represent the highest quality
- Other assets especially mentioned (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 factors, conditions and values that make collection in full highly questionable, and
- Loss assets are considered uncollectible

The following table presents loans and related accrued interest classified under the Uniform Loan Classification System as a percentage of total loans and related accrued interest receivable by loan type as of December 31:

	2017	2016	2015
Real estate mortgage:	0.4.00/	00.0%	00 50/
Acceptable OAEM	94.2% 3.0	99.0% -	92.5% 6.7
Substandard/Doubtful	2.8	1.0	0.7
Cubolanda a Doublian	100.0%	100.0%	100.0%
Production and intermediate term:			
Acceptable	93.4%	98.8%	98.6%
OAEM	5.7	0.4	1.4
Substandard/Doubtful	0.9	0.8	-
A	100.0%	100.0%	100.0%
Agribusiness: Acceptable	99.5%	99.3%	98.4%
OAEM	-	0.4	1.3
Substandard/Doubtful	0.5	0.3	0.3
	100.0%	100.0%	100.0%
Energy & water/waste disposal:			
Acceptable	98.6%	94.9%	98.0%
OAEM	0.5	5.1	2.0
Substandard/Doubtful	<u> </u>	100.0%	100.0%
Rural residential real estate:	100.070	100.070	100.070
Acceptable	-	-	100.0%
OAEM	-	-	-
Substandard/Doubtful	-	-	-
	-	-	100.0%
Communications:	100.00/	00.0%	100.00/
Acceptable OAEM	100.0%	98.6%	100.0%
Substandard/Doubtful	-	1.4	-
Cubotanda a boubitan	100.0%	100.0%	100.0%
Agricultural export finance:			
Acceptable	-	-	100.0%
OAEM Substanderd (Daubtful	-	-	-
Substandard/Doubtful		-	100.0%
Direct notes to associations:			100.070
Acceptable	92.3%	100.0%	98.3%
OAEM	7.7	-	1.7
Substandard/Doubtful	-	-	-
	100.0%	100.0%	100.0%
Loans to other financing institutions:	100.0%	100.0%	100.0%
Acceptable OAEM	100.0%	100.0%	100.0%
Substandard/Doubtful	-	-	-
<i>,</i>	100.0%	100.0%	100.0%
Mission-related:			
Acceptable	100.0%	89.8%	97.0%
OAEM	-	-	-
Substandard/Doubtful	- 100.0%	<u>10.2</u> 100.0%	<u>3.0</u> 100.0%
Lease receivables:	100.0 /0	100.0 %	100.0 %
Acceptable	100.0%	_	-
OAEM	-	-	-
Substandard/Doubtful	-	-	-
	100.0%	-	-
Total Loans:			
Acceptable	94.2%	99.3%	98.2%
OAEM Substandard/Doubtful	5.5 0.3	0.5 0.2	1.7 0.1
oubstanuary Doublin	100.0%	100.0%	100.0%
-	100.0/0	100.070	100.070

The following table provides an age analysis of past due loans (including accrued interest) as of December 31, 2017:

	30-89 Days		More	ays or e Past		l Past	Less T	Past Due or han 30 Days	Total	Recorded I Greate 90 Days I	r Than Past Due
	Past Due		D	ue	D	lue	P	ast Due	Loans	and Ac	cruing
Real estate mortgage	\$	-	\$	3,393	\$	3,393	\$	445,621	\$ 449,014	\$	-
Production and intermediate term		-		-		-		633,330	633,330		-
Agribusiness		-		-		-		2,785,593	2,785,593		-
Energy & water/waste disposal		-		-		-		1,300,418	1,300,418		-
Lease receivables		-		-		-		14,717	14,717		-
Communications		-		-		-		326,705	326,705		-
Direct notes to associations		-		-		-		11,568,693	11,568,693		-
Loans to OFIs		-		-		-		40,187	40,187		-
Mission-related		-		-		-		16,596	16,596		-
Total	\$	-	\$	3,393	\$	3,393	\$	17,131,860	\$ 17,135,253	\$	-

The following table provides an age analysis of past due loans (including accrued interest) as of December 31, 2016:

The following table provides	U	30-89	90 Days or	(incre	iang acci			ast Due or		Recorded In Greater	
		Days	More Past		Total Pas	st L	Less Th	an 30 Days	Total	90 Days P	ast Due
	Pa	ast Due	Due		Due		Pa	st Due	Loans	and Acc	ruing
Real estate mortgage	\$	-	\$	-	\$	-	\$	467,157	\$ 467,157	\$	-
Production and intermediate term		-		-		-		527,619	527,619		-
Agribusiness		-		-		-		2,573,463	2,573,463		-
Energy & water/waste disposal		14,590		-		14,590		1,370,017	1,384,607		-
Communications		-		-		-		335,359	335,359		-
Direct notes to associations		-		-		-		10,603,982	10,603,982		-
Loans to OFIs		-		-		-		42,143	42,143		-
Mission-related		-		-		-		18,562	18,562		-
Total	\$	14,590	\$	-	\$	14,590	\$	15,938,302	\$ 15,952,892	\$	-

The following table provides an age analysis of past due loans (including accrued interest) as of December 31, 2015:

	30- Da Past	/S	90 Days More Pa Due		Total Pasi Due	t L	ess Th	ast Due or nan 30 Days ıst Due	l	Total .oans	Recorded Inv Greater 90 Days Pa and Acc	Than ast Due
Real estate mortgage	\$	-	\$	-	\$	-	\$	316,668	\$	316,668	\$	-
Production and intermediate term		-		-		-		605,952		605,952		-
Agribusiness		-		-		-		2,554,906		2,554,906		-
Energy & water/waste disposal		-		-		-		1,270,310		1,270,310		-
Communications		-		-		-		345,799		345,799		-
Agricultural export finance		-		-		-		9,734		9,734		-
Direct notes to associations		-		-		-		9,597,745		9,597,745		-
Loans to OFIs		-		-		-		42,647		42,647		-
Mission-related		-		2,084		2,084		66,981		69,065		-
Total	\$	-	\$	2,084	\$	2,084	\$	14,810,742	\$	14,812,826	\$	-

Note: The recorded investment in the 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 write-down of the investment.

A restructuring of a debt constitutes a troubled debt restructuring 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. Troubled debt restructurings are undertaken in order to improve the likelihood of recovery on the loan and may include, but are not limited to, forgiveness of principal or interest, interest rate reductions that are lower than the current market rate for new debt with similar risk, or significant term or payment extensions.

As of December 31, 2017, the total recorded investment of troubled debt restructured loans was \$6,000, with \$2,607 classified as accrual and \$3,393 classified as nonaccrual, with specific allowance for loan losses of \$82.

There were no payment defaults on troubled debt restructurings that occurred within the previous 12 months. A payment default is defined as a payment that is 30 days past due after the date the loan was restructured.

There were no additional commitments to lend to borrowers whose loans have been modified in TDRs at December 31, 2017 and December 31, 2016. The following table presents additional information regarding troubled debt restructurings, which includes both accrual and nonaccrual loans with troubled debt restructuring designation, that occurred during the year ended December 31, 2016. There were no new troubled debt restructurings identified during 2017 and 2015. The premodification outstanding recorded investment represents the recorded investment of the loans as of the quarter end prior to the restructuring. The postmodification outstanding recorded investment represents the recorded investment of the loans as of the quarter end the restructuring occurred.

For the year ended December 31, 2016:

	Premodi Outsta Recorded Ir	nding	Postmodification Outstanding Recorded Investment*				
Troubled debt restructurings: Mission-related	\$	2,066	\$	1,947			
Total	\$	2,066	\$	1,947			

\*Premodification represents the recorded investment prior to restructuring, and postmodification represents the recorded investment following the restructuring. The recorded investment is the face amount of the receivable increased or decreased by applicable accrued interest and unamortized premium, discount, finance charges or acquisition costs and may also reflect a previous direct write-down of the investment.

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

		Total Lo	ans Mo	odified as TD	Rs		TDRs in Nonaccrual Status					
-			Decem	ber 31,				D	December 31,			
-	2	017	20	016	2	015	201	7	201	16	2015	
Real estate mortgage	\$	3,393	\$	3,818	\$	19	\$	3,393	\$	-	\$	-
Production and intermediate term		-		-		13,341		-		-		-
Agribusiness		-		-		-		-		-		-
Mission-related		2,607		4,572		2,742		-		1,895		-
Total	\$	6,000	\$	8,390	\$	16,102	\$	3,393	\$	1,895	\$	-

Additional impaired loan information at December 31, 2017, is as follows:

	Reco Invest		Unpaid Principal Balance*		Related Allowan		Average Impaired Loans		Interest Income Recognized	
Impaired loans with a related										
allowance for credit losses:	٠	000	•	000	•	00	•	005	¢	45
Mission-related	\$	200	\$	200	\$	82	\$	205	\$	15
Total	\$	200	\$	200	\$	82	\$	205	\$	15
Impaired loans with no related										
allowance for credit losses:										
Real estate mortgage	\$	3,393	\$	3,393	\$	-	\$	4,007	\$	632
Production and intermediate term		-		3,035		-		-		-
Processing and marketing		-		1,192		-		-		-
Energy & water/waste disposal		-		7,623		-		-		-
Mission-related		2,407		2,407		-		4,034		146
Total	\$	5,800	\$	17,650	\$	-	\$	8,041	\$	778
Total impaired loans:										
Real estate mortgage	\$	3,393	\$	3,393	\$	-	\$	4,007	\$	632
Production and intermediate term		-		3,035		-		-		-
Processing and marketing		-		1,192		-		-		-
Energy & water/waste disposal		-		7,623		-		-		-
Mission-related		2,607		2,607		82		4,239		161
Total	\$	6,000	\$	17,850	\$	82	\$	8,246	\$	793

\*Unpaid principal balance represents the contractual obligations of the loans.

Additional impaired loan information at December 31, 2016, is as follows:

	 Recorded Investment		Unpaid Principal Balance*		Related Allowance		Average Impaired Loans		Interest Income Recognized	
Impaired loans with a related allowance for credit losses:										
Mission-related	\$ 210	\$	210	\$	78	\$	214	\$	14	
Total	\$ 210	\$	210	\$	78	\$	214	\$	14	
Impaired loans with no related allowance for credit losses:										
Real estate mortgage	\$ 4,785	\$	4,789	\$	-	\$	6,687	\$	153	
Production and intermediate term	-		3,035		-		6,836		375	
Processing and marketing	-		1,192		-		-		-	
Energy & water/waste disposal	-		9,043		-		-		-	
Mission-related	4,362		4,362		-		4,430		138	
Total	\$ 9,147	\$	22,421	\$	-	\$	17,953	\$	666	
Total impaired loans:										
Real estate mortgage	\$ 4,785	\$	4,789	\$	-	\$	6,687	\$	153	
Production and intermediate term	-		3,035		-		6,836		375	
Processing and marketing	-		1,192		-		-		-	
Energy & water/waste disposal	-		9,043		-		-		-	
Mission-related	4,572		4,572	\$	78		4,644		152	
Total	\$ 9,357	\$	22,631	\$	78	\$	18,167	\$	680	

\*Unpaid principal balance represents the contractual obligations of the loans.

Additional impaired loan information at December 31, 2015, is as follows:

	Recorded Investment		Unpaid Principal Balance*		Related Allowance		Average Impaired Loans		Interest Income Recognized	
Impaired loans with a related allowance for credit losses:										
	¢		ŕ		¢		¢	1 71 /	¢	
Energy & water/waste disposal	\$	-	\$	-	\$	-	\$	1,714	\$	-
Mission-related		219		219		75		852		54
Total	\$	219	\$	219	\$	75	\$	2,566	\$	54
Impaired loans with no related allowance for credit losses:										
	ŕ	0.007	¢	7 001	¢		¢	0 505	ŕ	50
Real estate mortgage	\$	2,607	\$	7,081	\$	-	\$	3,525	\$	52
Production and intermediate term		13,341		16,129		-		12,874		1,228
Processing and marketing		-		1,371		-		-		-
Energy & water/waste disposal		-		17,578		-		1,687		-
Mission-related	_	4,607		7,797		-		1,885		115
Total	\$	20,555	\$	49,956	\$	-	\$	19,971	\$	1,395
Total impaired loans:										
Real estate mortgage	\$	2,607	\$	7.081	\$	-	\$	3,525	\$	52
Production and intermediate term		13,341		16,129		-	·	12,874	·	1,228
Processing and marketing		-		1,371		-		-		
Energy & water/waste disposal		-		17,578		-		3,401		-
Mission-related		4,826		8,016		75		2,737		169
Total	\$	20,774	\$	50,175	\$	75	\$	22,537	\$	1,449

\*Unpaid principal balance represents the contractual obligations of the loans.

Interest income on nonaccrual and accruing restructured loans that would have been recognized under the original terms of the loans were as follows at December 31:

	20	)17	20	016	20	015
Interest income which would have been recognized under the original loan terms	\$	1,732	\$	1,965	\$	3,255
Less: interest income recognized		793		680		1,449
Foregone interest income	\$	939	\$	1,285	\$	1,806

A summary of changes in the allowance and reserves for credit losses and period end recorded investment (including accrued interest) in loans follows:

ioans ionows.			Produ ar						Energy and			Rural	Agricultura						
		al Estate  I ortgage		ediate	Aaribusii	ness	Communica		Water/Waste Disposal	e Lease Receivab		Residential Real Estate	Export Finance	Dire	ect Notes sociations	Loans to OFIs	Miss Rela		Total
Allowance for Credit Losses:		ongugo	10		riginouon	1000	oonnanoo		Biopooul			Tiour Lotuto	Tinunoo	10 /10	ooonanono	10 0110	1101		Total
Balance at	۴	74	¢	710	¢ (		¢	500	¢ 0.00	7 ¢		¢	¢	¢		ŕ	¢	00 ¢	7 650
December 31, 2016 Charge-offs	\$	74	\$	712	¢ د	2,259	\$	526	\$ 3,997	7\$ -	-	\$	- \$	- \$ -	-	\$	- \$	82 \$	7,650
Recoveries Provision for credit losses		24		-		5		-	1,420	)	-		-	-	-		-	-	1,449
(loan loss reversal)		25		229		270		(185)	(2,016	)	-		-	-	-		-	4	(1,673)
Other*		(6)		13		145		23	38	3	-		-	-	-		-	-	213
Balance at December 31, 2017	\$	117	\$	954	\$ 2	2,679	\$	364	\$ 3,439	9 \$	-	\$	- \$	- \$	_	\$	- \$	86 \$	7,639
Individually evaluated for impairment	\$	-	\$	-	\$	-	\$	-	\$	- \$	-	\$	- \$	- \$	-	\$	- \$	82 \$	82
Collectively evaluated for impairment		117		954	2	2,679		364	3,439	ĥ	-		_	-	-		_	4	7,557
Loans acquired with				004	-	_,070		004	0,400	,	-							-	1,001
deteriorated credit quality		-		-		-		-		-	-		-	-	-		-	-	-
Balance at																			
December 31, 2017	\$	117	\$	954	\$ 2	2,679	\$	364	\$ 3,439	) \$	-	\$	- \$	- \$	-	\$	- \$	86 \$	7,639
Recorded Investments in loans outstanding:																			
Balance at December 31, 2017	\$	449,014	¢ 63	<u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	¢ 0.704	5 502	¢ 22	6 705	\$ 1,300,418	8 \$ 14.3	717	¢	- \$	¢1	1 569 602	¢ /0.10	)7 ¢ 10	506 ¢1	7,135,253
Ending Balance for loans	φ	449,014	\$ 00	53,330	φ 2,70	5,595	<u>ې ۲</u>	0,705	\$ 1,300,410	ə ३14,	/ 1 /	φ.	- Þ	- ĵi	1,506,095	<b>ቅ 40,1</b> 0	57 \$ IC	5,590 \$1	7,135,255
individually evaluated for impairment	\$	3,393	¢	-	\$		¢	-	¢	- \$	_	\$	- \$	- \$1	1,568,693	¢	¢	0 607 ¢1	1,574,693
Ending Balance for loans	φ	3,393	Ą	-	φ	-	φ	-	φ.	- ф	-	φ	- <b>φ</b>	- ¢I	1,300,093	φ	- φ 2	2,007 \$1	1,374,093
collectively evaluated																			
for impairment	\$	445,621	\$ 63	33,330	\$ 2,785	5,593	\$ 32	6,705	\$ 1,300,418	3 \$14,	717	\$	- \$	- \$	-	\$ 40,18	37 \$ 13	3,989 \$	5,560,560
Ending Balance for loans acquired with																			
deteriorated credit quality	\$	-	\$	-	\$	-	\$	-	\$ ·	- \$	- :	\$	- \$	- \$	-	\$	- \$	- \$	-

\*Reserve for losses on letters of credit and unfunded commitments recorded in other liabilities

	Re	al Estate I	Production and ntermediat					Energy and Water/Waste	e L	ease		ural dential	Agricultural Export	Dir	ect Notes	Loans	Mis	sion-		
	Μ	ortgage	Term	Α	gribusiness	Com	munications	Disposal	Rec	eivables	Real	Estate	Finance	to A	ssociations	to OFIs	Rel	ated	To	otal
Allowance for Credit Losses: Balance at December 31, 2015	\$	789 \$	428	\$	1,586	\$	343 \$	6 2,575	\$	-	\$	- \$	3	\$	-	\$-	\$	109	\$	5,833
Charge-offs Recoveries Provision for credit losses Other*		- 12 (728) 1	- 354 (70)		- 179 524 (30)		- 1,367 (1,183) (1)	- 1,626 (204)		-		-	(3)			- - -		- - (27) -		- 1,558 563 (304)
Balance at December 31, 2016	\$	74 \$	712	\$	2,259	\$	526 \$	3,997	\$	-	\$	- \$	-	\$	-	\$ -	\$	82	\$	7,650
Individually evaluated for impairment Collectively evaluated	\$	- \$	-	\$	-	\$	- \$	-	\$	-	\$	- \$	-	\$	-	\$ -	\$	78	\$	78
for impairment Loans acquired with deteriorated credit quality		74	712		2,259		526 -	3,997		-		-	-		-	-		4		7,572
Balance at December 31, 2016	\$	74 \$	712	\$	2,259	\$	526 \$	3,997	\$	-	\$	- \$	-	\$	-	\$ -	\$	82	\$	7,650
Recorded Investments in loans outstanding: Balance at December 31, 2016	\$ 4	67,157 \$	527.619	\$	2,573,463	\$	335.359 \$	51,384,607	\$	-	\$	- \$	-	\$ 1	0,603,982	\$42,143	\$ 1	8.562	\$15.	952.892
Ending Balance for loans individually evaluated for impairment	\$	4,785 \$	-	\$	-	\$	- \$	<u>, , , , , , , , , , , , , , , , , , , </u>	\$	_	\$	- \$	-		0,603,982	. ,		-	. ,	613,340
Ending Balance for loans collectively evaluated for impairment	\$ 4	62,372 \$	527,619	\$	2,573,463	\$	335,359 \$	5 1,384,607	\$	-	\$	- \$		\$	-	\$42,143	\$ 1	3,989	\$5,	339,552
Ending Balance for loans acquired with deteriorated credit quality	\$	- \$	_	\$		\$	- \$		\$	_	\$	- \$		\$	_	\$ -	. \$	-	\$	
	Ψ	Ψ		Ψ		Ŷ	Ŷ		Ŷ		Ŧ	Ŷ		Ψ		Ŧ	Ŷ		Ŧ	

\*Reserve for losses on letters of credit and unfunded commitments recorded in other liabilities

		Pr I Estate Inte ortgage		Agribusiness	Comm	unications	Wate	gy and r/Waste posal	Lease Receivable	Rui Resido S Beal F	ential	Agricı Exp Fina	ort	Direct Notes to Associations	Loans to OFIs		sion- lated	Total
Allowance for Credit Losses:	1110	niyayo		ly industrices	oomin	unications	013	pusai			.31410	1 1110	1100	to Associations		по	atcu	Total
Balance at December 31, 2014 Charge-offs Recoveries Provision for credit losses	\$	794 \$ - 140	304 \$ - -	5 1,120 - 11	\$	200 - 142		7,590 (2,065) -	\$	- \$ - -	- -	\$	-	\$	- \$ - -	- \$ - -	104 \$ - -	10,112 (2,065) 293
(loan loss reversal) Other*		(173) 28	43 81	536 (81)		18 (17)		(2,940) (10)		-	-		3		-	-	7 (2)	(2,506) (1)
Balance at December 31, 2015	\$	789 \$	428 \$	5 1,586	\$	343	\$	2,575	\$	- \$		\$	3	\$	- \$	- \$	109 \$	5,833
Individually evaluated for impairment Collectively evaluated	\$	- \$	- \$		\$	-	\$	-	\$	- \$	-	\$	-	\$	- \$	- \$	75 \$	75
for impairment Loans acquired with deteriorated credit quality		789	428	1,586 -		343		2,575		-	-		3		-	-	34	5,758
Balance at December 31, 2015	\$	789 \$	428 \$	5 1,586	\$	343	\$	2,575	\$	- \$	-	\$	3	\$	- \$	- \$	109 \$	5,833
Recorded Investments in loans outstanding: Balance at December 31, 2015	\$ :	316,657 \$	605,952	\$ 2,554,906	\$	345,799	\$ 1,5	270,310	\$	- \$	11	\$	9,734	\$ 9,597,74	5 \$ 42,64	7\$6	9,065 \$1	4,812,826
Ending Balance for loans individually evaluated for impairment	\$	2,607 \$	13,341 \$		\$	-	\$	-	\$	- \$	-	\$	-	\$	- \$	- \$	4,826 \$	20,774
Ending Balance for loans collectively evaluated for impairment	\$ :	314.050 \$	592.611	\$ 2.554.906	\$	345.799	\$1:	270.310	\$	- \$	11	\$	9.734	\$ 9.597.74	5 \$ 42.64	7 \$ 6	4.239 \$1	
Ending Balance for loans acquired with		, ,	,	. , ,		,								. , ,			, ,	.,. 02,002
deteriorated credit quality	\$	- \$	- \$	-	\$	-	\$	-	\$	- \$	-	\$	-	\$	- \$	- \$	- \$	-

\*Reserve for losses on letters of credit and unfunded commitments recorded in other liabilities

The bank's reserves for credit losses include the allowance for loan losses and a reserve for losses on unfunded commitments. The reserve for losses on unfunded commitments includes letters of credit and unused loan commitments, and is recorded in "Other liabilities" in the Balance Sheets. At December 31, 2017, 2016 and 2015, the reserve totaled \$1,433, \$1,646 and \$1,342, respectively, representing management's estimate of probable credit losses related to letters of credit and unfunded commitments.

### Note 5 — Premises and Equipment

Premises and equipment comprised the following at:

	December 31,									
	2017	2016	2015							
Leasehold improvements Computer equipment &	\$ 2,519	\$ 2,468	\$ 2,390							
software	78,498	62,915	48,900							
Furniture and equipment	<u>3,364</u> 84,381	3,310 68,693	<u>3,066</u> 54,356							
Accumulated depreciation	(34,976)	(30,694)	(26,521)							
Total	\$ 49,405	\$ 37,999	\$ 27,835							

On September 30, 2003, the bank entered into a lease for approximately 102,500 square feet of office space to house its headquarters facility. The lease was effective September 30, 2003, and its term was from September 1, 2003, to August 31, 2013. On November 16, 2010, the bank entered into a lease amendment which extended the term of the lease to August 31, 2024. In addition, the lease amendment included expansion of the leased space to approximately 111,500 square feet of office space. Under the terms of the lease amendment, the bank will pay annual base rental ranging from \$18 per square foot in the first year to \$26 per square foot in the last year. Annual lease expenses for the facility, including certain operating expenses passed through from the landlord, were \$3,931, \$3,844 and \$3,504 for 2017, 2016 and 2015, respectively.

On July 31, 2015, the bank entered into a lease of computer network storage equipment, the terms of which provide for payments of \$32 per month for 36 months. In that the present value of the minimum lease payments is greater than 90 percent of the fair value of the asset at the inception of the lease, the lease has been capitalized. At December 31, 2017, the capitalized lease had a book value of \$249, net of depreciation totaling \$873, and a related liability of \$281. Interest on the capital lease obligation totaled \$7 during 2017.

Following is a schedule of the minimum lease payments remaining on building and computer leases:

	Minimum Lease Payments		
2018	\$	2,908	
2019		2,689	
2020		2,608	
2021		2,633	
2022		2,712	
Thereafter		4,691	
Total minimum lease payments	\$	18,241	

### Note 6 — Other Property Owned

OPO, consisting of real and personal property acquired through foreclosure or deed in lieu of foreclosure, is recorded at fair value, based on appraisal, less estimated selling costs upon acquisition. There was no OPO at December 31, 2017 and December 31, 2016, as compared to \$439 at December 31, 2015, respectively.

Net (loss) gain on OPO consists of the following for the years ended:

			Decem	ber 31:	
	20	)17	201	16	2015
(Loss) gain on sale, net	\$	-	\$	(439)	\$ 3,090
Net (loss) gain on other property owned	\$	-	\$	(439)	\$ 3,090

## Note 7 — Other Assets and Other Liabilities

Other assets comprised the following at December 31:

	2017	2016	2015
Investment in other			
System bank	\$ 127,297	\$ 112,713	\$ 98,867
Other accounts receivable	48,762	48,627	22,815
RBIC investments	11,789	6,775	3,776
Fair value of derivatives	8,932	8,074	504
Loan held for sale	-	-	4,850
Other	6,496	6,511	4,893
Total	\$ 203,276	\$ 182,700	\$ 135,705

Other liabilities comprised the following at December 31:

	 <b>2017</b> 2016			2015	
Payable to associations for cash management services Accounts payable –	\$ 27,795	\$	35,420	\$ 30,375	
participations	-		275	15,961	
Accounts payable – other	35,617		36,812	13,183	
Obligation for nonpension					
postretirement benefits	12,521		10,967	10,455	
Mortgage life reserve payable	4,068		3,850	3,667	
FCSIC premium payable	11,724		12,671	9,004	
Accrued building lease payable	3,154		3,363	3,488	
Other	5,896		4,764	4,752	
Total	\$ 100,775	\$	108,122	\$ 90,885	

## Note 8 — Bonds and Notes

#### Systemwide Debt Securities:

The System, unlike commercial banks and other depository institutions, obtains funds for its lending operations primarily from the sale of Systemwide debt securities issued by the banks through the Funding Corporation. Systemwide bonds, medium-term notes and discount notes (Systemwide debt securities) are the joint and several liability of the System banks. Certain conditions must be met before the bank can participate in the issuance of Systemwide debt securities. The bank 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 as a condition for participation in the issuance of Systemwide debt. This requirement does not provide holders of Systemwide debt securities, or bank and other bonds, with a security interest in any assets of the banks. In general, each bank determines its participation in each issue of Systemwide debt securities based on its funding and operating requirements, subject to the availability of eligible assets as described above and subject to Funding Corporation determinations and FCA approval. At December 31, 2017, the bank had such specified eligible assets totaling \$22.58 billion and obligations and accrued interest payable totaling \$21.01 billion, resulting in excess eligible assets of \$1.57 billion.

The System banks and the Funding Corporation have entered into the third amended and restated Market Access Agreement (MAA), which established criteria and procedures for the banks to provide certain information to the Funding Corporation 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 liability. At December 31, 2017, the bank was, and currently remains, in compliance with the conditions and requirements of the System banks' and the Funding Corporation's MAA.

Each issuance of Systemwide debt securities ranks equally, in accordance with the FCA regulations, 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 bank's participation in Systemwide debt securities at December 31, 2017, follows (dollars in thousands):

			Systemwi	de				
	 Bo	nds	Discount N	lotes	Total			
		Weighted		Weighted		Weighted		
		Average		Average		Average		
		Interest		Interest		Interest		
Year of Maturity	 Amount	Rate	Amount	Rate	Amount	Rate		
2018	\$ 5,337,408	1.22%	\$ 2,335,527	1.27%	\$ 7,672,935	1.24%		
2019	4,450,642	1.38	-	-	4,450,642	1.38		
2020	2,296,451	1.58	-	-	2,296,451	1.58		
2021	1,711,009	1.94	-	-	1,711,009	1.94		
2022	1,578,671	1.98	-	-	1,578,671	1.98		
Subsequent years	 3,241,515	2.71	-	-	3,241,515	2.71		
Total	\$ 18,615,696	1.69%	\$ 2,335,527	1.27%	\$ 20,951,223	1.64%		

In the preceding table, the weighted average interest rate reflects the effects of interest rate caps and interest rate swaps used to manage the interest rate risk on the bonds and notes issued by the bank. The bank's interest rate swap strategy is discussed more fully in Note 2, "Summary of Significant Accounting Policies," and Note 15, "Derivative Instruments and Hedging Activity."

Discount notes are issued with maturities ranging from one to 365 days. The average maturity of discount notes at December 31, 2017, was 135 days.

The bank's Systemwide debt includes callable debt, consisting of the following at December 31, 2017 (*dollars in thousands*):

Year of Maturity	Amount	Range of First Call Dates
2018	\$ 1,294,000	1/2/2018-1/28/2018
2019	1,751,984	1/1/2018-1/29/2018
2020	1,993,797	1/1/2018-9/14/2018
2021	1,405,111	1/1/2018-11/15/2018
2022	1,348,122	1/1/2018-3/27/2018
Subsequent years	2,709,673	1/1/2018-11/15/2018
Total	\$ 10,502,687	1/1/2018-11/15/2018

Callable debt may be called on the first call date and, generally, every day thereafter with seven days' notice. Expenses associated with the exercise of call options on debt issuances are included in interest expense.

As described in Note 1, "Organization and Operations," the Insurance Fund is available to ensure the timely payment of principal and interest on bank bonds and Systemwide debt securities (insured debt) of insured System banks to the extent net assets are available in the Insurance Fund. All other liabilities in the financial statements are uninsured. At December 31, 2017, the assets of the Insurance Fund aggregated \$4.85 billion; however, due to the other authorized uses of the Insurance Fund, there is no assurance that the amounts in the Insurance Fund will be sufficient to fund the timely payment of principal and interest on an insured debt obligation in the event of a default by any System bank having primary liability thereon.

FCSIC has an agreement with the Federal Financing Bank, a federal instrumentality subject to the supervision and direction of the U.S. Treasury, pursuant to which the Federal Financing Bank would advance funds to FCSIC. Under its existing statutory authority, FCSIC may use these funds to provide assistance to the System banks in demanding market circumstances which threaten the banks' ability to

pay maturing debt obligations. The agreement provides for advances of up to \$10.00 billion and terminates on September 30, 2018, unless otherwise renewed. The decision whether to seek funds from the Federal Financing Bank is in the discretion of FCSIC, and each funding obligation of the Federal Financing Bank is subject to various terms and conditions and, as a result, there can be no assurance that funding will be available if needed by the System.

#### Subordinated Debt:

In September 2008, the bank issued \$50.0 million of 8.406 percent unsecured subordinated notes due in 2018, generating proceeds of \$49.4 million. The proceeds were used to increase regulatory permanent capital and total surplus pursuant to FCA regulations and for general corporate purposes. Due to regulatory limitations on thirdparty capital (including preferred stock and subordinated debt) instituted upon the issuance of the bank's Class B Series 1 Noncumulative Subordinated Perpetual Preferred Stock, subordinated debt was no longer qualified for inclusion in permanent capital or total surplus. This debt was unsecured and subordinate to all other categories of creditors, including general creditors, and senior to all classes of shareholders. Interest was payable semi-annually on March 15 and September 15. In accordance with FCA's approval of the bank's subordinated debt offering, the bank's minimum net collateral ratio for all regulatory purposes while any subordinated debt was outstanding was 104.00 percent, instead of the 103.00 percent stated by regulation.

On March 10, 2016, the FCA approved a final rule to modify the regulatory capital requirements for System banks and associations, effective January 1, 2017. The final rule to modify regulatory capital requirements changed the favorable capital treatment of the subordinated debt, and, therefore, qualifies as a regulatory event triggering a right of redemption under the terms of the subordinate debt. On March 30, 2016, the bank's board approved a resolution authorizing the redemption of all outstanding debt at par. The redemption occurred on June 6, 2016.

#### Note 9 — Shareholders' Equity

During the third quarter, the association Class A common stockholders approved an amendment to the bank's capitalization bylaws. The amended bylaws became effective September 15, 2017, and were made to conform to the FCA's updated capital adequacy regulations, which were effective January 1, 2017. The amendment included the following updates:

- The bank's board of directors must adopt an annual capital resolution and obtain prior approval by the FCA prior to a distribution of allocated surplus. The distribution of allocated surplus must also meet the minimum permanent capital adequacy standards of the FCA capital adequacy regulation.
- A distribution of attributed unallocated surplus must obtain prior approval by the FCA.
- Preferred stock dividends would be declared in accordance with the applicable provisions of the FCA's capital adequacy regulations.
- The retirement of Class A voting common stock shall be made in accordance with the minimum holding periods set forth in the bank's board of directors' annual capital resolution and with prior approval by the FCA.
- The definition of patrons has been added to include associations, OFIs and other System institutions doing business with the bank on a patronage basis.
- No patronage distributions will be paid to any patrons if any stock is in violation of the annual resolution adopted by the board or FCA's capital adequacy regulations.

The amendments did not result in significant changes to the regulatory capital requirements as of September 30, 2017.

Descriptions of the bank's equities, capitalization requirements, and regulatory capitalization requirements and restrictions are provided below.

A. Description of Bank Equities:

Class B Series 1 Noncumulative Subordinated Perpetual Preferred Stock (Class B-1 preferred stock) - On August 26, 2010, the bank issued \$300.0 million of Class B noncumulative subordinated perpetual preferred stock, representing 300,000 shares at \$1,000 per share par value for net proceeds of \$296.6 million. The net proceeds of the issuance were used to increase the bank's capital and for general corporate purposes. Dividends on the preferred stock, if declared by the board of directors at its sole discretion, are noncumulative and are payable semi-annually in arrears on the fifteenth day of June and December in each year, commencing December 15, 2010, at an annual fixed rate of 10 percent of par value of \$1,000 per share. The Class B-1 preferred stock is not mandatorily redeemable at any time, but may be redeemed in whole or in part at the option of the bank after the dividend payment date in June 2020. The Class B-1 preferred stock ranks, both as to dividends and upon liquidation, senior to all outstanding capital stock. Class B-1 preferred stock dividends are required by "dividend/patronage stopper" clauses to be declared and accrued before payment of bank investment and direct note patronage to associations and OFIs can be paid. In 2017, 2016 and 2015, Class B-1 preferred stock dividends totaling \$30.0 million were declared and paid. At December 31, 2017, dividends payable on Class B-1 preferred stock totaled \$15.0 million.

Class B Series 2 Noncumulative Subordinated Perpetual Preferred Stock (Class B-2 preferred stock) – On July 23, 2013, the

bank issued \$300.0 million of Class B noncumulative subordinated perpetual preferred stock, Series 2, representing three million shares at \$100 per share par value, for net proceeds of \$296.0 million. Dividends on the Class B-2 preferred stock, if declared by the board of directors at its sole discretion, are noncumulative and are payable quarterly in arrears on the fifteenth day of March, June, September and December in each year, commencing September 15, 2013, at an annual fixed rate of 6.75 percent of par value of \$100 per share up to, but excluding September 15, 2023, from and after which date will be paid at an annual rate of the 3-Month USD LIBOR plus 4.01 percent. The Class B-2 preferred stock is not mandatorily redeemable at any time, but may be redeemed in whole or in part at the option of the bank on any dividend payment date on or after September 15, 2023. The Class B-2 preferred stock ranks, both as to dividends and upon liquidation, pari passu with respect to the existing Class B-1 preferred stock, and senior to all other classes of the bank's outstanding capital stock. Class B-2 preferred stock dividends are required by "dividend/patronage stopper" clauses to be declared and accrued before payment of bank investment and direct note patronage to associations and OFIs can be paid. In 2017, 2016 and 2015, Class B-2 preferred stock dividends totaling \$20.2 million were declared and paid. At December 31, 2017, dividends payable on Class B-2 preferred stock totaled \$5.1 million.

Class A Voting Common Stock - According to the bank's bylaws, the minimum and maximum stock investments that the bank may require of the ACAs and FLCA are 2 percent (or one thousand dollars, whichever is greater) and 5 percent. The investments in the bank are required to be in the form of Class A voting common stock (with a par value of \$5 per share) and allocated retained earnings. The current investment required of the associations is 2 percent of their average borrowings from the bank. Under the CPP program, the stock investment that the bank requires is 1.6 percent of each AMBS pool and 8 percent of each loan pool. No Class A voting common stock may be retired except at the sole discretion of the bank's board of directors, and provided that after such retirement, the bank shall meet minimum capital adequacy standards as may from time to time be promulgated by the FCA or such higher level as the board may from time to time establish in the bank's Capital Plan. There were 60.1 million shares, 56.6 million shares and 50.9 million shares of Class A voting common stock issued and outstanding at December 31, 2017, 2016 and 2015, respectively.

Class A Nonvoting Common Stock – The bank requires OFIs to make cash purchases of Class A nonvoting common stock (with a par value of \$5 per share) in the bank based on a minimum stock investment of 2 percent (or one thousand dollars, whichever is greater) and on a maximum of 5 percent. The current investment required of the OFIs is 2 percent of their average borrowings from the bank. No Class A nonvoting common stock may be retired except at the sole discretion of the bank's board of directors, and provided that after such retirement, the bank shall meet minimum capital adequacy standards as may from time to time be promulgated by the FCA or such higher level as the board may from time to time establish in the bank's Capital Plan. The bank has a first lien on these equities for the repayment of any indebtedness to the bank. There were 196 thousand shares, 232 thousand shares and 220 thousand shares of Class A nonvoting common stock issued and outstanding at December 31, 2017, 2016 and 2015, respectively.

Allocated retained earnings of \$39,144, \$33,171 and \$27,203 at December 31, 2017, 2016 and 2015, respectively, consisted of allocated equity for the payment of patronage on loans participated with another System bank.

At December 31, the bank's equities included the following:

	2017	2016	2015
Class A voting common stock – associations Class A nonvoting common stock – Other	\$ 300,261	\$ 282,880	\$ 254,723
Financing Institutions	978	1,158	1,100
Total common stock	301,239	284,038	255,823
Preferred stock	600,000	600,000	600,000
Allocated retained earnings Associations	_	_	
Other entities	39,144	33,171	27,203
Total allocated retained earnings	39,144	33,171	27,203
Total capital stock and allocated retained earnings	\$ 940,383	\$ 917,209	\$ 883,026

Patronage may be paid to the holders of Class A voting common stock, Class A nonvoting stock and allocated retained earnings of the bank, as the board of directors may determine by resolution, subject to the capitalization requirements defined by the FCA. During 2017, \$97,982 in cash patronage was declared to district associations, OFIs and other entities, compared to \$96,449 in 2016 and \$82,478 in 2015. Cash patronage in 2017 consisted of direct loan patronage of \$58,335, patronage on certain participations of \$31,424, patronage on association and OFI investment in the bank of \$6,113, and capitalized participation pool patronage of \$2,110.

# B. Regulatory Capitalization Requirements and Restrictions:

The Farm Credit Administration (FCA) sets minimum regulatory capital requirements for banks and associations. Effective January 1, 2017, new regulatory capital requirements for banks and associations were adopted. These new requirements replaced the core surplus and total surplus requirements with common equity tier 1, tier 1 capital and total capital risk-based capital ratio requirements. The new requirements also replaced the existing net collateral ratio for System banks with a tier 1 leverage ratio and an unallocated retained earnings (URE) and URE equivalents (UREE) leverage ratio that are applicable to both the banks and associations. The permanent capital ratio continues to remain in effect; however, the risk-adjusted assets are calculated differently than in the past.

The Farm Credit Act has defined permanent capital to include all capital except stock and other equities that may be retired upon the repayment of the holder's loan or otherwise at the option of the holder, or is otherwise not at risk. Risk-adjusted assets have been defined by regulations as the balance sheet assets and offbalance-sheet commitments adjusted by various percentages ranging from 0 to 1,250 percent, depending on the level of risk inherent in the various types of assets. The primary changes which generally have the impact of increasing risk-adjusted assets (decreasing risk-based regulatory capital ratios) were as follows:

- Inclusion of off-balance-sheet commitments less than 14 months
- Increased risk-weighting of most loans 90 days past due or in nonaccrual status
- Inclusion of unfunded commitments for direct notes receivable from district associations

The ratios are based on a three-month average daily balance in accordance with FCA regulations and are calculated as follows:

- Common equity tier 1 ratio is 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, paid-in capital, less certain regulatory required deductions including the amount of allocated investments in other System institutions, and the amount of purchased investments in other System institutions under the corresponding deduction approach, divided by average risk-adjusted assets.
- Tier 1 capital ratio is common equity tier 1 plus noncumulative perpetual preferred stock, divided by average riskadjusted assets.
- Total capital is tier 1 capital plus other required borrower stock held for a minimum of 5 years, allocated equities 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, allowance and reserve for credit losses under certain limitations less certain investments in other System institutions under the corresponding deduction approach, divided by average risk-adjusted assets.
- Permanent capital ratio (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 allocated and purchased investments in other System institutions, divided by PCR risk-adjusted assets.
- Tier 1 leverage ratio is tier 1 capital, including regulatory deductions, divided by average assets less regulatory deductions subject to tier 1 capital.
- UREE leverage ratio is unallocated retained earnings, paid-in capital, allocated surplus not subject to revolvement less certain regulatory required deductions including the amount of allocated investments in other System institutions divided by average assets less regulatory deductions subject to tier 1 capital.

If the capital ratios fall below the total requirements, including the buffer amounts, capital distributions and discretionary executive bonuses are restricted or prohibited without prior FCA approval. The following table reflects the bank's capital ratios at December 31:

					TULAI
			Regulatory	Conservation	Regulatory
2017*	2016	2015	Minimums	buffers	Minimums
16.60%	17.40%	17.74%	7.00%	0.0%	7.00%
10.52	n/a	n/a	4.50	2.5**	7.00
16.59	n/a	n/a	6.00	2.5**	8.50
16.68	n/a	n/a	8.50	2.5**	10.50
7.33	n/a	n/a	4.00	1.0	5.00
3.08	n/a	n/a	1.50	0.0	1.50
	16.60% 10.52 16.59 16.68 7.33	16.60% 17.40%   10.52 n/a   16.59 n/a   16.68 n/a   7.33 n/a	16.60% 17.40% 17.74%   10.52 n/a n/a   16.59 n/a n/a   16.68 n/a n/a   7.33 n/a n/a	2017* 2016 2015 Minimums   16.60% 17.40% 17.74% 7.00%   10.52 n/a n/a 4.50   16.59 n/a n/a 6.00   16.68 n/a n/a 8.50   7.33 n/a n/a 4.00	2017* 2016 2015 Minimums buffers   16.60% 17.40% 17.74% 7.00% 0.0%   10.52 n/a n/a 4.50 2.5**   16.69 n/a n/a 6.00 2.5**   16.68 n/a n/a 8.50 2.5**   7.33 n/a n/a 4.00 1.0

I

Total

\*Effective January 1, 2017 the new regulatory capital ratios were implemented by the bank. Regulatory ratios remained well above regulatory minimums, including the conservation and leverage buffers at December 31, 2017.

\*\*The 2.5% capital conservation buffer for the risk-adjusted ratios will be phased in over a three-year period ending December 31, 2019.

The components of the bank's risk-adjusted capital, based on 90-day average balances, were as follows at December 31, 2017:

(dollars in thousands)	Common equity tier 1 ratio	Tier 1 capital ratio	Total capital ratio	Permanent capital ratio
Numerator:				
Unallocated retained earnings	\$ 851,333	\$ 851,333	\$ 851,333	\$ 851,333
Common Cooperative Equities:				
Purchased other required stock $\geq$ 7 years	248,931	248,931	248,931	248,931
Allocated stock $\geq$ 7 years	36,042	36,042	36,042	36,042
Allocated equities:				
Allocated equities held $\geq$ 7 years	33,365	33,365	33,365	33,365
Non-cumulative perpetual preferred stock	-	600,000	600,000	600,000
Allowance for loan losses and reserve for credit losses subject to certain limitations	-	-	9,638	-
Regulatory Adjustments and Deductions:				
Amount of allocated investments in other System institutions	(127,533)	(127,533)	(127,533)	(127,533)
Other regulatory required deductions	(265)	(265)	(265)	(265)
Total	\$ 1,041,873	\$ 1,641,873	\$ 1,651,511	\$ 1,641,873
Denominator:				
Risk-adjusted assets excluding allowance	\$ 9,899,452	\$ 9,899,452	\$ 9,899,452	\$ 9,899,452
Regulatory Adjustments and Deductions:				-
Allowance for loan losses	-	-	-	(8,085)
Total	\$ 9,899,452	\$ 9,899,452	\$ 9,899,452	\$ 9,891,367

The components of the bank's non-risk-adjusted capital, based on 90-day average balances, were as follows at December 31, 2017:

	Ti	UREE			
(dollars in thousands)	levera	ge ratio	leverage ratio		
Numerator:					
Unallocated retained earnings	\$	851,333	\$	851,333	
Common Cooperative Equities:					
Purchased other required stock $\geq$ 7 years		248,931		-	
Allocated stock $\geq$ 7 years		36,042		-	
Allocated equities:					
Allocated equities held $\geq$ 7 years		33,365		-	
Non-cumulative perpetual preferred stock		600,000		-	
Regulatory Adjustments and Deductions:					
Amount of allocated investments in other System institutions		(127,533)		(127,533)	
Amount of allocated equities in other System institutions		-		(33,365)	
Other regulatory required deductions		(265)		-	
Total	\$	1,641,873	\$	690,435	
Denominator:					
Total Assets	\$	22,554,092	\$	22,554,092	
Regulatory Adjustments and Deductions:					
Regulatory deductions included in tier 1 capital		(142,802)		(142,802)	
Total	\$	22,411,290	\$	22,411,290	

### C. Accumulated Other Comprehensive (Loss) Income:

Following is a summary of the components of accumulated other comprehensive (loss) income (AOCI) and the changes occurring during the year ended December 31, 2017:

	Total		Unrealized Loss on Securities		Postretirement Benefit Plans		Cash Flow Derivative Instruments	
Balance, January 1, 2017	\$	(32,579)	\$	(38,529)	\$	(471)	\$	6,421
Change in unrealized losses on available-for-sale securities								
Net change in unrealized losses on investment securities		(18,284)		(18,284)				
Net change in unrealized losses on securities		(18,284)		(18,284)				
Change in postretirement benefit plans								
Actuarial losses		(1,158)				(1,158)		
Amounts amortized into net periodic expense:								
Amortization of prior service credits		(186)				(186)		
Net change in postretirement benefit plans		(1,344)		_		(1,344)		
Change in cash flow derivative instruments				_				
Unrealized loss on cash flow derivative instruments		(666)						(666)
Reclassification of loss recognized in interest expense		971						971
Net change in cash flow derivative instruments		305				_		305
Total other comprehensive (loss) income		(19,323)		(18,284)		(1,344)		305
Balance, December 31, 2017	\$	(51,902)	\$	(56,813)	\$	(1,815)	\$	6,726

Following is a summary of the components of accumulated other comprehensive income (loss) (AOCI) and the changes occurring during the year ended December 31, 2016:

	Total		Unrealized Loss on Securities		Postretirement Benefit Plans		Cash Flow Derivative Instruments	
Balance, January 1, 2016	\$	(27,331)	\$	(25,276)	\$	(148)	\$	(1,907)
Change in unrealized losses on available-for-sale securities								
Net change in unrealized losses on investment securities		(13,253)		(13,253)				
Net change in unrealized losses on securities		(13,253)		(13,253)				
Change in postretirement benefit plans								
Actuarial losses		(137)				(137)		
Amounts amortized into net periodic expense:								
Amortization of prior service credits		(186)				(186)		
Net change in postretirement benefit plans		(323)				(323)		
Change in cash flow derivative instruments								
Unrealized gains on cash flow derivative instruments		6,507						6,507
Reclassification of loss recognized in interest expense		1,821						1,821
Net change in cash flow derivative instruments		8,328				_		8,328
Total other comprehensive (loss) income		(5,248)		(13,253)		(323)		8,328
– Balance, December 31, 2016	\$	(32,579)	\$	(38,529)	\$	(471)	\$	6,421

Following is a summary of the components of accumulated other comprehensive income (loss) (AOCI) and the changes occurring during the year ended December 31, 2015:

	Total		Unrealized Loss on Securities		Postretirement Benefit Plans		Cash Flow Derivative Instruments	
Balance, January 1, 2015	\$	(19,822)	\$	(16,100)	\$	(1,027)	\$	(2,695)
Change in unrealized losses on available-for-sale securities								
Net change in unrealized losses on investment securities		(9,176)		(9,176)				
Net change in unrealized losses on securities		(9,176)		(9,176)				
Change in postretirement benefit plans								
Actuarial losses		994				994		
Amounts amortized into net periodic expense:								
Amortization of prior service credits		(186)				(186)		
Amortization of net losses		71				71		
Net change in postretirement benefit plans		879		_		879		
Change in cash flow derivative instruments								
Unrealized losses on interest rate caps		(586)						(586)
Reclassification of loss recognized in interest expense		1,374				_		1,374
Net change in cash flow derivative instruments		788				_		788
Total other comprehensive (loss) income		(7,509)		(9,176)		879		788
Balance, December 31, 2015	\$	(27,331)	\$	(25,276)	\$	(148)	\$	(1,907)

The following table summarizes amounts reclassified out of accumulated other comprehensive loss to current earnings:

Description	_		 ied from Acci prehensive Lo	Location of Gain (Loss) Recognized in Statement of Comprehensive Income	
		2017	2016	2015	
Postretirement Benefit Plans					
Amortization of prior service credits	\$	186	\$ 186	\$ 186	Salaries and employee benefits
Amortization of net actuarial losses		-	-	(71)	Salaries and employee benefits
Cash Flow Derivative Instruments					
Losses on cash flow derivatives		(971)	(1,821)	(1,374)	Interest expense
	\$	(785)	\$ (1,635)	\$ (1,259)	

### Note 10 — Employee Benefit Plans

Employees of the bank participate in either the district's defined benefit retirement plan (DB plan) or in a nonelective defined contribution feature (DC plan) within the Farm Credit Benefits Alliance 401(k) plan. In addition, all benefits-eligible employees are eligible to participate in the Farm Credit Benefits Alliance 401(k) plan.

The structure of the district's DB plan is characterized as multiemployer, since neither the assets, liabilities nor cost of any plan is segregated or separately accounted for by participating employers (bank and associations). No portion of any surplus assets is available to any participating employer. As a result, participating employers of the plan only recognize as cost the required contributions for the period and a liability for any unpaid contributions required for the period of their financial statements. Plan obligations, assets and the components of annual benefit expenses are recorded and reported upon district combination only. The bank records current contributions to the DB plan as an expense in the current year.

The DB plan is noncontributory, and benefits are based on salary and years of service. The legal name of the plan is Farm Credit Bank of Texas Pension Plan; its employer identification number is 74-1110170. The DB plan is not subject to any contractual expiration dates. The DB plan's funding policy is to fund current year benefits expected to be earned by covered employees. The plan sponsor is the board of directors of the bank. The "projected unit credit" actuarial method is used for both financial reporting and funding purposes. District employers have the option of providing enhanced retirement benefits, under certain conditions, within the DB plan, to facilitate reorganization and/or restructuring. Actuarial information regarding the DB pension plan accumulated benefit obligation and plan asset is calculated for the district as a whole and is presented in the district's Annual Report to Stockholders. The actuarial present value of vested and nonvested accumulated benefit obligation exceeded the net assets of the DB plan as of December 31, 2017.

The risks of participating in this multiemployer plan are different from single-employer plans in the following aspects:

- a. Assets contributed to the multiemployer plan by one employer may be used to provide benefits to employees of other participating employers.
- b. If a participating employer stops contributing to the plan, the unfunded obligations of the plan may be borne by the remaining participating employers.
c. If the participating employer chooses to stop participating in the multiemployer plan, it may be required to pay the plan an amount based on the underfunded status of the plan, referred to as a withdrawal liability.

The following table includes additional information regarding the funded status of the plan, the bank's contributions and the percentage of bank contribution to total plan contributions for the years ended December 31, 2017, 2016 and 2015:

	2017	2016	2015
Funded status of plan	 <b>69.7</b> %	66.4%	66.8%
Bank's contribution	\$ 610	\$ 691	\$ 985
Percentage of bank's			
contribution to total			
contributions	5.3%	5.9%	9.2%

The funded status presented above is based on the percentage of plan assets to projected benefit obligations. DB plan funding is based on the percentage of plan assets to the accumulated benefit obligation, which was 73.4 percent, 70.6 percent and 72.5 percent at December 31, 2017, 2016 and 2015, respectively.

Actuarial information regarding the DB pension plan accumulated benefit obligation and plan assets is calculated for the district as a whole and is presented in the district's Annual Report to Stockholders.

Participants in the DC plan generally include employees who elected to transfer from the DB plan prior to January 1, 1996, and all employees hired on or after January 1, 1996. Participants in the non-elective pension feature of the DC plan direct the placement of their employers' contributions (5 percent of eligible compensation during 2017) made on their behalf into various investment alternatives.

The district also participates in the Farm Credit Benefits Alliance 401(k) plan, which offers a pre-tax and after-tax Roth compensation deferral feature. Employers match 100 percent of employee contributions for the first 3 percent of eligible compensation and then match 50 percent of employee contributions on the next 2 percent of eligible compensation, for a maximum employer contribution of 4 percent of eligible compensation.

Certain executive or highly compensated employees in the bank are eligible to participate in a separate nonqualified supplemental 401(k) plan, named the Farm Credit Benefits Alliance Nonqualified Supplemental 401(k) Plan (Supplemental 401(k) Plan). This plan allows district employers to elect to participate in any or all of the following benefits:

- Restored Employer Contributions to allow "make-up" contributions for eligible employees whose benefits to the qualified 401(k) plan were limited by the Internal Revenue Code during the year
- Elective Deferrals to allow eligible employees to make pre-tax deferrals of compensation above and beyond any deferrals into the qualified 401(k) plan
- Discretionary Contributions to allow participating employers to make a discretionary contribution to an eligible employee's account in the plan, and to designate a vesting schedule

Contributions of \$104, \$56 and \$44 were made to this plan for the years ended December 31, 2017, 2016 and 2015. There were no distributions from the plan in 2017, 2016 and 2015. The present value of accumulated benefits and funded balance in the plan totaled \$557 at December 31, 2017.

The following table presents the bank's retirement benefit expenses for the years ended:

	201	17	201	6	2015	
District DB plan	\$	610	\$	691	\$	985
DC plan		1,395		1,311		1,210
401(k) plan		1,088		989		929
Supplemental 401(k) plan		104		56		44
Total	\$	3,197	\$	3,047	\$	3,168

The bank provides certain health care benefits to qualifying retired employees (other postretirement benefits). These benefits are not characterized as multiemployer and, consequently, the liability for these benefits is included in other liabilities. Bank employees hired on or after January 1, 2004, may be eligible for retiree medical benefits for themselves and their spouses at their expense and will be responsible for 100 percent of the related premiums. The following tables reflect the benefit obligation, cost, funded status and actuarial assumptions for the bank's other postretirement benefits:

Service cost       242       236       280         Interest cost       496       485       496         Plan participants' contributions       69       72       84         Plan amendments       -       -       -         Curtailment loss       -       -       -         Actuarial loss (gain)       1,158       137       (994)         Benefits paid       (411)       (418)       (459)         Projected benefit obligation, end of year       \$ 12,521       \$ 10,967       \$ 10,455         Change in plan assets       -       -       -       -         Plan assets at fair value, beginning of year       -       -       -       -         Company contributions       342       346       375       -       -       -         Plan assets at fair value, end of year       -			Other	Postretirement Benefits					
Projected benefit obligation, beginning of year     \$ 10,967     \$ 10,455     \$ 11,048       Service cost     242     236     240       Interest cost     496     485     496       Plan pancingants' contributions     69     72     84       Plan anendments     -     -     -       Curtailment loss     -     -     -     -       Actuarial loss (gain)     1,158     137     (994)       Benefits paid     (411)     (418)     (459)       Projected benefit obligation, end of year     S<12,521     \$ 10,967     \$ 10,455       Change inplan assets     -     -     -     -       Company contributions     342     346     375       Plan assets at fair value, end of year     -     -     -       Funded status at end of year     -     -     -       Funded status at end of year     \$ (12,521)     \$ (10,967)     \$ (10,455)       Amounts recognized in the balance sheets consist of:     0     0     0       Other postretirement liabilities     \$ (12,521)     \$ (10,967)     \$ (10,455)       Accumulated other     - <th></th> <th>20</th> <th>017</th> <th>201</th> <th>6</th> <th>2</th> <th>015</th>		20	017	201	6	2	015		
beginning of year       \$ 10,967       \$ 10,455       \$ 11,048         Service cost       242       236       280         Interest cost       496       485       486         Plan participants' contributions       69       72       84         Plan amendments       -       -       -         Curtailment loss       -       -       -         Actuarial loss (gain)       1,158       137       (994)         Benefits paid       (411)       (418)       (459)         Projected benefit obligation, end of year       \$ 12,521       \$ 10,967       \$ 10,455         Plan assets       -       -       -       -         Service cost influences       \$ 12,521       \$ 10,967       \$ 10,455         Plan assets at fair value, beginning of year       -       -       -         Actual return on plan assets       -       -       -       -         Plan assets at fair value, end of year       \$ (12,521)       \$ (10,967)       \$ (10,455)         Actual return on plan assets       \$ (12,521)       \$ (10,967)       \$ (10,455)         Accumulate other       \$ (12,521)       \$ (10,9	Change in projected benefit obligation								
Service cost Interest cost       242       236       280         Interest cost       496       485       496         Plan participants' contributions       69       72       84         Plan amendments       -       -       -         Cutailment loss (gain)       1,158       137       (994)         Projected benefit obligation, end of year       S       12,521       \$       10,967       \$       10,455         Change in plan assets       -       -       -       -       -       -         Plan participants' contributions       69       72       84       846       375         Plan participants' contributions       69       72       84       846       375         Plan assets at fair value, end of year       -       -       -       -       -         Funded status at end of year       -       -       -       -       -       -         Funded status at end of year       \$       (12,521)       \$       (10,455)       Amounts recognized in accumulated other       -       -       -       -       -       -       -       -       - <th>Projected benefit obligation,</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Projected benefit obligation,								
Interest cost       496       485       496         Plan participants' contributions       69       72       84         Plan amendments       -       -       -         Curtailment loss       -       -       -       -         Curtailment loss       -       -       -       -       -         Curtailment loss       -       -       -       -       -       -         Curtailment loss       -       <	beginning of year	\$	10,967	\$	10,455	\$	11,048		
Plan participants' contributions     69     72     44       Plan participants' contributions     69     72     84       Plan participants' contributions     -     -     -     -       Curtailment loss     -     -     -     -     -       Actuarial loss (gain)     1,158     137     (994)       Benefits paid     (411)     (418)     (459)       Projected benefit obligation, end of year     \$     12,521     \$     10,967     \$     10,455       Change in plan assets     -	Service cost		242		236		280		
Plan participants' contributions     69     72     84       Plan amendments     -     -     -     -       Cutraliment floss     -     -     -     -     -       Actuarial loss (gain)     1,158     137     (994)       Benefits paid     (411)     (418)     (459)       Projected benefit obligation, end of year     \$ 12,521     \$ 10,967     \$ 10,455       Change in plan assets     -     -     -     -       Plan participants' contributions     669     72     84       Benefits paid     (411)     (418)     (459)       Plan assets at fair value, end of year     -     -     -     -       Funded status at end of year     -     -     -     -     -       Funded status at end of year     \$ (12,521)     \$ (10,967)     \$ (10,455)     Accumulated other     -     -     -       comprehensive income     \$ (12,521)     \$ (10,967)     \$ (10,455)     Accumulated other     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -	Interest cost		496		485		496		
Plan amendments     -     -     -       Curtailment loss     -     -     -       Actuarial loss (gain)     1,158     137     (994)       Projected benefit obligation, end of year     \$     12,521     \$     10,967     \$     10,455       Change in plan assets     Plan assets at fair value, beginning of year     -     -     -     -       Actuarial tom on plan assets     - <td< td=""><td></td><td></td><td>69</td><td></td><td>72</td><td></td><td>84</td></td<>			69		72		84		
Curtailment loss       -       -       -       -         Actuarial loss (gain)       1,158       137       (994)         Benefits paid       (411)       (418)       (459)         Projected benefit obligation, end of year       \$       12,521       \$       10,967       \$       10,455         Change in plan assets       - <t< td=""><td></td><td></td><td>-</td><td></td><td>-</td><td></td><td>-</td></t<>			-		-		-		
Actuarial loss (gain)     1,158     137     (994)       Benefits paid     (411)     (418)     (459)       Projected benefit obligation, end of year     \$ 12,521     \$ 10,967     \$ 10,455       Change in plan assets     -     -     -       Plan assets at fair value, beginning of year     -     -     -       Actual return on plan assets     -     -     -       Company contributions     69     72     84       Benefits paid     (411)     (418)     (459)       Plan assets at fair value, end of year     -     -     -       Funded status at end of year     -     -     -     -       Accumulated other     -     -     -     -     -       comprehensive loss     1,815     472     149       Accumulated other     -     -     -     -     -       comprehensive loss     1,815     \$ 797     \$ 659     Prior service credit     -     -     -       Net actuarial loss     \$ 1,954     \$ 797     \$ 659     Prior service credit     -     -     -     -       N									
Benefits paid       (411)       (418)       (459)         Projected benefit obligation, end of year       \$ 12,521       \$ 10,967       \$ 10,455         Change in plan assets       -       -       -         Plan assets at fair value, beginning of year       -       -       -         Actual return on plan assets       -       -       -       -         Company contributions       342       346       375         Plan participants' contributions       69       72       84         Benefits paid       (411)       (418)       (459)         Plan assets at fair value, end of year       -       -       -         Funded status at end of year       \$ (12,521)       \$ (10,967)       \$ (10,455)         Accumulate other comprehensive loss       \$ 1,815       472       149         Amounts recognized in accumulated other comprehensive income       \$ 1,815       \$ 472       \$ 149         Net periodic benefit cost       \$ 1,815       \$ 472       \$ 149         Service cost       \$ 242       \$ 236       \$ 280         Interest cost       \$ 552       \$ 534       \$ 661         Prior service costs			1 159		137		(00/1)		
Projected benefit obligation, end of year     \$ 12,521     \$ 10,967     \$ 10,455       Change in plan assets     Plan assets at fair value, beginning of year     -     -     -       Actual return on plan assets     -     -     -     -       Company contributions     342     346     375       Plan participants' contributions     69     72     84       Benefits paid     (411)     (418)     (459)       Plan assets at fair value, end of year     -     -     -       Funded status at end of year     -     -     -     -       Funded status at end of year     \$ (12,521)     \$ (10,967)     \$ (10,455)       Amounts recognized in the balance sheets consist of:     .     .     .     .       Other postretirement liabilities     \$ (12,521)     \$ (10,967)     \$ (10,455)       Accumulated other     \$ (139)     (325)     (510)       Comprehensive income<							· · · · · · · · · · · · · · · · · · ·		
end of year       \$ 12,521       \$ 10,967       \$ 10,455         Change in plan assets       Plan assets at fair value, beginning of year       -       -       -         Actual return on plan assets       -       -       -       -       -         Company contributions       342       346       375       Plan participants' contributions       69       72       84         Benefits paid       (411)       (418)       (419)       (419)       (419)       (418)       (459)         Plan assets at fair value, end of year       - <t< td=""><td></td><td></td><td>(411)</td><td></td><td>(410)</td><td></td><td>(433)</td></t<>			(411)		(410)		(433)		
Change in plan assets     Plan assets at fair value, beginning of year     -     <		¢	10 501	¢	10.007	¢	10 455		
Plan assets at fair value,     beginning of year     -     -     -       Actual retum on plan assets     -     -     -     -       Company contributions     342     346     375       Plan participants' contributions     69     72     84       Benefits paid     (411)     (418)     (459)       Plan assets at fair value, end of year     -     -     -       Funded status at end of year     \$ (12,521)     \$ (10,967)     \$ (10,455)       Amounts recognized in the balance sheets consist of:     0     (10,455)       Accumulated other     comprehensive loss     1,815     472     149       Amounts recognized in accumulated other     comprehensive income     -     -     -       Net actuarial loss     \$ 1,954     \$ 797     \$ 659     Prior service credit     (139)     (325)     (510)       Total     \$ 1,815     \$ 472     \$ 149     S 472     \$ 149       Net periodic benefit cost     \$ 242     \$ 236     \$ 280     Interest cost     -     -     -     -     -     -     -     -     -     -     -     -	-	¢	12,921	¢	10,967	þ	10,455		
beginning of year       -       -       -         Actual return on plan assets       -       -       -         Company contributions       342       346       375         Plan participants' contributions       69       72       84         Benefits paid       (411)       (418)       (459)         Plan assets at fair value, end of year       -       -       -         Funded status at end of year       \$ (12,521)       \$ (10,967)       \$ (10,455)         Amounts recognized in the balance sheets consist of:       0       (10,455)         Accumulated other       comprehensive loss       1,815       472       149         Amounts recognized in accumulated other       comprehensive income       -       -       -         Net actuarial loss       \$ 1,954       \$ 797       \$ 659       F107       \$ 149         Interest cost       \$ 1,815       \$ 472       \$ 149       -       -         Interest cost       \$ 242       \$ 236       \$ 280       Interest cost       496       484       496         Expected return on plan assets       -       -       -       71       Total period	• •								
Actual return on plan assets     -     -     -     -       Company contributions     342     346     375       Plan participants' contributions     69     72     84       Benefits paid     (411)     (418)     (459)       Plan assets at fair value, end of year     -     -     -       Funded status at end of year     \$ (12,521)     \$ (10,967)     \$ (10,455)       Amounts recognized in the balance sheets consist of:     0     (10,455)       Accumulated other     comprehensive loss     1,815     472     149       Amounts recognized in accumulated other     comprehensive loss     1,815     472     149       Amounts recognized in accumulated other     (139)     (325)     (510)       Total     \$ 1,815     472     149       Net actuarial loss     \$ 1,815     472     149       Net periodic benefit cost     \$ 242     \$ 236     \$ 280       Interest cost     496     484     496       Expected return on plan assets     -     -     -       Amortization of:     -     -     71       Prior service cost credit									
Company contributions       342       346       375         Plan participants' contributions       69       72       84         Benefits paid       (411)       (418)       (459)         Plan assets at fair value, end of year       -       -       -         Funded status at end of year       \$ (12,521)       \$ (10,967)       \$ (10,455)         Amounts recognized in the balance sheets consist of:       Other postretirement liabilities       \$ (12,521)       \$ (10,967)       \$ (10,455)         Accumulated other       comprehensive loss       1,815       472       149         Amounts recognized in accumulated other       comprehensive income       (139)       (325)       (510)         Total       \$ 1,815       \$ 797       \$ 659       Prior service cost       \$ 242       \$ 236       \$ 280         Interest cost       \$ 242       \$ 236       \$ 280       Interest cost       \$ 242       \$ 236       \$ 280         Interest cost       \$ 242       \$ 236       \$ 280       \$ 148       496         Expected return on plan assets       -       -       -       71         Total periodic benefit cost       \$ 552			-		-		-		
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Plan assets at fair value, end of year   image: set star fair value, end of year     Funded status at end of year   \$ (12,521)   \$ (10,967)   \$ (10,455)     Amounts recognized in the balance sheets consist of: Other postretirement liabilities   \$ (12,521)   \$ (10,967)   \$ (10,455)     Accumulated other comprehensive loss   1,815   472   149     Amounts recognized in accumulated other comprehensive income   \$ 1,954   \$ 797   \$ 659     Prior service credit   (139)   (325)   (510)     Total   \$ 1,815   \$ 472   \$ 149     Net actuarial loss   \$ 1,815   \$ 472   \$ 149     Service cost   \$ 242   \$ 236   \$ 280     Interest cost   \$ 496   484   496     Expected return on plan assets   -   -     Amortization of:   -   -   -     Prior service cost credit   (186)   (186)   (186)     Net actuarial loss   -   -   -     Other changes to plan assets   -   -   -     and projected benefit obligations recognized in other comprehensive income   \$ 1,158   \$ 137   \$ (994)     Amoutization of net actuarial gain   -   -   -     Prior service costs   -   -   - </td <td>Plan participants' contributions</td> <td></td> <td>69</td> <td></td> <td>72</td> <td></td> <td>84</td>	Plan participants' contributions		69		72		84		
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Other postretirement liabilities       \$ (12,521)       \$ (10,967)       \$ (10,455)         Accumulated other       comprehensive loss       1,815       472       149         Amounts recognized in accumulated other       comprehensive income       1,815       472       149         Net accumulated other       comprehensive income       (139)       (325)       (510)         Net actuarial loss       \$ 1,954       \$ 797       \$ 659         Prior service credit       (139)       (325)       (510)         Total       \$ 1,815       \$ 472       \$ 149         Net periodic benefit cost       \$ 242       \$ 236       \$ 280         Interest cost       496       484       496         Expected return on plan assets       -       -       -         Amortization of:       -       -       71         Prio service cost credit       (186)       (186)       (186)         Net actuarial loss       -       -       71         Total periodic benefit cost       \$ 552       \$ 534       \$ 661         Other changes to plan assets       -       -       -         and projected benefit obligat	Funded status at end of year	\$	(12,521)	\$	(10,967)	\$	(10,455)		
Other postretirement liabilities       \$ (12,521)       \$ (10,967)       \$ (10,455)         Accumulated other       comprehensive loss       1,815       472       149         Amounts recognized in accumulated other       comprehensive income       1,815       472       149         Net accumulated other       comprehensive income       (139)       (325)       (510)         Net actuarial loss       \$ 1,954       \$ 797       \$ 659         Prior service credit       (139)       (325)       (510)         Total       \$ 1,815       \$ 472       \$ 149         Net periodic benefit cost       \$ 242       \$ 236       \$ 280         Interest cost       496       484       496         Expected return on plan assets       -       -       -         Amortization of:       -       -       71         Prio service cost credit       (186)       (186)       (186)         Net actuarial loss       -       -       71         Total periodic benefit cost       \$ 552       \$ 534       \$ 661         Other changes to plan assets       -       -       -         and projected benefit obligat									
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comprehensive loss       1,815       472       149         Amounts recognized in accumulated other comprehensive income       1,954       \$ 797       \$ 659         Net actuarial loss       \$ 1,954       \$ 797       \$ 659         Prior service credit       (139)       (325)       (510)         Total       \$ 1,815       \$ 472       \$ 149         Net periodic benefit cost       \$ 1,815       \$ 472       \$ 149         Service cost       \$ 242       \$ 236       \$ 280         Interest cost       \$ 246       \$ 496       484       496         Expected return on plan assets       -       -       -       -         Amotization of:       Prior service cost credit       (186)       (186)       (186)         Net actuarial loss       -       -       -       71         Total periodic benefit cost       \$ 552       \$ 534       \$ 661         Other changes to plan assets       -       -       -         and projected benefit obligations       -       -       -         recognized in other       -       -       -       -         comprehensive income	Other postretirement liabilities	\$	(12,521)	\$	(10,967)	\$	(10,455)		
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accumulated other comprehensive income         Net actuarial loss       \$ 1,954       \$ 797       \$ 659         Prior service credit       (139)       (325)       (510)         Total       \$ 1,815       \$ 472       \$ 149         Net periodic benefit cost       \$ 242       \$ 236       \$ 280         Interest cost       \$ 966       484       496         Expected return on plan assets       -       -       -         Amortization of:       -       -       -       -         Prior service cost credit       (186)       (186)       (186)       (186)         Net actuarial loss       -       -       -       -       -         Prior service cost credit       (186)       (186)       (186)       (186)       (186)         Net actuarial loss       -       -       -       71       -       71         Total periodic benefit cost       \$ 552       \$ 534       \$ 661       661         Other changes to plan assets       -       -       -       -         and projected benefit obligations       -       -       -       -	comprehensive loss		1,815		472		149		
Net actuarial loss       \$ 1,954       \$ 797       \$ 659         Prior service credit       (139)       (325)       (510)         Total       \$ 1,815       \$ 472       \$ 149         Net periodic benefit cost       \$       2422       \$ 236       \$ 280         Interest cost       496       484       496         Expected return on plan assets       -       -       -         Amortization of:       -       -       -       -         Prior service cost credit       (186)       (186)       (186)       (186)         Net actuarial loss       -       -       -       71         Total periodic benefit cost       \$ 552       \$ 534       \$ 661         Other changes to plan assets       -       -       -         and projected benefit obligations recognized in other       -       -       -         comprehensive income       -       -       -       -         Net actuarial loss (gain)       \$ 1,158       \$ 137       \$ (994)         Amortization of prior service costs       -       -       -         P	Amounts recognized in								
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Net actuarial loss       \$ 1,954       \$ 797       \$ 659         Prior service credit       (139)       (325)       (510)         Total       \$ 1,815       \$ 472       \$ 149         Net periodic benefit cost       \$ 242       \$ 236       \$ 280         Interest cost       496       484       496         Expected return on plan assets       -       -       -         Amortization of:       -       -       -       -         Prior service cost credit       (186)       (186)       (186)       (186)         Net actuarial loss       -       -       71       -       71         Total periodic benefit cost       \$ 552       \$ 534       \$ 661       0         Other changes to plan assets       -       -       71       -         Total periodic benefit obligations recognized in other       -       -       -       -         Amortization of net actuarial gain       -       -       -       -       -       -         Amortization of prior service costs       186       186       186       186       186         Termination recognition of prior	comprehensive income								
Prior service credit       (139)       (325)       (510)         Total       \$ 1,815       \$ 472       \$ 149         Net periodic benefit cost       \$ 242       \$ 236       \$ 280         Interest cost       496       484       496         Expected return on plan assets       -       -       -         Amortization of:       -       -       -       -         Prior service cost credit       (186)       (186)       (186)       (186)         Net actuarial loss       -       -       -       71         Total periodic benefit cost       \$ 552       \$ 534       \$ 661         Other changes to plan assets       -       -       -         and projected benefit obligations       -       -       -         recognized in other       -       -       -       -         comprehensive income       -       -       -       -       -         Net actuarial loss (gain)       \$ 1,158       \$ 137       \$ (994)       -       -       -         Amortization of prior service costs       -       -       -       -       -	-	\$	1.954	\$	797	\$	659		
Total     \$ 1,815     \$ 472     \$ 149       Net periodic benefit cost     \$ 242     \$ 236     \$ 280       Interest cost     496     484     496       Expected return on plan assets     -     -     -       Amortization of:     -     -     -     -       Prior service cost credit     (186)     (186)     (186)     (186)       Net actuarial loss     -     -     71     -     71       Total periodic benefit cost     \$ 552     \$ 534     \$ 661     0       Other changes to plan assets     and projected benefit obligations     -     -     -       recognized in other     -     -     -     -     -       comprehensive income     -     -     -     -     -       Net actuarial loss (gain)     \$ 1,158     \$ 137     \$ (994)       Amortization of prior service costs     -     -     -     -       Amortization of prior service costs     -     -     -     -       Interst costs     -     -     -     -     -       Amortization of prior service costs		·			(325)				
Net periodic benefit costService cost\$ 242\$ 236\$ 280Interest cost496484496Expected return on plan assetsAmortization of:Prior service cost credit(186)(186)(186)Net actuarial loss71Total periodic benefit cost\$ 552\$ 534\$ 661Other changes to plan assets71and projected benefit obligations recognized in other comprehensive income\$ 1,158\$ 137\$ (994)Amortization of net actuarial gainPrior service costsAmortization of prior service costs186186186Termination recognition of prior service costs(71)Net change\$ 1,344\$ 323\$ (879)AOCI amounts expected to be amortized in 2018 		\$	. ,	\$	. ,	\$			
Service cost       \$ 242       \$ 236       \$ 280         Interest cost       496       484       496         Expected return on plan assets       -       -       -         Amortization of:       -       -       -       -         Prior service cost credit       (186)       (186)       (186)       (186)         Net actuarial loss       -       -       71       -       71         Total periodic benefit cost       \$ 552       \$ 534       \$ 661       0ther changes to plan assets       -       -       71         and projected benefit obligations recognized in other       -       -       -       -       -         comprehensive income       -		•	.,	Ť		÷			
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Expected return on plan assets     -     -     -       Amortization of:     Prior service cost credit     (186)     (186)     (186)       Net actuarial loss     -     -     71       Total periodic benefit cost     \$ 552     \$ 534     \$ 661       Other changes to plan assets     -     -     71       and projected benefit obligations     recognized in other     -     -       comprehensive income     -     -     -       Net actuarial loss (gain)     \$ 1,158     \$ 137     \$ (994)       Amortization of net actuarial gain     -     -     -       Prior service costs     -     -     -       Amortization of prior service costs     186     186     186       Termination recognition of     -     -     -       prior service costs     -     -     -       AOCI amounts expected to be amortized in 2018     Prior service (credit) cost     \$ (139)       Net actuarial loss (gain)     92     92		Ψ		Ψ		Ψ			
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Net actuarial loss     -     -     71       Total periodic benefit cost     \$ 552     \$ 534     \$ 661       Other changes to plan assets     and projected benefit obligations     552     \$ 534     \$ 661       Other changes to plan assets     and projected benefit obligations     recognized in other     661       comprehensive income     -     -     -       Net actuarial loss (gain)     \$ 1,158     \$ 137     \$ (994)       Amortization of net actuarial gain     -     -     -       Prior service costs     -     -     -       Amortization of prior service costs     186     186     186       Termination recognition of prior service costs     -     -     -       Prior service costs     -     -     -     (71)       Net change     \$ 1,344     \$ 323     \$ (879)       AOCI amounts expected to be amortized in 2018     Prior service (credit) cost     \$ (139)       Net actuarial loss (gain)     92     92									
Total periodic benefit cost\$ 552\$ 534\$ 661Other changes to plan assets and projected benefit obligations recognized in other comprehensive income\$ 1,158\$ 137\$ (994)Net actuarial loss (gain)\$ 1,158\$ 137\$ (994)Amortization of net actuarial gainPrior service costsAmortization of prior service costs186186186Termination recognition of prior service costs(71)Net change\$ 1,344\$ 323\$ (879)AOCI amounts expected to be amortized in 2018Prior service (credit) cost\$ (139) 92Net actuarial loss (gain)			(186)		(186)		(186)		
Other changes to plan assets and projected benefit obligations recognized in other comprehensive income     -	Net actuarial loss		•		-		71		
and projected benefit obligations recognized in other comprehensive incomeNet actuarial loss (gain)\$ 1,158\$ 137\$ (994)Amortization of net actuarial gainPrior service costsAmortization of prior service costs186186186Termination recognition of prior service costsNet change\$ 1,344\$ 323\$ (879)AOCI amounts expected to be amortized in 2018Prior service (credit) cost\$ (139)-Net actuarial loss (gain)9292	Total periodic benefit cost	\$	552	\$	534	\$	661		
recognized in other comprehensive income       Net actuarial loss (gain)     \$ 1,158     \$ 137     \$ (994)       Amortization of net actuarial gain     -     -     -       Prior service costs     -     -     -       Amortization of prior service costs     186     186     186       Termination recognition of prior service costs     -     -     (71)       Net change     \$ 1,344     \$ 323     \$ (879)       AOCI amounts expected to be amortized in 2018     Prior service (credit) cost     \$ (139)       Net actuarial loss (gain)     92     92	Other changes to plan assets								
Net actuarial loss (gain)\$ 1,158\$ 137\$ (994)Amortization of net actuarial gainPrior service costsAmortization of prior service costs186186186Termination recognition of prior service costs(71)Net change\$ 1,344\$ 323\$ (879)AOCI amounts expected to be amortized in 2018 Prior service (credit) cost\$ (139) 92	and projected benefit obligations								
Net actuarial loss (gain)       \$ 1,158       \$ 137       \$ (994)         Amortization of net actuarial gain       -	recognized in other								
Net actuarial loss (gain)       \$ 1,158       \$ 137       \$ (994)         Amortization of net actuarial gain       -									
Amortization of net actuarial gain     -     -     -       Prior service costs     -     -     -       Amortization of prior service costs     186     186     186       Termination recognition of prior service costs     -     -     (71)       Net change     \$     1,344     \$     323     \$     (879)       AOCI amounts expected to be amortized in 2018     -     -     (71)       Net actuarial loss (gain)     92     92     -	-	\$	1 158	\$	137	\$	(994)		
Prior service costs   -   -     Amortization of prior service costs   186   186     Termination recognition of prior service costs   -   -     prior service costs   -   -     Net change   \$ 1,344   \$ 323   \$ (879)     AOCI amounts expected to be amortized in 2018   -   -     Prior service (credit) cost   \$ (139)   -     Net actuarial loss (gain)   92   -		Ψ	1,100	Ψ	107	Ψ	(004)		
Amortization of prior service costs   186   186   186     Termination recognition of prior service costs   -   -   (71)     Net change   \$ 1,344   \$ 323   \$ (879)     AOCI amounts expected to be amortized in 2018   -   -   (71)     Prior service (credit) cost   \$ (139)   -   -     Net actuarial loss (gain)   92   -   -			-		-		-		
Termination recognition of prior service costs     -     -     (71)       Net change     \$ 1,344     \$ 323     \$ (879)       AOCI amounts expected to be amortized in 2018     *     *     323     \$ (879)       Prior service (credit) cost     \$ (139)     * <td< td=""><td></td><td></td><td>-</td><td></td><td>-</td><td></td><td>-</td></td<>			-		-		-		
prior service costs   -   -   (71)     Net change   \$ 1,344   \$ 323   \$ (879)     AOCI amounts expected to be amortized in 2018   Prior service (credit) cost   \$ (139)     Net actuarial loss (gain)   92			100		100		100		
Net change   \$ 1,344   \$ 323   \$ (879)     AOCI amounts expected to be amortized in 2018     Prior service (credit) cost   \$ (139)     Net actuarial loss (gain)   92	•								
AOCI amounts expected to be amortized in 2018       Prior service (credit) cost     \$ (139)       Net actuarial loss (gain)     92			-		-		(71)		
Prior service (credit) cost\$ (139)Net actuarial loss (gain)92			1,344	\$	323	\$	(879)		
Net actuarial loss (gain) 92	AOCI amounts expected to be amortized	in 2018							
	Prior service (credit) cost	\$	(139)						
	Net actuarial loss (gain)		92						
	Net amount recognized	\$	(47)						

	Other	Postretirement Ben	efits
	2017	2016	2015
Weighted-average assumptions used to determine benefit obligation at year end			
Measurement date	12/31/2017	12/31/2016	12/31/2015
Discount rate	4.00%	4.60%	4.70%
Health care cost trend rate assumed for next year (pre/post-65)	7.70%/6.90%	6.75%/6.50%	7.00%/6.50%
Ultimate health care cost	1.10/0/0.50/0	0.10/0/0.00/0	1.00/0/0.00/0
trend rate	4.50%	4.50%	4 50%
Year that the rate reaches			
the ultimate trend rate	2026	2024	2025
Weighted-average assumptions			
used to determine net periodic			
cost for the year			
Measurement date	12/31/2016	12/31/2015	12/31/2014
Discount rate	4.60%	4.70%	4.55%
Expected return on plan assets	N/A	N/A	N/A
Health care cost trend rate assumed for next year			
(pre/post-65)	6.75%/6.50%	7.00%/6.50%	7.25%/6.75%
Ultimate health care cost trend rate Year that the rate reaches	4.50%	4.50%	5.00%
the ultimate trend rate	2024	2023	2024

## Effect of Change in Assumed Health Care Cost Trend Rates

Effect on total service cost and interes	st cost components	3
One-percentage-point increase		\$ 165
One-percentage-point decrease		(128)
Effect on year-end postretirement ben	efit obligation	
One-percentage-point increase		2,330
One-percentage-point decrease		(1,846)
Expected Future Cash Flow Inf	ormation	
Expected Benefit Payments		
Fiscal 2018	\$	397
Fiscal 2019		436
Fiscal 2020		477
Fiscal 2021		516
Fiscal 2022		543
Fiscal 2023 - 2027		3,033
Expected Contributions		

The bank's plan for other postretirement benefits does not have plan assets.

\$

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Fiscal 2018

## Note 11 — Related Party Transactions

As discussed in Note 1, "Organization and Operations," the bank lends funds to the district associations to fund their loan portfolios. Interest income recognized on direct notes receivable from district associations was \$269,064, \$240,132 and \$213,802 for 2017, 2016 and 2015, respectively. Further disclosure regarding these related party transactions is found in Note 4, "Loans and Reserves for Credit Losses," and Note 9, "Shareholders' Equity."

In addition to providing loan funds to district associations, the bank also provides banking and support services to them, such as accounting, information systems, marketing and other services. Income derived by the bank from these activities was \$3,889, \$4,355 and \$4,150 for 2017, 2016 and 2015, respectively, and was included in the bank's noninterest income.

The bank had no transactions with nor loans to directors or senior officers, their immediate family members, or any organizations with which such senior officers or directors are affiliated, during 2017, 2016 and 2015.

## Note 12 — Commitments and Contingencies

The district has various outstanding commitments and contingent liabilities as discussed elsewhere in these notes.

The bank is primarily liable for its portion of Systemwide debt obligations. Additionally, the bank is jointly and severally liable for the consolidated Systemwide bonds and notes of other System banks. The total bank and consolidated Systemwide debt obligations of the System at December 31, 2017, were approximately \$265.17 billion.

In the normal course of business, the bank incurs a certain amount of claims, litigation, and other legal and administrative proceedings, all of which are considered incidental to the normal conduct of business. The bank believes it has meritorious defenses to the claims currently asserted against it, and, with respect to such legal proceedings, intends to defend itself vigorously, litigating or settling cases according to management's judgment as to what is in the best interest of the bank and its shareholders.

On at least a quarterly basis, the bank assesses its liabilities and contingencies in connection with outstanding legal proceedings utilizing the latest information available. For those matters where it is probable that the bank would incur a loss and the amount of the loss could be reasonably estimated, the bank would record a liability in its financial statements. These liabilities would be increased or decreased to reflect any relevant developments on a quarterly basis. For other matters, where a loss is not probable or the amount of the loss is not estimable, the bank does not record a liability.

Currently, other actions are pending against the bank in which claims for monetary damages are asserted. Upon the basis of current information, management and legal counsel are of the opinion that any resulting losses are not probable, and that the ultimate liability, if any, resulting from a lawsuit and other pending actions will not be material in relation to the financial position, results of operations or cash flows of the bank.

## Note 13 — Financial Instruments With Off-Balance-Sheet Risk

The bank may participate in financial instruments with off-balancesheet risk to satisfy the financing needs of its borrowers and to manage its exposure to interest-rate risk. These financial instruments include commitments to extend credit and commercial letters of credit. 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. At December 31, 2017, the bank had \$2.69 billion of commitments to extend credit and \$78,480 of letters of credit were outstanding.

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 credit-related financial instruments have off-balance-sheet credit risk because their amounts are not reflected on the balance sheet until funded or drawn upon.

The bank also participates in letters of credit to satisfy the financing needs of their borrowers. These letters of credit are irrevocable agreements to guarantee payments of specified financial obligations. Letters of credit are recorded, at fair value, on the balance sheet by the bank. At December 31, 2017, \$78,480 of letters of credit with a fair value of \$846 was included in other liabilities. Outstanding letters of credit generally have expiration dates ranging from 2018 to 2027.

The credit risk involved in issuing commitments and letters of credit is essentially the same as that involved in extending loans to customers, and the same credit policies are applied by management. In the event of funding, the credit risk amounts are equal to the contract amounts, assuming that counterparties fail completely to meet their obligations and the collateral or other security 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 counterparty. At December 31, 2017, 2016 and 2015, the bank had a reserve for losses on letters of credit and unfunded commitments of \$1,433, \$1,646 and \$1,342, respectively, representing management's estimate of probable credit losses related to letters of credit and unfunded commitments.

#### Note 14 — Fair Value Measurements

Authoritative accounting 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. See Note 2, "Summary of Significant Accounting Policies," for additional information and "Valuation Techniques" at the end of this note.

Assets and liabilities measured at fair value on a recurring basis at December 31, 2017, for each of the fair value hierarchy values are summarized below:

	Fair Value Mea	surement		
		Quoted Prices in		Significant
		Active Markets for	Significant Other	Unobservable
		Identical Assets	Observable Inputs	Inputs
	Total	(Level 1)	(Level 2)	(Level 3)
Assets:				
Federal funds	\$ 246,888	\$-	\$ 246,888	\$-
Investments available-for-sale				
Corporate debt	252,609	-	252,609	-
U.S. Treasury securities	249,207	-	249,207	-
Agency-guaranteed debt	195,248	-	195,248	-
Mortgage-backed securities	4,356,715	-	4,356,715	-
Asset-backed securities	47,889	-	47,889	-
Mission-related investments	43,317	-	-	43,317
Loans valued under the fair value option	9,908	-	9,908	-
Derivative assets	8,932	-	8,932	-
Assets held in nonqualified benefit trusts	551	551	-	-
Total assets	\$ 5,411,264	\$ 551	\$ 5,367,396	\$ 43,317
Liabilities:				
Letters of credit	\$ 846	\$-	\$-	\$ 846
Derivative liabilities	248	-	248	-
Total liabilities	\$ 1,094	\$-	\$ 248	\$ 846

The table below represents a reconciliation of all Level 3 assets and liabilities measured at fair value on a recurring basis for the year ended December 31, 2017:

	Asse	ets	ties			
	Agrie	cultural				
	Moi	rtgage-				
	Ba	icked	Letters	s of		
	Sec	urities	Credit		Total	
Balance at January 1, 2017	\$	53,335	\$	594	\$	52,741
Net (losses) gains in earnings		(106)		-		(106)
Purchases, issuances and settlements		(9,912)		252		(10,164)
Balance at December 31, 2017	\$	43,317	\$	846	\$	42,471

There were no transfers of assets or liabilities into or out of Level 1 from other levels during the year ended December 31, 2017. Agricultural mortgage-backed securities are included in Level 3 due to limited activity or less transparency around inputs to their valuation. The liability for letters of credit is included in Level 3 because their valuation, based on fees currently charged for similar agreements, may not closely correlate to a fair value for instruments that are not regularly traded in the secondary market. Assets and liabilities measured at fair value on a nonrecurring basis at December 31, 2017 for each of the fair value hierarchy values are summarized below:

	Fair V	alue Meas	urement					
		Quoted F in Acti Markets Identical /	ve s for Assets	Signifi Oth Observ Inpu	Significant Unobservable Inputs (Level 3)			
	otal	(Level	1)	(Level 2)				
Assets:								
Loans	\$ 119	\$	-	\$			\$	119
Total assets	\$ 119	\$	-	\$			\$	119

Assets and liabilities measured at fair value on a recurring basis at December 31, 2016, for each of the fair value hierarchy values are summarized below:

	Fair Value Meas	surement					
			oted Prices in				ignificant
			e Markets for	•	ficant Other	Unobservable	
			ntical Assets		vable Inputs		Inputs
	 Total		(Level 1)	(l	Level 2)	(Level 3)	
Assets:							
Federal funds	\$ 22,901	\$	-	\$	22,901	\$	-
Investments available-for-sale							
Corporate debt	202,403		-		202,403		-
U.S. Treasury securities	249,006		-		249,006		-
Agency-guaranteed debt	222,374		-		222,374		-
Mortgage-backed securities	3,973,578		-		3,973,578		-
Asset-backed securities	130,679		-		130,679		-
Mission-related and other available-for-sale investments	53,335		-		-		53,335
Loans valued under the fair value option	16,311		-		16,311		-
Derivative assets	8,074		-		8,074		-
Assets held in nonqualified benefit trusts	405		405		-		-
Total assets	\$ 4,879,066	\$	405	\$	4,825,326	\$	53,335
Liabilities:							
Letters of credit	\$ 594	\$	-	\$	-	\$	594
Total liabilities	\$ 594	\$	-	\$	-	\$	594

The table below represents a reconciliation of all Level 3 assets and liabilities measured at fair value on a recurring basis for the year ended December 31, 2016:

			As	sets			Lial	bilities		
			Ag	ricultural						
	Mo	ortgage-	Μ	ortgage-						
	В	Backed	E	Backed	Loa	an Held	Lett	ters of		
			Se	ecurities	curities for Sale		Credit		Total	
Balance at January 1, 2016	\$	50,250	\$	65,650	\$	4,850	\$	807	\$	119,943
Net (losses) gains in earnings		-		(522)		-		-		(522)
Purchases, issuances and settlements		-		(11,793)		(4,850)		(213)		(16,430)
Transfers into Level 3		(50,250)		-		-		-		(50,250)
Balance at December 31, 2016	\$	-	\$	53,335	\$		\$	594	\$	52,741

There were no transfers of assets or liabilities into or out of Level 1 from other levels during the year ended December 31, 2016. Agricultural mortgage-backed securities are included in Level 3 due to limited activity or less transparency around inputs to their valuation. At December 31, 2016, there were no agency MBS investments in Level 1. The liability for letters of credit is included in Level 3 because their valuation, based on fees currently charged for similar agreements, may not closely correlate to a fair value for instruments that are not regularly traded in the secondary market.

Assets and liabilities measured at fair value on a nonrecurring basis at December 31, 2016, for each of the fair value hierarchy values are summarized below:

	Fair Value Measurement at December 31, 2016											
			Quote	d Price	Signit	ficant						
			in A	ctive	ner	Sigr	nificant					
			Mark	ets for	e Unobservable							
			Identica	al Assets	In	puts						
Assets:	Т	otal	(Lev	(Level 1)		el 2)	(Level 3)					
Loans	\$	132	\$	-	\$	-	\$	132				
Total assets	\$	132	\$	-	\$	-	\$	132				

The bank revised fair value measurements for the reporting of certain loans measured at fair value on a nonrecurring basis using Level 3 at December 31, 2016 and 2015. The disclosure was revised to report impaired loans with specific reserves only. The Level 3 fair value was disclosed at \$2,785 in the 2016 Annual Report, for the December 31, 2016 disclosure, and has been revised to \$132. The Level 3 fair value was disclosed at \$4,597 for the December 31, 2015 disclosure, and has been revised to \$144.

Management has evaluated the impact of these errors and concluded that the amounts are immaterial to previously issued financial statements; however, it has elected to revise the reporting of certain loans measured at fair value on a nonrecurring basis in order to correctly present such amounts. The correction had no effect on the balance sheet, the statement of comprehensive income, earnings or the financial ratios. Assets and liabilities measured at fair value on a recurring basis at December 31, 2015, for each of the fair value hierarchy values are summarized below:

		Fair Value Mea	asurement					
			Quoted P		Cignifia	ant Other	-	nificant
			Active Ma		•	ant Other ble Inputs		servable
Assets:		Total	Identical Assets (Level 1)			vel 2)	Inputs (Level 3)	
Federal funds	\$ 22,413 \$ -		-	\$	22,413	\$		
Investments available-for-sale		,						
Corporate debt		200,602		-		200,602		-
Agency-guaranteed debt		248,355		-		248,355		-
Mortgage-backed securities		3,730,425		-		3,680,175		50,250
Asset-backed securities		200,073		-		200,073		-
Mission-related and other available-for-sale investments		65,650		-		-		65,650
Loans valued under the fair value option		27,506		-		27,506		-
Loans held for sale in other assets		4,850		-		-		4,850
Derivative assets		504		-		504		-
Assets held in nonqualified benefit trusts		347		347		-		-
Total assets	\$	4,500,725	\$	347	\$	4,379,628	\$	120,750
Liabilities:								
Letters of credit	\$	807	\$	-	\$	-	\$	807
Total liabilities	\$	807	\$	-	\$	-	\$	807

The table below represents a reconciliation of all Level 3 assets and liabilities measured at fair value on a recurring basis for the year ended December 31, 2015:

		Assets		Liabilities	
		Agricultural			
	Mortgage-	Mortgage-			
	Backed	Backed	Loans Held	Letters of	
	Securities	Securities	for Sale	Credit	Total
Balance at January 1, 2015	\$ 7	\$ 80,583	\$ -	\$ 797	\$ 79,793
Net (losses) gains included in other comprehensive loss	(171)	338	-	-	167
Purchases, issuances and settlements	50,414	(15,271)	-	10	35,133
Transfers into Level 3		-	4,850		4,850
Balance at December 31, 2015	\$ 50,250	\$ 65,650	\$ 4,850	\$ 807	\$ 119,943

There were no transfers of assets or liabilities into or out of Level 1 from other levels during the year ended December 31, 2015. Agricultural mortgage-backed securities are included in Level 3 due to limited activity or less transparency around inputs to their valuation. At December 31, 2015, Level 3 investments included one agency MBS and one loan held for sale due to the fact that their valuations were based on Level 3 criteria (broker quotes). The liability for letters of credit is included in Level 3 because their valuation, based on fees currently charged for similar agreements, may not closely correlate to a fair value for instruments that are not regularly traded in the secondary market. Assets and liabilities measured at fair value on a nonrecurring basis at December 31, 2015, for each of the fair value hierarchy values are summarized below:

Fa	ir Valu	ie Measi	urement a	at Decemb	oer 31,	2015		
	1	otal	in A Mark Identica	d Price ctive ets for Il Assets vel 1)	Signif Ott Obser Inpl (Leve	ner vable uts	Unob: In	iificant servable puts vel 3)
Assets: Loans Other property owned Total assets	\$	144 487 631	\$\$	-	\$	-	\$	144 487 631

Financial assets and financial liabilities measured at carrying amounts and not measured at fair value on the Balance Sheet for each of the fair value hierarchy values are summarized as follows:

				December	31, 2017						
			Fair	Value Measu	irements Usi	ng					
	 Quoted Prices in Significant										
	Total Active Markets for Significant Othe			Other	Un	observable		Total			
	Carrying	Identi	cal Assets	Observable	Inputs		Inputs		Fair		
	 Amount	(1	.evel 1)	(Level	2)		(Level 3) Value				
Assets:											
Cash	\$ 56,183	\$	56,183	\$	-	\$	-	\$	56,183		
Net loans	 17,077,538		-		-		16,994,401		16,994,401		
Total assets	\$ 17,133,721	\$	56,183	\$	-	\$	16,994,401	\$	17,050,584		
Liabilities:											
Systemwide debt securities	\$ 20,951,223		-		-	\$	20,902,279	\$	20,902,279		
Total liabilities	\$ 20,951,223	\$	-	\$	-	\$	20,902,279	\$	20,902,279		

				December 31	, 2016				
			Fair	/alue Measure	ments Usin	g			
		Quote	d Prices in			ç	Significant		
	Total	Total Active Markets for Significant Other				Ur	nobservable		Total
	Carrying				Inputs		Inputs		Fair
	Amount				2)		(Level 3)	Value	
Assets:									
Cash	\$ 195,479	\$	195,479	\$	-	\$	-	\$	195,479
Net loans	15,882,657		-		-		15,796,675		15,796,675
Total assets	\$ 16,078,136	\$	195,479	\$	-	\$	15,796,675	\$	15,992,154
Liabilities:									
Systemwide debt securities	\$ 19,390,662	\$	-	\$	-	\$	19,384,908	\$	19,384,908
Total liabilities	\$ 19,390,662	\$	-	\$	-	\$	19,384,908	\$	19,384,908

				December 3	81, 2015				
			Fair V	'alue Measu	rements Using	]			
		Quote	d Prices in			ç	Significant		
	Total Active Markets for Significan			int Other	U	nobservable		Total	
	Carrying				ole Inputs		Inputs		Fair
	Amount				el 2)		(Level 3)	Value	
Assets:									
Cash	\$ 545,090	\$	545,090	\$	-	\$	-	\$	545,090
Net loans	14,733,070		-		-		14,676,805		14,676,805
Total assets	\$ 15,278,160	\$	545,090	\$	-	\$	14,676,805	\$	15,221,895
Liabilities:									
Systemwide debt securities	\$ 18,206,726	\$	-	\$	-	\$	18,265,040	\$	18,265,040
Subordinated debt	49,801		-		-		52,972		52,972
Total liabilities	\$ 18,256,527	\$	-	\$	-	\$	18,318,012	\$	18,318,012

## VALUATION TECHNIQUES

As more fully discussed in Note 2, "Summary of Significant Accounting Policies," authoritative accounting guidance 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. Fair values of financial instruments represent the estimated amount to be received to sell an asset or paid to transfer or extinguish a liability in active markets among willing participants at the reporting date. Due to the uncertainty of expected cash flows resulting from financial instruments, the use of different assumptions and valuation methodologies could significantly affect the estimated fair value amounts. Accordingly, certain of the estimated fair values may not be indicative of the amounts for which the financial instruments could be exchanged in a current or future market transaction. The following represent a brief summary of the valuation techniques used by the bank for assets and liabilities:

#### Cash

For cash, the carrying amount is a reasonable estimate of fair value.

#### Investment Securities

Where quoted prices are available in an active market, available-forsale securities would be classified as Level 1. If quoted prices are not available in an active market, the fair value of securities is estimated using pricing models that utilize observable inputs, quoted prices for similar securities received from pricing services or discounted cash flows. Generally, these securities would be classified as Level 2. Among other securities, this would include certain mortgage-backed securities and asset-backed securities. Where there is limited activity or less transparency around inputs to the valuation, the securities are classified as Level 3. Level 3 assets at December 31, 2017, included the bank's AMBS portfolio, which is valued by the bank using a model that incorporates underlying rates and current yield curves.

As permitted under Farm Credit Administration regulations, the banks are authorized to hold eligible investments. The regulations define eligible investments by specifying credit rating criteria, final maturity limit and percentage of portfolio limit for each investment type. At the time of purchase, mortgage-backed and asset-backed securities must be triple-A rated by at least one Nationally Recognized Statistical Rating Organization. The triple-A rating requirement puts the banks in a position to hold the senior tranches of securitizations. The underlying loans for mortgage-backed securities are residential mortgages, while the underlying loans for asset-backed securities are home equity lines of credit, small business loans, equipment loans, auto loans or student loans.

To estimate the fair value of the majority of the investments held, including certain non-agency securities, the bank obtains prices from third-party pricing services.

#### Assets Held in Nonqualified Benefits Trusts

Assets held in trust funds related to deferred compensation and supplemental retirement plans are classified within Level 1. The trust funds include investments that are actively traded and have quoted net asset values that are observable in the marketplace.

#### Derivatives

Exchange-traded derivatives valued using quoted prices would be classified within Level 1 of the valuation hierarchy. However, few classes of derivative contracts are listed on an exchange; thus, the majority of the derivative positions are valued using internally developed models that use as their basis readily observable market parameters and are classified within Level 2 of the valuation hierarchy. Such derivatives include interest rate caps and interest rate swaps.

The models used to determine the fair value of derivative assets and liabilities use an income approach based on observable market inputs, primarily the LIBOR swap curve and volatility assumptions about future interest rate movements.

#### Letters of Credit

The fair value of letters of credit approximates the fees currently charged for similar agreements or the estimated cost to terminate or otherwise settle similar obligations.

#### Loans

Fair value is estimated by discounting the expected future cash flows using the banks' and/or the associations' current interest rates at which similar loans would be made to borrowers with similar credit risk. The discount rates are based on the banks' and/or the associations' current loan origination rates as well as management's estimates of credit risk. Management has no basis to determine whether the fair values presented would be indicative of the value negotiated in an actual sale and could be less. For purposes of estimating fair value of accruing loans, the loan portfolio is segregated into pools of loans with homogeneous characteristics. Expected future cash flows, primarily based on contractual terms, and interest rates reflecting appropriate credit risk are separately determined for each individual pool.

The fair value of loans in nonaccrual status that are current as to principal and interest is estimated as described above, with appropriately higher interest rates which reflect the uncertainty of continued cash flows. For collateral-dependent impaired loans, it is assumed that collection will result only from the disposition of the underlying collateral.

## Loans Evaluated for Impairment

For certain loans evaluated for impairment under accounting impairment guidance, the fair value is based upon the underlying collateral since the loans are collateral-dependent loans for which real estate is the collateral. 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. As a result, these fair value measurements fall within Level 3 of the hierarchy. When the value of the real estate, less estimated costs to sell, is less than the principal balance of the loan, a specific reserve is established.

The bank has elected the fair value option for certain callable loans purchased on the secondary market at a significant premium. The fair value option provides an irrevocable option to elect fair value as an alternative measurement for selected financial assets. Fair value is used for both the initial and subsequent measurement of the designated instrument, with the changes in fair value recognized in net income. The fair value of securities is estimated using pricing models that utilize observable inputs, quoted prices for similar securities received from pricing services or discounted cash flows. Accordingly, these assets are classified within Level 2.

#### Bonds and Notes

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 yieldspread relationship between System debt instruments and Treasury securities. We estimate an appropriate yield-spread taking into consideration selling group member (banks and securities dealers) yield indications, observed new government-sponsored enterprise debt security pricing and pricing levels in the related U.S. dollar interest rate swap market.

## Subordinated Debt

The fair value of subordinated debt was estimated using discounted cash flows. Generally, the instrument would be classified as Level 2; however, due to limited activity and less transparency around inputs to the valuation, the securities were classified as Level 3.

## Other Property Owned

OPO is generally classified as Level 3. The process for measuring the fair value of OPO involves the use of appraisals or other marketbased information. Costs to sell represent transaction costs and are not included as a component of the asset's fair value.

#### Sensitivity to Changes in Significant Unobservable Inputs

For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, the significant unobservable inputs used in the fair value measurement of the mortgage-backed securities are prepayment rates, probability of default and loss severity in the event of default. Significant increases (decreases) in any of those inputs in isolation would result in a significantly lower (higher) fair value measurement.

Generally, a change in the assumption used for the probability of default is accompanied by a directionally similar change in the assumption used for the loss severity and a directionally opposite change in the assumption used for prepayment rates.

Quoted market prices may not be available for the instruments presented below. Accordingly, fair values are based on internal models that consider 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.

#### Information About Recurring and Nonrecurring Level 3 Fair Value Measurements

	Valuation Technique(s)	Unobservable Input	Range of Inputs
Mission-related investments	Discounted cash flow	Prepayment rates	2.1%-41.6%

Loans held for sale Vendor priced

With regard to impaired loans and OPO, it is not practicable to provide specific information on inputs as each collateral property is unique. System institutions utilize appraisals to value these loans and OPO and take into account unobservable inputs such as income and expense, comparable sales, replacement cost and comparability adjustments.

#### *Information About Recurring and Nonrecurring Level 2 Fair Value Measurements*

	Valuation Technique(s)	Input
Federal funds sold	Carrying value	Par/principal
Investment securities available for sale	Quoted prices Discounted cash flow	Price for similar security Constant prepayment rate Appropriate interest rate yield curve
Loans held under the fair value option	Quoted prices Discounted cash flow	Price for similar security Constant prepayment rate Appropriate interest rate yield curve
Interest rate caps	Discounted cash flow	Appropriate interest rate yield curve Annualized volatility
Interest rate swaps	Discounted cash flow	Benchmark yield curve Counterparty credit risk Volatility

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

	Valuation Technique(s)	Input
Cash	Carrying value	Actual balance
Loans	Discounted cash flow	Prepayment forecasts Appropriate interest rate yield curve Probability of default Loss severity
Systemwide debt securities	Discounted cash flow	Benchmark yield curve Derived yield spread Own credit risk

## Note 15 — Derivative Instruments and Hedging Activity

The bank maintains an overall interest rate risk-management strategy that incorporates the use of derivative instruments to minimize significant unplanned fluctuations in earnings that are caused by interest rate volatility. The bank's goal is to manage interest rate sensitivity by modifying the repricing or maturity characteristics of certain balance sheet liabilities so that the net interest margin is not adversely affected by movements in interest rates. The bank considers its strategic use of derivatives to be a prudent method of managing interest rate sensitivity, as it prevents earnings from being exposed to undue risk posed by changes in interest rates.

The bank may enter into derivative transactions to lower funding costs, diversify sources of funding, alter interest rate exposures arising from mismatches between assets and liabilities or better manage liquidity. Interest rate swaps allow the bank to raise long-term borrowings at fixed rates and swap them into floating rates to better match the repricing characteristics of earning assets. Under interest rate swap arrangements, the bank agrees with other parties to exchange, at specified intervals, payment streams calculated on a specified notional principal amount, with at least one stream based on a specified floating-rate index. The bank may purchase interest rate options, such as caps, in order to reduce the impact of rising interest rates on its floating-rate debt.

The bank has interest rate caps and pay fixed interest rate swaps in order to reduce the impact of rising interest rates on its floatingrate assets. At December 31, 2017, the bank held interest rate caps with a notional amount of \$195,000 and a fair value of \$396, and pay fixed interest rate swaps with a notional amount of \$250,000 and a fair value of \$8,288. The primary types of derivative instruments used and the amount of activity (notional amount of derivatives) during the year ended December 31, 2017, is summarized in the following table:

	Pa	Total		
Balance at				
January 1, 2017	\$	200,000	\$ 170,000	\$ 370,000
Additions		50,000	75,000	125,000
Maturities/Amortizations		-	(50,000)	(50,000)
Balance at				· · ·
December 31, 2017	\$	250,000	\$ 195,000	\$ 445,000

By using derivative instruments, the bank exposes itself to credit and market risk. If a counterparty fails to fulfill its performance obligations under a derivative contract, the bank's credit risk will equal the fair value gain of 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 maintains collateral agreements to limit exposure to agreed upon thresholds; the bank deals with counterparties that have an investment grade or better 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. At December 31, 2017, the bank had credit exposure to counterparties totaling \$8,684, as compared with \$8,074 at December 31, 2016 and \$500 at December 31, 2015.

The credit exposure represents the exposure to credit loss on derivative instruments, which is estimated by calculating the cost, on a present value basis, to replace all outstanding derivative contracts in a gain position.

The table below presents the credit ratings of counterparties to whom the bank has credit exposure at December 31, 2017:

		Remai	ning Years	s to Maturi	ty		Maturity						Exposure		
	Less Tha	an One	More	Than			Distrib	oution			Colla	teral	Ne	et of	
	to Five `	Years	Five \	Years	To	tal	Netti	ng	Exp	osure	He	ld	Colla	ateral	
Moody's Credit Rating															
A1	\$	-	\$	24	\$	24	\$	-	\$	24	\$	-	\$	24	
Aa2		1		-		1		-		1		-		1	
Aa3		3		8,656		8,659		-		8,659		-		8,659	

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

#### Fair Values of Derivative Instruments:

The following table represents the fair value of derivative instruments as of December 31, 2017, 2016 and 2015:

Da	alance Sheet Fa	air Value	Fair Value	Fair Value	Balance Sheet	Fair Value	Fair Value	Fair Value
	Location	2017	2016	2015	Location	2017	2016	2015
	er assets \$	396 8.536	\$ 414 7.660	\$ 504	Other liabilities Other liabilities	\$- (248)	\$-	\$ -

The following table sets forth the amount of gain (loss) recognized in Other Comprehensive Income (OCI) for the years ended December 31, 2017, 2016 and 2015:

	Ga	in (Loss) Re	cogniz	ed in OCI on I	Deriva	tives		An	nount of G	ain Rec	lassified Fr	om AC	)CI
(Effective Portion) at December 31,								Into In	come (Effe	ctive F	Portion) at D	eceml	ber 31,
		2017		2016		2015		2017		2016		2015	
Interest rate caps	\$	(553)	\$	(89)	\$	(586)	Interest expense	\$	192	\$	1,089	\$	1,374
Pay fixed swaps		(113)		6,596		-	Interest expense		779		732		-

The table below provides information about derivative financial instruments and other financial instruments that are sensitive to changes in interest rates, including debt obligations and interest rate swaps. The debt information below presents the principal cash flows and related weighted average interest rates by expected maturity dates. The derivative information below represents the notional amounts and weighted average interest rates by expected maturity dates.

			Matur	aturities of 2017 Derivative Products and Other Financial Instruments												
December 31, 2017											Sub	sequent			F	air
(dollars in thousands)	2018		2019		20	020	202	1	20	)22	Y	ears	T	otal	Va	alue
Total Systemwide debt obligations:																
Fixed rate	\$ 5,093	,000	\$ 2,47	5,786	\$ 2	,246,463	\$ 1,7	11,009	\$1	,578,671	\$ 3	3,241,515	\$1	6,346,444	\$16	,295,512
Weighted average interest rate	1.	16%	1	.35%		1.58%		1.94%		1.98%		2.71%		1.72%		
Variable rate	\$ 2,579	,935	\$ 1,97	4,855	\$	49,988	\$	-	\$	-	\$	-	\$	4,604,778	\$4	,606,766
Weighted average interest rate	1.	37%	1	.42%		1.26%		-		-		-		1.39%		
Total Systemwide debt obligations:	\$ 7,672	,935	\$ 4,45	0,641	\$2	,296,451	\$ 1,7	11,009	\$1	,578,671	\$ 3	3,241,515	\$2	0,951,222	\$ 20	,902,278
Weighted average interest rate	1.	23%	1	.38%		1.57%		1.94%		1.98%		2.71%		1.65%		
Derivative instruments:																
Interest rate caps																
Notional value	\$	-	\$	-	\$	50,000	\$	-	\$	30,000	\$	115,000	\$	195,000	\$	396
Weighted average receive rate		-		-		-		-				-		-		
Weighted average pay rate		-		-		-		-				-		-		
Pay fixed swaps																
Notional value	\$	-	\$	-	\$	-	\$	-	\$	-	\$	250,000	\$	250,000	\$	8,288
Weighted average receive rate		-		-		-		-		-		1.49%		1.49%		
Weighted average pay rate		-		-		-		-		-		1.54%		1.54%		

# Note 16 — Selected Quarterly Financial Information (Unaudited)

Quarterly results of operations are shown below for the years ended December 31:

	2017										
-	F	irst	Second	1	hird	Fourth	Total				
Net interest income	\$	61,737	\$ 62,673	\$	63,527	\$ 63,384	\$ 251,321				
Negative											
provision for credit losses		(944)	(114)		(29)	(586)	(1,673)				
Noninterest expense											
(income), net		15,909	17,227		10,696	13,176	57,008				
Net income	\$	46,772	\$ 45,560	\$	52,860	\$ 50,794	\$ 195,986				
				20	16						
-	F	irst	Second	1	'hird	Fourth	Total				
Net interest income	\$	56,933	\$ 58,184	\$	59,538	\$ 63,666	\$238,321				
Provision for credit losses		693	799		(1,104)	175	563				
Noninterest expense											
(income), net		14,130	11,293		16,449	3,480	45,352				
Net income	\$	42,110	\$ 46,092	\$	44,193	\$ 60,011	\$192,406				
				20	15						
	F	irst	Second	1	hird	Fourth	Total				
Net interest income	\$	56,701	\$ 58,268	0,	56,188	\$ 61,311	\$232,468				
Negative provision for credit losses		871	(2,538)		93	(932)	(2,506)				
Noninterest expense											
(income), net		3,729	13,641		10,415	14,950	42,735				
Net income	\$	52,101	\$ 47,165	9	\$ 45,680	\$ 47,293	\$192.239				

## Note 17 — Combined Association Financial Data (Unaudited)

Condensed financial information for the combined district associations follows. All significant transactions and balances between the associations are eliminated in combination. The multiemployer structure of certain of the district's retirement and benefit plans results in the recording of these plans only in the district's combined financial statements.

	Year Ended December 31,								
Balance Sheet Data	2	017	20	016		2015			
Cash	\$	10,829	\$	11,750	\$	5,762			
Investment securities		18,827		25,693		30,213			
Loans	1	8,203,989		17,098,664		15,985,054			
Less allowance for loan losses		75,252		74,087		64,517			
Net loans	1	8,128,737		17,024,577		15,920,537			
Accrued interest receivable		168,982		152,749		137,950			
Other property owned		15,569		19,354		18,306			
Other assets		467,437		448,656		400,359			
Total assets	\$ 1	18,810,381	\$	17,682,779	\$	16,513,127			
=									
Notes payable	\$ 1	15,412,968	\$	14,427,545	\$	13,420,186			
Other liabilities		361,074		361,535		336,638			
Total liabilities	1	15,774,042		14,789,080		13,756,824			
Capital stock and									
participation certificates		85,004		63,277		61,356			
Additional paid-in-capital		224,625		224,625		224,625			
Retained earnings		2,737,249		2,610,251		2,473,964			
Accumulated other									
comprehensive loss		(10,539)		(4,454)		(3,642)			
Total shareholders' equity		3,036,339		2,893,699		2,756,303			
Total liabilities and									
shareholders' equity	\$ 1	18,810,381	\$	17,682,779	\$	16,513,127			
		١	/ear End	ed Decembe	r 31,				

	Year Ended December 31,								
Income Statement	2017	2016	2	2015					
Interest income	\$ 856,951	\$ 773,894	\$	710,829					
Interest expense	336,073	282,455		241,469					
Net interest income	520,878	491,439		469,360					
Provision for loan losses	6,360	10,929		8,159					
Net interest income after									
provision for loan losses	514,518	480,510		461,201					
Noninterest income	98,968	93,413		85,911					
Noninterest expense	279,890	248,057		233,915					
Provision for income (benefit from)									
taxes	482	91		(75)					
Net income	\$ 333,114	\$ 325,775	\$	313,272					
Other comprehensive (loss)									
income	(6,085)	(812)		6,271					
Comprehensive income	\$ 327,029	\$ 324,963	\$	319,543					

## Note 18 — Subsequent Events

The bank has evaluated subsequent events through March 1, 2018, which is the date the financial statements were issued. There are no other significant subsequent events requiring disclosure as of March 1, 2018.



## Disclosure Information and Index

DISCLOSURES REQUIRED BY FARM CREDIT ADMINISTRATION REGULATIONS

## DESCRIPTION OF BUSINESS

The Farm Credit Bank of Texas (FCBT or bank), Agricultural Credit Associations (ACAs) and a Federal Land Credit Association (FLCA), collectively referred to as the district, are member-owned cooperatives which provide credit and credit-related services to or for the benefit of eligible borrower-shareholders for qualified agricultural purposes in the states of Alabama, Louisiana, Mississippi, New Mexico and Texas. The district's ACA parent associations, which each contain whollyowned FLCA and Production Credit Association (PCA) subsidiaries, and the FLCA are collectively referred to as associations. A further description of territory served, persons eligible to borrow, types of lending activities engaged in, financial services offered and related Farm Credit organizations required to be disclosed in this section are incorporated herein by reference to Note 1, "Organization and Operations," to the accompanying financial statements.

The description of significant developments that had or could have a material impact on results of operations or interest rates to borrowers, acquisitions or dispositions of material assets, material changes in the manner of conducting business, seasonal characteristics and concentrations of assets, if any, required to be disclosed in this section are incorporated herein by reference to "Management's Discussion and Analysis" of the bank included in this annual report to shareholders.

## Board of Directors and Senior Officers

FCBT is governed by a seven-member board of directors. Five directors are farmers or ranchers, who are elected by the customers of the 14 associations that own the bank. Two directors, who are not stockholders of any of the associations, are appointed by the elected board members. The board of directors is responsible for directing the operations of the bank. The bank's senior officers, through the bank's chief executive officer, are accountable to the board of directors and work with the board of directors to set the bank's direction, goals and strategies.

The following represents certain information regarding the board of directors and senior officers of the bank as of December 31, 2017, including business experience during the past five years:

## DIRECTORS

James F. "Jimmy" Dodson, 64, chairman of the board of directors, is from Robstown, Texas. He grows cotton, corn, wheat and milo on four family farm operations and owns a seed sales business. Mr. Dodson serves on the bank's audit and compensation committees and was chairman of the Tenth District Farm Credit Council for 2016. In January 2017, he was elected vice chairman of the Tenth District Farm Credit Council. He is one of the board's designated financial experts on the board audit committee for the bank. He also is vice chairman of the national Farm Credit Council Board of Directors. Mr. Dodson joined the board of directors of FCC Services, an integrated services firm, in January 2017. He is also president of Dodson Farms, Inc. and Dodson Ag, Inc., and is a partner in Legacy Farms and 3-D Farms. He is manager of Weber Station LLC, which is the managing partner of Weber Greene, Ltd., both of which are family farm real estate management firms. Mr. Dodson is a founding member of Cotton Leads, a responsible cotton production initiative of U.S. and Australian Cotton Producer organizations. He also serves on the boards of Gulf Coast Cooperative, an agricultural retail cooperative, and the Texas Agricultural Cooperative Council, an industry trade association. He is past chairman of the National Cotton Council of America, the American Cotton Producers and the Cotton Foundation, and formerly served as a director of Cotton Incorporated. He is past chairman of the Texas AgFinance, FCS board of directors and a former member of the Texas District's Stockholders Advisory Committee. Mr. Dodson became a director of the bank in 2003 and his current term expired at the end of 2017. He was re-elected to another three-year term effective January 1, 2018.

Lester Little, 67, vice chairman of the board of directors, is from Hallettsville, Texas. He owns and operates a farm and offers customfarming services, primarily reclaiming farms and handling land preparation. His principal crops are corn, milo, hay and wheat. Mr. Little is a member of the bank's audit and compensation committees. He is also a member of the Tenth District Farm Credit Council. In addition, he is a member of the Farm Bureau, an agriculture trade organization, and served on the Lavaca Regional Water Planning Group, a regional water planning authority in Texas, during 2016. He previously was a board member of the Lavaca Central Appraisal District, a county organization in Texas that hires the chief appraiser for the county for purposes of assigning real estate values for tax assessments, and was board chairman of the Hallettsville Independent School District Board of Trustees. He is former chairman of the Capital Farm Credit board of directors and previously served as vice chairman of the Texas District's Stockholders Advisory Committee. Mr. Little became a director in 2009 and his term expired at the end of 2017. He was re-elected to another three-year term effective January 1, 2018.

Brad C. Bean, 57, is from Gillsburg, Mississippi. He is a dairy farmer with other farming interests, including corn, sorghum and timber. Mr. Bean is chairman of the bank's audit committee and is also a member of the bank's compensation committee. In January 2017, he was elected chairman of the Tenth District Farm Credit Council and was also elected to the national Farm Credit Council Board of Directors as a district representative. Mr. Bean serves on the boards of the Amite County Farm Bureau and the Amite County Cooperative, both of which are trade organizations. Mr. Bean is a former chairman of the Southern AgCredit, ACA Board of Directors and a former vice chairman of the Texas District's Stockholders Advisory Committee. Mr. Bean became a director in 2013 and his term expires at the end of 2018. Ralph W. "Buddy" Cortese, 71, is from Fort Sumner, New Mexico. He is president of Cortese Farm and Ranch, Inc., a farming and ranching operation. He is chairman of the bank's compensation committee and is a member of the bank's audit committee. Mr. Cortese also is a member of the Tenth District Farm Credit Council board. He currently serves on the board of the Federal Farm Credit Banks Funding Corporation. Mr. Cortese served as chairman of the board of directors of the bank from 2000 through 2011. He is a member of the Texas Agricultural Cooperative Council board of directors, an industry association. From 2003 to 2008, he served on the board of Federal Agricultural Mortgage Corporation (Farmer Mac), a government agency chartered to create a secondary market for agricultural loans, and is a former board member of the American Land Foundation, a property rights organization. Prior to joining the bank board, he was chairman of the PCA of Eastern New Mexico board of directors. Mr. Cortese became a director in 1995 and his term expired at the end of 2016. He was re-elected to another three-year term effective January 1, 2017.

Linda C. Floerke, 56, was elected to her first term on the board of directors effective January 1, 2017, and her current term expires December 31, 2019. She is a member of the bank's audit and compensation committees and is also a member of the Tenth District Farm Credit Council. In January 2018, she was elected vice chairman of the bank's compensation committee. Ms. Floerke lives near Lampasas, Texas, where she and her husband, Benton, raise cattle, whitetail deer and hay as Buena Vista Ranch, FLP. They also provide consultation and management for AgroTech Partners, LLC, which provides services such as liquid fertilizer, crop chemicals, custom application and cattle protein supplements to area farmers and ranchers. They also own and manage rental property in Uvalde, Real and Williamson counties. She is a co-owner of Casa Floerke LLC, a rental property business, and is the secretary/treasurer and co-owner of Jarrell Farm Supply, Inc. Ms. Floerke serves on the Staff Parish Relations Committee for the Lampasas United Methodist Church and serves on the Texas A&M AgriLife Extension Leadership Advisory Board, which provides oversight of agricultural extension services. She previously served as a trustee of the Lampasas Independent School District. Ms. Floerke was a director of Lone Star Ag Credit, formerly Texas Land Bank, from 2012 through the end of 2016.

Elizabeth G. "Betty" Flores, 73, is from Laredo, Texas, where she served as city mayor from 1998 to 2006. Ms. Flores is one of the two appointed members on the board and serves on the bank's audit and compensation committees. During 2017, she was vice chairman of the bank's compensation committee. She is also a member of the Tenth District Farm Credit Council. Previously, she was senior vice president of the Laredo National Bank. Ms. Flores serves on the boards of the Texas Agricultural Cooperative Council, an industry association, and Laredo Main Street, a nonprofit organization whose goal is to enhance the vibrant, multicultural community of Laredo's historic downtown and to diversify the economic base of the central business district within the framework of historic preservation, and which hosts El Centro de Laredo Farmers Market, a true certified farmers' market. In 2016, she was appointed by the Texas A&M University Chancellor, John Sharp, to serve on the selection committee to identify a new president for Texas A&M International University. Ms. Flores is a graduate of Leadership Texas 1995, a leadership program for women professional and community leaders for the state of Texas, and Leadership America 2008, a national leadership program for women professional and community leaders. In 2010, she was appointed to serve as a member of the Farm Credit System Diversity Workgroup. Ms. Flores is a partner in a ranching and real estate partnership, E.G. Ranch, Ltd. She is a former member of the Federal Reserve Board Consumer Advisory Council. Ms. Flores became a director in 2006 and her term expires at the end of 2018.

M. Philip Guthrie, 72, was appointed effective July 1, 2015, to a term on the board expiring at the end of 2017. He was re-appointed to a new three-year term effective January 1, 2018. He is vice chairman of the bank's audit committee and also serves on the bank's compensation committee. He is also a member of the Tenth District Farm Credit Council. He is one of the board's designated financial experts on the board audit committee for the bank. Mr. Guthrie is the chief executive officer of Denham Partners LLC, a Dallas-based private investment firm, and the chief executive officer and director for Neuro Holdings International LLC, which is a medical devices firm. He also serves as a director for Neuro Resources Group, a medical devices firm. Early in his career, he was chief financial officer of Southwest Airlines, and later served as chief financial officer of Braniff International during that airline's reorganization. Mr. Guthrie also was managing director of Mason Best Co., a Dallas-based investment firm, for 10 years, and has served as chairman, director or chief executive officer of several private and public financial service companies, both in banking and insurance. A Certified Public Accountant and a Chartered Global Management Accountant, Mr. Guthrie is audit committee-qualified under the guidelines of the Securities and Exchange Commission, the New York Stock Exchange and Nasdaq. He is a stockholder of his family-managed 125-year-old livestock and crop operation in northern Louisiana.

#### Committees

The board of directors has established an audit committee and a compensation committee. All members of the board serve on both the audit committee and the compensation committee. As the need arises, a member of the board of directors will also participate in the functions of the bank's credit review committee. The responsibilities of each board committee are set forth in its respective approved charter.

The disclosure of director and senior officer information included in this disclosure information and index was reviewed by the compensation committee prior to the annual report's issuance (including the disclosure information and index) on March 1, 2018.

## Compensation of Directors

Directors of the bank are compensated in cash for service on the bank's board. An annual compensation amount is considered as a retainer for all services performed by the director in an official capacity during the year except for extraordinary services for which additional compensation may be paid. The annual retainer fee is to be paid in equal monthly installments. Compensation for 2017 was paid at the rate of \$58,115 per year, payable at \$4,842.92 per month. In addition to days served at board meetings, directors may serve additional days on other official assignments and under exceptional circumstances where extraordinary time and effort are involved, the board may approve additional compensation, not to exceed 30 percent of the annual maximum allowable by FCA regulations. In this regard, effective July 1, 2017, additional compensation was paid for leadership positions on the board on an annual basis, including the chairman in the amount of \$12,000 and vice chairman in the amount of \$5,000 of the board, chairman and vice chairman of each board standing committee as well as to members of each board standing committee. The additional compensation was as follows: audit committee chairman \$10,000, audit committee vice chairman \$5,000, compensation committee chairman \$10,000, compensation vice chairman \$5,000, audit committee membership of \$2,500 and compensation committee membership of \$2,500. No director received non-cash compensation exceeding \$5,000 in 2017. Total cash compensation paid to all directors as a group during 2017 was \$447,805.

#### Information for each director for the year ended December 31, 2017, is provided below:

		Days Served on	Т	otal	
	Days Served at	Other Official	Comp	ensation	
Board Member	Board Meetings*	Assignments**	Paid***		
James F. Dodson	33.25	32.50	\$	66,615	
Lester Little	33.00	30.50		63,115	
Brad C. Bean	30.50	28.75		65,615	
Ralph W. Cortese	32.75	30.50		65,615	
Linda C. Floerke	32.75	29.00		60,615	
Elizabeth G. Flores	30.50	24.50		63,115	
M. Philip Guthrie	32.75	30.50		63,115	
			\$	447.805	

\*Includes travel time, but does not include time required to prepare for board meetings. Also includes attendance via teleconference.

\*\*Includes audit committee meetings, compensation committee meetings, credit review committee meetings, special assignments, training and travel time.

\*\*\*Reflects regular compensation and additional compensation for the year presented.

Directors are reimbursed for reasonable travel, subsistence and other related expenses while conducting bank business. The aggregate amount of expenses reimbursed to directors in 2017, 2016 and 2015 totaled \$177,377, \$122,538 and \$139,053, respectively. A copy of the bank's travel policy is available to shareholders upon request.

## SENIOR OFFICERS

Name and Title	Position	Experience – Past Five Years	Other Business Interests – Past Five Years
Larry R. Doyle, <i>Chief Executive Officer</i>	14.5 years		He was appointed to be a member of the board of directors for the Federal Farm Credit Banks Funding Corporation in September of 2016 and was reappointed in March of 2017 for a three-year term. He was chairman of the Farm Credit System Presidents Planning Committee (PPC), currently serves on the PPC executive and business practices committees and is chairman of the PPC finance committee. He serves on the National Council of Farmer Cooperatives Executive Council. He is the managing member of the following organizations: Lone Star Plantation LLC, a family-owned farming and land ownership operation, K&R Farm LLC, a family-owned farming operation and K&R Land Holdings, a family-owned land ownership operation.
Kurt Thomas,* Senior Vice President, Chief Credit Officer	7.6 years		He served as a member of the board of governors for the Farm Credit System Captive Insurance Corporation until his term expired in February 2011 and served as a member of the Farm Credit System Credit Workgroup. He is the manager of Estancia Maximo, a hunting and ranching business.

Name and Title	Position	Experience – Past Five Years	Other Business Interests – Past Five Years
John Sloan, Senior Vice President, Chief Credit Officer	1 month	Vice President and Unit Manager, 2014-2017; Vice President and Relationship Manager, prior to 2014, Association Direct Lending Group, FCBT	
Carolyn Owen, Senior Vice President, Corporate Affairs, General Counsel and Corporate Secretary	4.8 years	Vice President, Corporate Affairs, Deputy General Counsel, FCBT	She serves as a member of the Farm Credit System Capital Workgroup.
Amie Pala, Senior Vice President, Chief Financial Officer	7.4 years		She serves as a member of the Farm Credit System Capital Workgroup and of the Farm Credit System Disclosure Committee.
Michael Elliott, Chief Information Officer	4 years	Vice President of Information Technology, FCBT 2011-2013	
Stan Ray, Chief Administrative Officer	7.4 years		He serves on the AgFirst/FCBT Plan Sponsor Committee, the Texas District Benefits Administration Committee and the Farm Credit System's Reputation Risk Analysis and Planning Workgroup. He is president of the Tenth District Farm Credit Council, a trade organization. He is a member of the board of directors for the following organizations: Texas FFA Foundation, a nonprofit organization promoting youth in agriculture; Texas Agricultural Cooperative Council, an industry association; and Rodeo Austin, a nonprofit organization promoting youth education and Western heritage.
Nisha Rocap, Chief Audit Executive	2 months	Risk Assurance Director, PricewaterhouseCoopers	
Susan Wallar, Vice President, Special Projects	1 month	Chief Audit Executive, FCBT	She serves as a member of the board of governors and is chairman of the audit committee for the Farm Credit System Captive Insurance Corporation. She was a member of the Farm Credit System Review, Audit and Appraisal Workgroup (RAAW) and the Farm Credit System Internal Controls over Financial Reporting (ICFR) Workgroup.

\*Kurt Thomas served as Senior Vice President, Chief Credit Officer until his retirement effective December 31, 2017.

## Compensation Discussion and Analysis – Senior Officers

#### Overview

The board of directors of the Farm Credit Bank of Texas, through its compensation committee, has pursued a compensation philosophy for the bank that promotes leadership in the adoption and administration of a comprehensive compensation program.

A description of the bank's compensation plans is as follows.

#### Base Pay

Market-based salaries along with the other incentive and benefits described below are critical to attracting and retaining needed talent in a highly competitive job market and at a time of high retirement risks.

#### Defined Benefit Pension Plan

The Defined Benefit Pension Plan (Pension Plan) is a final average pay plan which was closed to new participants in 1996, and later fully closed to all participants, including rehires who had formerly participated in the plan. The Pension Plan benefits are based on the average monthly eligible compensation over the 60 consecutive months that produce the highest average after 1996 (FAC60). The Pension Plan's benefit formula for a Normal Retirement Pension is the sum of (a) 1.65 percent of FAC60 times "Years of Benefit Service" and (b) 0.50 percent of (i) FAC60 in excess of Social Security covered compensation times (ii) "Years of Benefit Service" (not to exceed 35).

The Pension Plan's benefit formula for the Normal Retirement Pension assumes that the employee's retirement age is 65, that the employee is married on the date the annuity begins, that the spouse is exactly 2 years younger than the employee and that the benefit is payable in the form of a 50 percent joint and survivor annuity. If any of those assumptions are incorrect, the benefit is recalculated to be the actuarial equivalent benefit. The Pension Plan benefit is offset by the pension benefits any employee may have from another Farm Credit System institution.

The Pension Plan was amended in 2013 to allow those retiring after September 1, 2013, to elect a lump-sum distribution option. The plan was also amended to allow participating employers to exclude from pension compensation new long-term incentive plans which began after January 1, 2014.

In 2014 the plan was amended to allow terminated employees with a vested benefit to also elect a lump-sum distribution beginning January 1, 2015.

#### 401(k) Plan – Elective

Farm Credit Benefits Alliance (FCBA) 401(k) Plan is open to all bank employees and includes up to a 4 percent employer match on employee deferrals up to Internal Revenue Service (IRS) directed limits. Employees become fully vested in the plan upon participation. The plan allows for self-directed investment choices by participants.

## 401(k) Plan – Non-Elective Defined Contribution Plan

FCBA 401(k) Plan's Defined Contribution component is open to employees not participating in the Defined Benefit Pension Plan. Employees become fully vested in the plan upon participation and receive a 5 percent employer contribution each pay period up to IRS-directed limits to the participant's account which is invested in the self-directed investment choices available.

#### Nonqualified Supplemental 401(k) Plan

With the exception of the CEO, this plan is open to all employees who meet the minimum salary requirements set by the IRS. It has three features: elective deferral of employee compensation; discretionary employer contributions; and restored employer contributions that make an employee "whole" when 401(k) IRS limitations are met. Deferred money is invested with similar investment fund choices as the qualified 401(k) Plan at the participant's direction.

#### Success Sharing Plan

The purpose of the Farm Credit Bank of Texas Success Sharing Plan (SSP) is to advance the mission of the bank by recognizing employees with variable pay through a discretionary bonus. The SSP (also categorized as a bonus or profit-sharing plan), rewards employees as the overall organization experiences success and performs within the realities of the current market environment and in accordance with business planning goals and objectives. Additionally, it is expected to help to attract, motivate and retain bank staff.

The SSP provides an annual award that is paid after the bank's operational results and strategic objectives are reported and assessed by the compensation committee of the board. The compensation committee has the final authority to determine if a success sharing award is to be paid and what percentage of the award target will be funded. The CEO does not participate in this plan; otherwise, all employees are eligible to participate in the SSP for that year. This program applies the concept of differential factors for all eligible bank participants, and is tiered into five groups according to employee job grades and their accountability level inside the entire organization. Each employee group has its own Success Sharing Award Factor for this plan. This factor is multiplied by the employee's December 31st annualized base compensation to arrive at the Success Sharing Plan award target for the year.

When a promotion or salary adjustment occurs during the year that elevates an employee's job grade into a higher employee group in the plan, the plan's award calculation will be prorated and paid at the separate employee group percentages for the periods the employee was in each of the employee groups. Additionally, when a salary adjustment occurs, the plan's award calculation will be prorated and paid at the separate employee salaries for the periods the employee was at each salary.

#### FCBT Retention Plan

This is a nonqualified plan for bank employees that provides dollar incentives to remain employed for specific time periods to accomplish important bank initiatives or to aid in leadership succession. It is paid according to the agreement arranged for each participant. The CEO approves and recommends participants to the compensation committee, which approves plan provisions and participant agreements. Several employees were offered and accepted three-year retention plans in 2015. These employees have expertise with current software and systems that the bank is transitioning from to new software/system solutions. In order to retain these employees with critical knowledge, the bank offered retention plans that were accepted by the employees. The three-year retention plans are back loaded. The employees will receive 15 percent payout at the end of the first and second year if employed on December 31 each year. At the end of the third and final year, the employees will receive the last payment of 70 percent of the agreed-upon amount.

#### Spot Awards Program

This bank program allows for discretionary awards to be paid to employees throughout the year in recognition of outstanding performance events or service provided to the bank's customers. Senior officers do not participate in this program.

#### Bank-Owned Vehicle Program

Use of bank-owned vehicles is provided to three groups within the bank: the executive group, which is comprised of voting members of the bank's executive committee; the senior management group, which includes members defined by the CEO exclusive of the voting members of the executive committee; and the other group consisting of employees who have been identified by executive committee members as requiring a vehicle for job performance. Any current employee who was in possession of a bank-provided vehicle when vehicle eligibility guidelines were set was grandfathered for their remaining uninterrupted employment term at the bank. Employees assigned use of a bank-owned vehicle are required to maintain written records of their business and personal use. This data is used to annually impute to the employee's taxable wages the personal use value of the vehicle following the IRS lease value rule.

#### Educational and Training Program

This program was established in recognition that ongoing enrichment of employees' skills, knowledge and expertise is essential not only for the success of the bank and the retention of key employees, but for the realization of employees' personal growth and achievement.

This program is directed to employees at all levels and includes formal orientation of new hires, a continuing education and degree program, and a licensing and certification program. The degree program reimbursement is open to full-time employees who have been with the bank at least six months. This program covers tuition, lab fees, books and registration fees if the employee receives a grade of C or better in undergraduate courses and B or better in graduatelevel courses, and expenses are in excess of those reimbursable by a scholarship or other sources.

Tuition reimbursement will not normally exceed the cost per semester hour charged at state-supported universities. Expenses incurred above the state-supported university baseline are the responsibility of the employee. Certain positions in the bank must be staffed by employees who hold professional licenses and/or certifications. In these instances, the membership and license fees, training and educational expenses for obtaining and maintaining professional status, licenses and certifications are reimbursable.

## Compensation, Risk and Performance

One of the critical strategic goals of the bank is to provide marketdriven financial products and support services to add value to our association customers. The bank succeeds at this through robust customer communications and relationships to stay aware of their business needs. Our staff provides technical, credit, operational and marketing support, and offers leadership in talent acquisition, retention and development. Our ability to succeed in these areas is dependent upon having a knowledgeable and experienced customerservice-focused workforce that is responsive but also proactive in meeting our district's business challenges and recognizing and taking advantage of opportunities, including promoting the bank's mission as a government-sponsored enterprise.

Market and higher compensation programs are required to keep Farm Credit competitive in the talent war currently being waged in Austin, Texas. The bank is located in one of the nation's top economic markets. It has become known as the "Silicon Hills" for the large number of technology firms located here that pay top salaries to information technology professionals as well as many other employee classifications. The unemployment rate has for years been lower than the national average (currently less than 3 percent compared to about 4 percent nationally), which makes attracting talent a struggle with not only the aggressive tech sector, but also with competition from major medical, real estate and government employers. Austin is one of the country's fastest growing regions bringing new talent into the market, but also attracts new employers seeking those same resources. All these factors exert an upward pressure on all aspects of the employee value proposition and stress in acquiring and retaining the skilled workforce needed to achieve the bank's goals.

While external factors impact compensation programs, internal measures are in place to make certain there is alignment with the bank's performance. Market-driven base salaries are combined with a bonus program that is at risk each year. The compensation committee of the district board annually determines the structure and the award for the Success Sharing Plan, a short-term bonus plan. This gives them the agility to modify or discontinue the plan in response to changing circumstances. The bank is not locked into an incentive program for any extended period of time.

The SSP in regard to the total compensation mix is not overly significant or significantly larger than the market practice. Multiple performance measures are considered, which include financial and operational metrics. Although awards are based on a single year's performance, because the bank's customers are its cooperative associations, performance in the time period measured is less uncertain than in businesses with larger and lesser known customer bases. The board and compensation committee review the bank's financial and operational performance at each meeting, so SSP decisions are reviewed by the same centralized group who hear those reports all year. Additionally, the compensation committee has external resources to support its oversight and uses that independent compensation consultant to review SSP awards with its annual executive compensation update. In making its decision on the SSP award at year end, the compensation committee analyzes the bank's performance against the business plan for the year. The business plan is approved by the full composition of the board at the beginning of the year and is monitored all year as the CEO and senior team members deliver management and other reporting on bank performance and respond to director questions. Financial metrics include net income, the associations' direct note volume, allowance for loan losses, nonaccrual loans, capital market and investment income, total asset growth, credit quality, permanent capital ratio, and at year end, the association patronage. Operational accomplishments considered vary but typically include staff outreach to associations, participation and leadership in System workgroups and initiatives, debt issuances, credit and technology products and services delivered, marketing support, talent acquisition and talent management support, and continued progress in diversity and inclusion efforts.

#### Chief Executive Officer (CEO) Compensation Table and Policy

In December 2016, a memorandum of understanding between the bank and the CEO was executed with an effective date of January 1, 2017, which supersedes the previous memorandum of understanding effective January 2, 2014. The memorandum of understanding is effective for a term of three years, until December 31, 2019. The base salary for each year of the three-year term for the CEO will be \$1,375,000. Bonus payments, if any, are at the sole discretion of the compensation committee. The employment relationship between the bank and CEO remains at-will, meaning the bank may terminate the CEO's employment at any time, and the CEO may choose to leave at any time.

As previously mentioned, the CEO bonus is discretionary and subject to the approval of the bank's compensation committee. The compensation committee reviews the same bank financial performance and operational metrics that the committee evaluates for purposes of the SSP. Additionally, for both the CEO and senior officer group, the compensation committee has annual peer market data it reviews with its third-party consultant before making CEO base and bonus pay decisions. The compensation committee also reviews seven dimensions of CEO performance and has discussions about goals set for the current year and successes in meeting those goals. The seven dimensions of CEO performance are: strategy and vision; leadership; innovation/technology; operating metrics; risk management; people management; and external relationships.

The following table summarizes the compensation paid to the CEO of the bank during 2017, 2016 and 2015.

	Summary Compensation Table for the CEO												
					Annual								
Name of Chief Executive Officer	Year	Salary (a)	Bonus (b)	Change in	Pension Value (c)	Deferred	/Perquisites (d)		Other (e)		Total		
Larry R. Doyle	2017	\$ 1,375,053	\$ 1,500,000	\$	181,118	\$	16,932	\$	-	\$	3,073,103		
Larry R. Doyle	2016	1,250,048	1,375,000		102,812		960		-		2,728,820		
Larry R. Doyle	2015	1,250,048	1,250,000		(29,609)		9,294		-		2,479,733		

(a) Gross salary for year presented.

Bonus compensation is presented in the year earned, and bonuses are paid within the first 30 days of the subsequent calendar year. For 2017, bonus compensation was paid (b) in January 2018 of \$1,500,000 based on the performance of the bank during 2017. For 2016, bonus compensation was paid in January 2017 of \$1,375,000 based on the performance of the bank during 2016. For 2015, bonus compensation was paid in January 2016 of \$1,250,000 based on the performance of the bank during 2015.

For 2017, 2016 and 2015, disclosure of the change in pension value represents the change in the actuarial present value of the accumulated benefit under the defined benefit (C) pension plan, the Farm Credit Bank of Texas Pension Plan, from the pension measurement date used for financial statement reporting purposes with respect to the audited financial statements for the prior completed fiscal year to the pension measurement date used for financial statement reporting purposes with respect to the audited financial statements for the covered fiscal year. For 2017 and 2016, the change in pension value is primarily associated with a decline in the discount rate as compared to the prior years. For 2015, the negative (or decrease) change in pension value is due to the increase in the accounting disclosure rate for 2015 as compared to 2014.

Deferred/Perquisites for 2017 includes contributions to a 401(k) plan and premiums paid for life insurance. For 2016, the amount includes premiums paid for life insurance. For (d) 2015, the amount reflected includes contributions to a 401(k) plan, automobile benefits and premiums paid for life insurance.

No values to disclose. (e)

## Compensation of Other Senior Officers

The following table summarizes the compensation paid to the aggregate number of senior officers, plus one highly compensated individual that is not a senior officer of the bank, during 2017, 2016, and 2015. Amounts reflected in the table are presented in the year the compensation is earned.

Summary Compensation Table for Other Officers												
		Annual										
Aggregate Number in Group (excludes CEO)	Year	Salary (a)	Bonus (b)	Change in Pension Value (c)	Deferred/Perquisites (d)	) Other (e)	Total					
9 Officers	2017	\$ 2,195,979	\$ 1,034,423	\$ 583,589	\$ 274,901	\$ 51,658	\$ 4,140,550					
8 Officers	2016	2,043,668	975,921	1,276,074	270,692	-	4,566,355					
8 Officers	2015	1,939,518	925,184	135,850	260,208	-	3,260,760					

(a) Gross salary for year presented.

Bonuses paid within the first 30 days of the subsequent calendar year. (b)

For 2017, 2016 and 2015, disclosure of the change in pension value represents the change in the actuarial present value of the accumulated benefit under the defined benefit (C) pension plan, the Farm Credit Bank of Texas Pension Plan, from the pension measurement date used for financial statement reporting purposes with respect to the audited financial statements for the prior completed fiscal year to the pension measurement date used for financial statement reporting purposes with respect to the audited financial statements for the covered fiscal year. The significant increase in the change in pension value for 2016 is due to an officer attaining the required years of service and age to receive the maximum benefit allowed under the plan.

- Deferred/Perquisites include contributions to 401 (k) and defined contribution plans, supplemental 401 (k) discretionary contributions, automobile benefits and premiums paid (d) for life insurance.
- (e) For 2017, other includes physical fitness compensation, service and retirement rewards, and payment to a senior officer who retired at December 31, 2017. For 2016 and 2015, there were no values to disclose.

For 2017, the aggregate number of officers includes one senior officer who retired from the bank effective December 31, 2017.

Disclosure of the compensation paid during 2017 to any senior officer or officer included in the table is available and will be disclosed to shareholders of the institution and stockholders of the district's associations upon written request.

Senior officers, including the CEO, are reimbursed for reasonable travel, subsistence and other related expenses while conducting bank business. A copy of the bank's travel policy is available to shareholders upon request.

Neither the CEO nor any other senior officer received non-cash compensation exceeding \$5,000 in 2017.

## Pension Benefits Table for the CEO and Senior Officers as a Group

The following table presents the total annual benefit provided from the defined benefit pension plan applicable to the CEO and senior officers as a group, plus one highly compensated individual that is not a senior officer of the bank, for the year ended December 31, 2017:

Name	Plan Name	Number of Years Credited Service	Present Value of Accumulated Benefit	Payments During 2017		
Larry R. Doyle	Farm Credit Bank of Texas Pension Plan	44.197	\$ 1,924,284	\$-		
Name	Plan Name	Average Years Credited Service	Present Value of Accumulated Benefit	Payments During 2017		
Officers, including Other	Farm Credit Bank of Texas Pension Plan	35.289	\$ 6,223,337	\$ -		

Highly Compensated Employee

## Description of Property

On September 30, 2003, the bank entered into a lease for approximately 102,500 square feet of office space to house its headquarters facility located at 4801 Plaza on the Lake Drive, Austin, Texas. The lease was effective September 30, 2003, and its term was from September 1, 2003, to August 31, 2013. On November 16, 2010, the bank entered into a lease amendment which extended the term of the lease to August 31, 2024. In addition, the lease amendment included expansion of the leased space to approximately 111,500 square feet of office space and an "early out" option to terminate the lease in 2020.

## Legal Proceedings

There were no matters that came to the attention of the board of directors or management regarding the involvement of current directors or senior officers in specified legal proceedings which are required to be disclosed.

There are no legal proceedings pending against the bank and associations, the outcome of which, in the opinion of legal counsel and management, would materially affect the financial position of the bank and associations. Note 12, "Commitments and Contingencies," to the accompanying financial statements outlines the bank's position with regard to possible contingencies at December 31, 2017.

## Description of Capital Structure

The bank and associations are authorized to issue and retire certain classes of capital stock and retained earnings in the management of their capital structures. Details of the capital structures are described in Note 9, "Shareholders' Equity," to the accompanying financial statements, and in the "Management's Discussion and Analysis" of the district included in this annual report to stockholders.

## Description of Liabilities

The bank's debt outstanding is described in Note 8, "Bonds and Notes," to the accompanying combined financial statements. The bank's contingent liabilities are described in Note 12, "Commitments and Contingencies," to the accompanying combined financial statements. See also Note 10, "Employee Benefit Plans," with regard to obligations related to employee retirement plans.

## Selected Financial Data

The selected financial data for the five years ended December 31, 2017, required to be disclosed, is incorporated herein by reference to the "Five-Year Summary of Selected Financial Data" included in this annual report to stockholders.

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

"Management's Discussion and Analysis," which precedes the combined financial statements in this annual report, is incorporated herein by reference.

## Transactions With Senior Officers and Directors

The policies on loans to and transactions with the bank's officers and directors, required to be disclosed in this section, are incorporated herein by reference to Note 11, "Related Party Transactions," to the accompanying financial statements.

## **Related Party Transactions**

As discussed in Note 1, "Organization and Operations," the bank lends funds to the district associations to fund their loan portfolios. Interest income recognized on direct notes receivable from district associations was \$269,064, \$240,149 and \$213,802 for 2017, 2016 and 2015, respectively. Further disclosure regarding these related party transactions is found in Note 4, "Loans and Reserves for Credit Losses," and Note 9, "Shareholders' Equity."

In addition to providing loan funds to district associations, the bank also provides banking and support services to them, such as accounting, information systems, marketing and other services. Income derived by the bank from these activities was \$3,889, \$4,355 and \$4,150 for 2017, 2016 and 2015, respectively, and was included in the bank's noninterest income.

The bank had no transactions with nor loans to directors or senior officers, their immediate family members, or any organizations with which such senior officers or directors are affiliated, during 2017, 2016 and 2015.

## Relationship With Public Accountants

There were no changes in independent qualified public accountants since the prior annual report to shareholders, and there were no material disagreements with our independent qualified public accountants on any matter of accounting principles or financial statement disclosure during the period.

Fees for professional services paid by the bank during 2017 to PricewaterhouseCoopers LLP, the bank's independent qualified public accountants, were as follows.

- Audit services of \$941 related to the integrated audit for the bank and annual audit of the financial statements for the district of \$395, additional controls assessment and auditing procedures for district associations of \$344, and the completion of the 2016 annual audit of the financial statements of \$178 and \$24 related to out-of-pocket expenses for 2017 and 2016. Engagement letters for audit services for 2017 for the integrated audit for the bank and annual audit of the financial statements for the district reflect an estimated fee of \$683 for the bank and district, plus reasonable out-of-pocket expenses.
- Audit-related services of \$179 of which \$166 was related to procedures completed for the bank's SOC2 (Service Organization Control 2) assessment, specifically directed at evaluating the suitability of design and operating effectiveness of controls related to credit delivery, accounting, processing and related application hosting system. Of the total, \$13 was associated with an internal controls over financial reporting (ICFR) readiness project for the bank for 2016. An engagement letter estimated the fees for the SOC2 engagement for 2017 to be \$160 to \$175, plus any out-of-pocket expenses.
- Non-audit services of \$25 associated with cybersecurity training to the bank's board of directors. In addition, the tabulation of ballots for the elections of the FCBT Board of Directors and bank nominating committee members and reporting of the results to the bank was completed by PricewaterhouseCoopers LLP with no fee paid.

• FCBT is exempt from federal and certain other income taxes as provided in the Farm Credit Act. No tax services were provided by PricewaterhouseCoopers LLP.

Fees paid for the audit of the Farm Credit Benefits Alliance (FCBA) 401(k) plan for 2016 as engaged by the AgFirst/FCBT Plan Fiduciary Committee totaled \$16 and represented the bank's proportionate share of fees paid.

With the exception of the audit of the FCBA 401(k) plan, the nonaudit services for the bank listed above required pre-approval of the bank's audit committee, which was obtained.

## Relationships With Unincorporated Business Entities (UBEs)

The bank has a relationship with FCBT BioStar B LLC, which is a limited liability company organized for the purpose of acquiring and managing unusual or complex collateral associated with loans.

The bank and a district association are among the forming limited partners for a \$154.5 million Rural Business Investment Company (RBIC), Advantage Capital Agribusiness Partners, LP (ACAP), established on October 3, 2014. Additionally, the bank is among the forming limited partners for a \$31.3 million RBIC, Innova Ag Innovation Fund IV, LP (Innova), established December 12, 2016. The RBICs will facilitate private equity investments in agriculture-related businesses that will create growth and job opportunities in rural America. Each limited partner has a commitment to contribute up to \$20.0 million and \$5.0 million to ACAP and Innova, respectively, over a 10-year period and, as of December 31, 2017, FCBT has invested \$11.8 million in both RBICs, included in "Other assets" on the Balance Sheets.

Information regarding UBEs for district associations is disclosed in the individual association annual reports.

## **Financial Statements**

The financial statements, together with the report thereon of PricewaterhouseCoopers LLP dated March 1, 2018, and the report of management in this annual report to shareholders, are incorporated herein by reference.

The Farm Credit Bank of Texas' and its affiliated associations' (district) annual and quarterly reports are available free of charge, upon request. These reports can be obtained by writing to Farm Credit Bank of Texas, The Ag Agency, P.O. Box 202590, Austin, Texas 78720 or by calling (512) 483-9260. Copies of the bank's quarterly and annual stockholder reports can be requested by sending an e-mail to *fcb@farmcreditbank.com*. The bank's quarterly report is available approximately 40 days after the end of each fiscal quarter. The bank's annual report will be posted on the bank's website (*www.farmcreditbank.com*) within 75 calendar days of the end of the bank's fiscal year. This posting coincides with an electronic version of the report being provided to its regulator, the Farm Credit Administration. Within 90 calendar days of the end of the bank's fiscal year, a copy of the bank's annual report will be provided to its stockholders.

## **Borrower Information Regulations**

Farm Credit Administration (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.

## Credit and Services to Young, Beginning and Small Farmers and Ranchers, and Producers or Harvesters of Aquatic Products (YBS)

In line with its mission, the district has policies and programs for making credit available to young, beginning and small farmers and ranchers.

The definitions for YBS, as prescribed by FCA regulations, are provided below.

*Young Farmer or Rancher* – 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 or Rancher* – A farmer, rancher or producer or harvester of aquatic products who had 10 years or less of experience at farming, ranching or producing or harvesting aquatic products as of the date the loan was originally made.

*Small Farmer or Rancher* – A farmer, rancher or producer or harvester of aquatic products who normally generated less than \$250,000 in annual gross sales of agricultural or aquatic products at the date the loan was originally made.

For the purposes of YBS, the term "loan" means an extension of, or a commitment to extend, credit authorized under the Farm Credit Act, whether it results from direct negotiations between a lender and a borrower or is purchased from, or discounted for, another lender, including participation interests. A farmer/rancher may be included in multiple categories as they are included in each category in which the definition is met. The bank and associations' efforts to respond to the credit and related needs of YBS borrowers are evidenced by the following table:

The following table summarizes information regarding new loans to young and beginning farmers and ranchers:

	At December 3	31, 2017		For the year December 31	
	Number of Loans	Volume		Number of Loans	Volume
(dollars in thousands)			(dollars in thousands)		
Total loans and commitments	78,499	\$ 28,929,963	Total loans and commitments	18,124	\$ 9,031,711
Loans and commitments to young			Loans and commitments to young	·	
farmers and ranchers	14,328	\$ 2,528,311	farmers and ranchers	3,203	\$ 863,615
Percent of loans and commitments to			Percent of loans and commitments to		
young farmers and ranchers	18.25%	8.74%	young farmers and ranchers	17.67%	9.56%
Loans and commitments to beginning			New loans and commitments to beginning		
farmers and ranchers	39,361	\$ 8,645,093	farmers and ranchers	7,893	\$ 2,531,716
Percent of loans and commitments to			Percent of loans and commitments to	·	
beginning farmers and ranchers	50.14%	29.88%	beginning farmers and ranchers	43.55%	28.03%

The following table summarizes information regarding loans to small farmers and ranchers:

			I	At Decer	nber 31, 2017				
				Lo	an Size				
\$50 1	housand	\$50	to \$100	\$100	to \$250	More	Than \$250		
10	Less	Tho	ousand	Tho	usand	Th	ousand		Total
	13,787		17,191		25,041		22,480		78,499
	10,394		13,812		19,667		12,947		56,820
	75.39%		80.34%		78.54%		57.59%		72.38%
\$	2,570,666	\$	968,238	\$	3,262,026	\$	22,129,033	\$	28,929,963
\$	232,790	\$	745,466	\$	2,474,008	\$	7,121,153	\$	10,573,417
	9.06%		76.99%		75.84%		32.18%		36.55%
	01	10,394 75.39% \$ 2,570,666 \$ 232,790	or Less       The         13,787       10,394         75,39%       \$         2,570,666       \$         \$       232,790       \$	\$50 Thousand or Less       \$50 to \$100 Thousand         13,787       17,191         10,394       13,812         75.39%       80.34%         \$ 2,570,666       \$ 968,238         \$ 232,790       \$ 745,466	Lo         \$50 Thousand or Less       \$50 to \$100 Thousand       \$100 Thousand         13,787       17,191         10,394       13,812         75.39%       80.34%         \$ 2,570,666       \$ 968,238         \$ 232,790       \$ 745,466	or Less       Thousand       Thousand         13,787       17,191       25,041         10,394       13,812       19,667         75.39%       80.34%       78.54%         \$ 2,570,666       \$ 968,238       \$ 3,262,026         \$ 232,790       \$ 745,466       \$ 2,474,008	Loan Size         \$50 Thousand or Less       \$50 to \$100 Thousand       \$100 to \$250 Thousand       More         13,787       17,191       25,041         10,394       13,812       19,667         75.39%       80.34%       78.54%         \$ 2,570,666       \$ 968,238       \$ 3,262,026         \$ 232,790       \$ 745,466       \$ 2,474,008	Loan Size         \$50 Thousand or Less       \$50 to \$100 Thousand       \$100 to \$250 Thousand       More Than \$250 Thousand         13,787       17,191       25,041       22,480         10,394       13,812       19,667       12,947         75.39%       80.34%       78.54%       57.59%         \$ 2,570,666       \$ 968,238       \$ 3,262,026       \$ 22,129,033         \$ 232,790       \$ 745,466       \$ 2,474,008       \$ 7,121,153	Loan Size         \$50 Thousand or Less       \$50 to \$100 Thousand       \$100 to \$250 Thousand       More Than \$250 Thousand         13,787       17,191       25,041       22,480         10,394       13,812       19,667       12,947         75.39%       80.34%       78.54%       57.59%         \$ 2,570,666       \$ 968,238       \$ 3,262,026       \$ 22,129,033       \$         \$ 232,790       \$ 745,466       \$ 2,474,008       \$ 7,121,153       \$

The following table summarizes information regarding new loans made to small farmers and ranchers:

				A	t Decem	iber 31, 2017				
					Loa	an Size				
	\$50 Th	iousand	\$50 t	io \$100	\$100	to \$250	More 1	l fhan \$250		
	or	Less	Tho	usand	Tho	usand	The	ousand	T	otal
(dollars in thousands)										
Total new number of loans and commitments		3,844		3,301		4,911		6,068		18,124
Number of new loans and commitments to										
small farmers and ranchers		2,794		2,462		3,517		2,624		11,397
Percent of new loans and commitments to small										
farmers and ranchers		72.68%		74.58%		71.61%		43.24%		62.88%
Total new loans and commitments volume	\$	100,851	\$	248,854	\$	814,792	\$	7,867,214	\$	9,031,711
Total new loans and commitments to small										
farmers and ranchers volume	\$	77,417	\$	186,568	\$	588,234	\$	1,901,033	\$	2,753,252
Percent of loans and commitments volume to										
small farmers and ranchers		76.76%		74.97%		72.19%		24.16%		30.48%



The following disclosures contain regulatory disclosures as required under Farm Credit Administration Regulation (FCA) 628.63 for riskadjusted ratios: common equity tier 1, tier 1 capital and total capital. Refer to Note 9 of the accompanying Financial Statements for information regarding the statutorily required permanent capital ratio. As required, these disclosures are made available for at least three years and can be accessed at Farm Credit Bank of Texas' website at www.farmcreditbank.com.

## Scope of Application

The Farm Credit Bank of Texas (FCBT or bank) is one of the banks of the Farm Credit System (System), a nationwide system of cooperatively owned banks and associations established by acts of Congress. The System is currently subject to the provisions of the Farm Credit Act of 1971, as amended (Farm Credit Act). 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 bank and its related associations collectively are referred to as the Farm Credit Bank of Texas and affiliated associations (district). The district's one FLCA (Federal Land Credit Association), 13 ACA (Agricultural Credit Associations) parent associations, each containing two wholly-owned subsidiaries (an FLCA and a Production Credit Association [PCA]), certain Other Financing Institutions (OFIs) and preferred stockholders jointly owned the bank at December 31, 2017. The FLCA and ACAs collectively are referred to as associations. The bank is the primary funding source for the district associations. FCBT has no subsidiaries; therefore, the financial statements are only those of the bank and are not consolidated with any other entity. In conjunction with other System entities, the bank jointly owns certain service organizations: the Federal Farm Credit Banks Funding Corporation (Funding Corporation), the Farm Credit System Building Association (FCSBA), and the Farm Credit System Association Captive Insurance Company. Certain of the bank's investments in other System institutions, including the investment in the Funding Corporation and FCSBA, are deducted from capital as only the institution who issued the equities may count the amount as capital. The bank's unincorporated business entities (UBEs), including its investment in the Rural Business Investment Companies (RBICs), and its investment in the Farm Credit System Association Captive Insurance Company are included in risk-weighted assets and are not deducted from any capital component in accordance with FCA regulations. The bank has no consolidated subsidiaries: 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 that is below the minimum total capital requirement.

## Capital Structure

The par value of the bank's common stock is \$5 and the par value of the Class B Series 1 and 2 Noncumulative Perpetual Preferred Stock is \$1,000 and \$100 per share, respectively. The minimum initial borrower investment is equal to the lesser of one thousand dollars or 2 percent of the association's and OFIs' average borrowing from the bank. Our bylaws permit our board of directors to set the required level of association and OFI investment in the bank within a range of 2 to 5 percent of the average association and OFI borrowings. In 2017, the required investment level was 2 percent. There are no capital sharing agreements between the bank and its affiliated associations.

## Description of Bank Equities

Descriptions of the bank's equities, capitalization requirements and restrictions are provided as follows:

Class B Series 1 Noncumulative Subordinated Perpetual Preferred Stock (Class B-1 preferred stock) - On August 26, 2010, the bank issued \$300,000 of Class B noncumulative subordinated perpetual preferred stock, representing 300,000 shares at \$1,000 per share par value for net proceeds of \$296.6 million. Dividends on the preferred stock, if declared by the board of directors at its sole discretion, are noncumulative and are payable semi-annually in arrears on the fifteenth day of June and December in each year, commencing December 15, 2010, at an annual fixed rate of 10 percent of par value of \$1,000 per share. The Class B-1 preferred stock is not mandatorily redeemable at any time, but may be redeemed in whole or in part at the option of the bank after the dividend payment date in June 2020. The Class B-1 preferred stock ranks, both as to dividends and upon liquidation, senior to all outstanding capital stock. Class B-1 preferred stock dividends are required by "dividend/patronage stopper" clauses to be declared and accrued before payment of bank investment and direct note patronage to associations and OFIs can be paid.

Class B Series 2 Noncumulative Subordinated Perpetual Preferred Stock (Class B-2 preferred stock) - On July 23, 2013, the bank issued \$300,000 of Class B noncumulative subordinated perpetual preferred stock, Series 2, representing three million shares at \$100 per share par value, for net proceeds of \$296.0 million. Dividends on the Class B-2 preferred stock, if declared by the board of directors at its sole discretion, are noncumulative and are payable quarterly in arrears on the fifteenth day of March, June, September and December in each year, commencing September 15, 2013, at an annual fixed rate of 6.75 percent of par value of \$100 per share up to, but excluding September 15, 2023, from and after which date will be paid at an annual rate of the 3-Month USD LIBOR plus 4.01 percent. The Class B-2 preferred stock is not mandatorily redeemable at any time, but may be redeemed in whole or in part at the option of the bank on any dividend payment date on or after September 15, 2023. The Class B-2 preferred stock ranks, both as to dividends and upon liquidation, pari passu with

respect to the existing Class B-1 preferred stock, and senior to all other classes of the bank's outstanding capital stock. Class B-2 preferred stock dividends are required by "dividend/patronage stopper" clauses to be declared and accrued before payment of bank investment and direct note patronage to associations and OFIs can be paid.

Class A Voting Common Stock - According to the bank's bylaws, the minimum and maximum stock investments that the bank may require of the ACAs and FLCA are 2 percent (or one thousand dollars, whichever is greater) and 5 percent. The investments in the bank are required to be in the form of Class A voting common stock (with a par value of \$5 per share) and allocated retained earnings. The current investment required of the associations is 2 percent of their average borrowings from the bank. Under the CPP program, the stock investment that the bank requires is 1.6 percent of each AMBS pool and 8 percent of each loan pool. No Class A voting common stock may be retired except at the sole discretion of the bank's board of directors, and provided that after such retirement, the bank shall meet minimum capital adequacy standards as may from time to time be promulgated by the FCA or such higher level as the board may from time to time establish in the bank's Capital Plan. There were 60.1 million shares, 56.6 million shares and 50.9

million shares of Class A voting common stock issued and outstanding at December 31, 2017, 2016 and 2015, respectively.

Class A Nonvoting Common Stock - The bank requires OFIs to make cash purchases of Class A nonvoting common stock (with a par value of \$5 per share) in the bank based on a minimum stock investment of 2 percent (or one thousand dollars, whichever is greater) and on a maximum of 5 percent. The current investment required of the OFIs is 2 percent of their average borrowings from the bank. No Class A nonvoting common stock may be retired except at the sole discretion of the bank's board of directors, and provided that after such retirement, the bank shall meet minimum capital adequacy standards as may from time to time be promulgated by the FCA or such higher level as the board may from time to time establish in the bank's Capital Plan. The bank has a first lien on these equities for the repayment of any indebtedness to the bank. There were 196 thousand shares, 232 thousand shares and 220 thousand shares of Class A nonvoting common stock issued and outstanding at December 31, 2017, 2016 and 2015, respectively.

Allocated retained earnings of \$39,144, \$33,171, and \$27,203 at December 31, 2017, 2016, and 2015, respectively, consisted of allocated equity for the payment of patronage on loans participated with another System bank.

The following table provides a summary of the bank's capital structure at December 31, 2017:

(dollars in thousands)	Month	End Balance	Three Month Average Daily Balance		
Common equity tier 1 capital (CET1)					
Common cooperative equities:					
Purchased other required stock <u>&gt;</u> 7 years	\$	265,197	\$	248,931	
Allocated stock <u>&gt;</u> 7 years		36,042		36,042	
Other required member purchased stock		-		-	
Allocated equities:					
Qualified allocated equities subject to retirement		39,144		33,365	
Nonqualified allocated equities subject to retirement		-		-	
Nonqualified allocated equities not subject to retirement					
Unallocated retained earnings		753,717		851,333	
Paid-in capital		-		-	
Regulatory adjustments and deductions made to CET1		(127,798)		(127,798)	
Total CET1	\$	966,302	\$	1,041,873	
Tier 1 capital (T1)					
Noncumulative perpetual preferred stock	\$	600,000	\$	600,000	
Regulatory adjustments and deductions made to tier 1 capital		· -		· -	
Total additional tier 1 capital (AT1)		600,000		600,000	
Total tier 1 capital	\$	1,566,302	\$	1,641,873	
Total capital					
Common cooperative equities not included in CET1	s		s	_	
Tier 2 capital elements (allowance for loan losses)	Ψ	9.072	ų	9,638	
Regulatory adjustments and deductions made to total capital		5,072		3,000	
Total tier 2 capital (T2)		9,072		9,638	
Total capital	\$	1,575,374	\$	1,651,511	
Reconciliation to statement of condition:					
Total capital	\$	1,575,374	\$	1,651,511	
Additions:					
Accumulated other comprehensive income		(51,902)		(37,832)	
Regulatory adjustments and deductions		153,484		142,802	
Subtractions:					
Tier 2 allowance and reserve		(9,072)		(9,638)	
Total shareholders' equity	\$	1,667,884	\$	1,746,843	

## 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. As part of our business planning process, we perform 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 our mission. Results of these stress tests are reviewed with the board of directors and the FCA. The bank regularly assesses the adequacy of our capital to support current and future activities. This assessment includes maintaining a formal capital plan that addresses our capital targets in relation to our risks and establishes the required investment levels. The plan assesses the capital level and composition necessary to support financial viability and growth. The plan considers factors such as credit risk and allowance levels, quality and quantity of earnings, sufficiency of liquid funds, operational risk, interest rate risk and growth in determining optimal capital levels. The bank periodically reviews and modifies these targets to reflect current business and economic conditions. Our capital plan is updated at least annually and is subject to change at the discretion of the bank's board of directors.

Three Month

(dollars in thousands)	 lonth End Balance	Ave	rage Daily Balance	Risk-Weighted Exposures	
Exposures to:					
Sovereign entities	\$ -	\$	-	\$	-
Supranational entities and MDBs	-		-		-
Government-sponsored entities	14,981,909		14,974,239		2,459,189
Depository institutions, foreign banks and credit unions*	56,183		41,065		2,898
Public sector entities	-		-		-
Corporate exposures, including borrower loans and leases	5,535,002		5,475,380		5,162,303
Residential mortgage loans	-		6		3
Past due and nonaccrual loans	3,393		3,626		5,439
Cleared transactions	-		-		-
Unsettled transactions	-		-		-
Securitizations	54,956		279,103		329,267
Equity investments	127,798		127,798		127,798
Other assets	8,317,135		7,972,334		1,940,353
Deductions:					
Regulatory adjustments and deductions made to CET1	-		-		(127,798)
Regulatory adjustments and deductions made to AT1	-		-		-
Regulatory adjustments and deductions made to T2	 -		-		-
Total standardized risk-weighted assets	\$ 29,076,376	\$	28,873,551	\$	9,899,452
Reconciliation to statement of condition:					
Total standardized risk-weighted assets	\$ 29,076,376	\$	28,873,551		
Off-balance-sheet exposures	(6,178,197)		(6,319,459)		
Derivatives adjustments	-		-		
Other reconciliation items	(61,574)		-		
Total assets	\$ 22,836,605	\$	22,554,092		

#### Risk-Adjusted Assets at December 31, 2017:

\*Also includes OFI exposures that are risk weighted as exposures to U.S. depository institutions and credit unions

#### Capital Conservation and Leverage Buffers

As of December 31, 2017, the bank was well-capitalized and exceeded all capital requirements to which it was subject, including applicable capital buffers. The bank's capital conservation buffer is the lowest of the calculated buffer listed in the table below at 5.99 percent. The bank's leverage buffer of 3.33 percent is equal to the tier 1 leverage ratio minus the minimum tier 1 leverage ratio requirement. Because the bank's conservation and leverage buffers exceed the minimum buffer requirements of 2.5 percent and 1 percent, respectively, the bank currently has no limitations on its distributions and discretionary bonus payments. The aggregate amount of eligible retained income was \$47,753 as of December 31, 2017. Capital conservation and leverage buffers are set forth for the year ended December 31, 2017 as follows:

	Regulatory Minimums	<b>Required Buffer</b>	Ratios as of December 31,	Calculated Buffer
Common equity tier 1 capital ratio*	4.5%	2.5%	10.52%	6.02%
Tier 1 capital ratio*	6.0	2.5	16.59	10.59
Total capital ratio*	8.5	2.5	16.68	8.18
Capital conservation buffer				5.99
Tier 1 leverage ratio	4.0	1.0	7.33	3.33
Leverage buffer				3.33

\*The capital conservation buffer over risk-adjusted ratio minimums will be phased in over 3 years under the FCA revised capital requirement, up to 2.5% beginning in 2020.

## Credit Risk

System entities have specific lending authorities within their chartered territories. The bank is chartered to serve its associations in Texas, Alabama, Mississippi, Louisiana and most of New Mexico. Our chartered territory is referred to as the district. FCBT serves its chartered territory by lending to the district's Federal Land Credit Association (FLCA) and Agricultural Credit Associations (ACAs). 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) as is further discussed in the section "Allowance for Loan Losses and Reserve for Unfunded Commitments." Allowance needs by geographic region are only considered in circumstances that may not otherwise be reflected in the PD and LGD such as flooding or drought. There was no allowance attributed to a geographic area as of December 31, 2017.

#### Impaired Loans

Impaired loans are loans for which it is probable that not all principal and interest will 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, accrual 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 shall remain contractually past due until it is formally restructured or until the entire amount past due, including principal, accrued interest and penalty interest incurred as the result of past due status, is collected or otherwise discharged in full.

A restructured loan constitutes a troubled debt restructuring 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. A concession is generally granted in order to minimize the bank's economic loss and avoid foreclosure. Concessions vary by program, are borrower-specific and may include interest rate reductions, term extensions, payment deferrals or the acceptance of additional collateral in lieu of payments. In limited circumstances, principal may be forgiven. A loan restructured in a troubled debt restructuring is an impaired loan.

Impaired loans are generally placed in nonaccrual status when principal or interest is delinquent for 90 days (unless adequately secured and in the process of collection) or circumstances indicate that full collection of principal and interest is in doubt. In accordance with FCA regulations, all loans 180 days or more past due are considered nonaccrual. When a loan is placed in nonaccrual status, accrued interest that is considered uncollectible is either reversed (if current year interest) or charged against the allowance for loan losses (if prior year interest). Loans are charged off at the time they are determined to be uncollectible. Payments received on nonaccrual loans are generally applied to 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, payments are recognized as interest income. Nonaccrual loans may be returned to accrual status when contractual principal and interest are current, the borrower has demonstrated payment performance, there are no unrecovered prior charge-offs and collection of future payments is no longer in doubt. If previously unrecognized interest income exists at the time the loan is transferred to accrual status, cash received at the time of or subsequent to the transfer is first recorded as interest income until such time as the recorded balance equals the contractual indebtedness of the borrower.

## Allowance for Loan Losses and Reserve for Unfunded Commitments

The bank uses a two-dimensional loan rating model based on an 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 probability of default categories 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 more rapidly as a loan moves from a "9" to other assets especially mentioned and grows significantly as a loan moves to a substandard (viable) level. A substandard (nonviable) rating indicates that the probability of default is almost certain.

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 allowance for loan losses is a valuation account used to reasonably estimate loan and lease 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 determination of the allowance for loan losses is based on management's current judgments about the credit quality of its loan portfolio. A specific allowance may be established for impaired loans under authoritative accounting guidance. Impairment of these loans is measured based on the present value of expected future cash flows discounted at the loan's effective interest rate or, as practically expedient, at the loan's observable market price or fair value of the collateral if the loan is collateral-dependent.

The allowance for loan losses encompasses various judgments, evaluations and appraisals with respect to the loans and their underlying security that, by their nature, contain elements of uncertainty and imprecision. Changes in the agricultural economy and their impact on borrower repayment capacity will cause these various judgments, evaluations and appraisals to change over time. Accordingly, actual circumstances could vary significantly from the institutions' expectations and predictions of those circumstances. The allowance is increased through provisions for loan losses and loan recoveries and is decreased through reversals of provisions for loan losses and loan charge-offs. The level of allowance for loan losses is generally based on recent charge-off experience adjusted for relevant environmental factors. The allowance for loan losses includes components for loans individually evaluated for impairment, loans collectively evaluated for impairment and loans acquired with deteriorated credit quality. Generally, for loans individually evaluated, the allowance for loan losses represents the difference between the recorded investment in the loan and the present value of the cash flows expected to be collected discounted at the loan's effective interest rate, or at the fair value of the collateral, if the loan is collateral-dependent. For those loans collectively evaluated for impairment, the allowance for loan losses is determined using the risk-rating model.

The bank's reserves for credit losses include the allowance for loan losses and a reserve for losses on unfunded commitments. The reserve for losses on unfunded commitments includes letters of credit and unused loan commitments, and is recorded in "Other liabilities" in the Balance Sheet.

#### Credit Risk Management

#### Credit Risk Mitigation Related to Loans

Credit risk arises from the potential inability of an obligor to meet its repayment obligation and exists in our outstanding loans, letters of credit, unfunded loan commitments, investment portfolio and derivative counterparty credit exposures. The bank manages credit risk associated with our lending activities through an assessment of the credit risk profile of an individual borrower. The bank sets its own underwriting standards and lending policies, approved by the board of directors, that provide direction to loan officers. Underwriting standards include, among other things, an evaluation of:

- character borrower integrity and credit history;
- capacity repayment capacity of the borrower based on cash flows from operations or other sources of income;
- collateral protects the lender in the event of default and represents a potential secondary source of loan repayment;
- capital ability of the operation to survive unanticipated risks; and
- conditions requirements that govern intended use of loan funds.

The retail credit risk management process begins with an analysis of the borrower's credit history, repayment capacity and financial position. Repayment capacity focuses on the borrower's ability to repay the loan based on cash flows from operations or other sources of income, including non-farm income. Real estate loans with terms greater than 10 years must be secured by first liens on the real estate (collateral). As required by Farm Credit Administration regulations, each institution that makes loans on a secured basis must have collateral evaluation policies and procedures. Real estate loans with terms greater than 10 years may be made only in amounts up to 85 percent of the original appraised value of the property taken as security or up to 97 percent of the appraised value if guaranteed by a state, federal or other governmental agency. The actual loan to appraised value when loans are made is generally lower than the statutory maximum percentage. Appraisals are required for loans of more than \$250,000. This credit risk-rating process incorporates objective and subjective criteria to identify inherent strengths and weaknesses and risks in a particular relationship.

This credit risk-rating process uses a two-dimensional loan rating structure, incorporating a 14-point risk-rating scale to identify and track the probability of borrower default and a separate 4-point scale addressing loss given default. The 14-point risk-rating scale provides for nine "acceptable" categories, one "other assets especially mentioned" category, two "substandard" categories, one "doubtful" category and one "loss" category. The loss given default scale establishes ranges of anticipated economic loss if the loan defaults. The calculation of economic loss includes principal and interest as well as collections costs, legal fees and staff costs.

By buying and selling loans or interests in loans to or from other institutions within the System or outside the System, we limit our exposure to either a borrower or commodity concentration. This also allows us to manage growth and capital, and to improve geographic diversification. Portfolio credit risk is also evaluated with the goal of managing the concentration of credit risk. Concentration risk is reviewed and measured by industry, commodity, geography and customer limits.

Refer to the Risk-Adjusted Asset table on page 95 for the bank's total and average loans, investment securities, off-balance sheet commitments and over-the-counter (OTC) derivatives. The bank's total loans by type can be found in Note 4 of the accompanying financial statements. The following table provides an overview of the remaining contractual maturity of the bank's credit risk portfolio categorized by exposure at December 31, 2017:

		Due in	Due	after one			
	(	one year	year	through	Dı	ie after	
(dollars in thousands)		or less	five	e years	fiv	e years	Total
Loans	\$	15,607,505	\$	890,454	\$	587,218	\$ 17,085,177
Off-balance sheet commitments:							
Financial letters of credit		53,503		15,760		48	69,311
Performance letters of credit		5,188		96		208	5,492
Commercial letters of credit		3,931		2		-	3,933
Unfunded commitments		3,647,278		1,622,076		816,362	6,085,716
Investments		316,691		302,401		4,482,576	5,101,668
OTC Derivatives							
Interest rate caps		-		4		392	396
Pay fixed swaps		-		-		8,288	8,288
Total	\$	19,634,096	\$	2,830,793	\$	5,895,092	\$ 28,359,981

Refer to the Management's Discussion and Analysis for the percentage diversity of states underlying the bank's capital markets and other bank-owned loan portfolio as of December 31, 2017 reflected in the table on page 24.

Refer to Note 4 of the accompanying financial statements for amounts of impaired loans with or with no related allowance, loans in nonaccrual status and greater than 90 days past due, loans past due greater than 90 days and still accruing, the allowance at the end of each reporting period, charge-offs during the period, and changes in components of our allowance for credit losses.

## Counterparty Credit Risk and Credit Risk Mitigation

#### Credit Risk Mitigation Related to Derivatives

By using derivative instruments, the bank exposes itself to credit and market risk. The bank's derivative activities are monitored by its Asset-Liability Management Committee (ALCO) as part of the ALCO's bank asset/liability and treasury functions. The ALCO is responsible for approving hedging strategies that are developed through its analysis of data derived from financial simulation models and other internal and industry sources. The resulting hedging strategies are then incorporated into the bank's overall interest rate risk-management strategies.

If a counterparty fails to fulfill its performance obligations under a derivative contract, the bank's credit risk will equal the fair value gain of 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 maintains collateral agreements to limit exposure to agreed-upon thresholds. The bank deals with counterparties that have an investment grade or better credit rating from a major rating agency, and also monitors the credit standing of, and levels of exposure to, individual counterparties. Our over-the-counter derivative contracts require the bank or its counterparties to post cash or securities as collateral when the fair values of the derivatives change based on changes in interest rates. 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. The amount of collateral the bank would have to

provide if the bank's own creditworthiness deteriorated would be dependent upon the terms of the contract with the counterparty, including agreed-upon thresholds to limit exposure, and changes in interest rates. Refer to Note 15 of the accompanying financial statements for details on the notional, fair value, collateral held and credit ratings of the bank's derivative contracts. The bank did not hold any purchased credit derivatives for its own credit portfolio as of December 31, 2017.

#### Credit Risk Mitigation Related to Investments

Credit risk in our investment portfolio is largely mitigated by investing primarily in securities issued or guaranteed by the U.S. government or one of its agencies. At December 31, 2017, 47.8 percent of our \$5.14 billion investment portfolio consisted of securities that carry a full faith and credit guarantee of the U.S. government. Such securities include mortgage-backed securities issued by the Government National Mortgage Association (Ginnie Mae), Export-Import Bank of the United States and U.S. Treasury. The bank's investment portfolio consisted of 47.4 percent of securities issued by government agencies that carry the implicit backing of the U.S. government, including MBS issued by the Federal National Mortgage Association (Fannie Mae), the Federal Home Loan Mortgage Corporation (Freddie Mac) and Farmer Mac. Another 6.1 percent of our investment portfolio is made up of asset-backed investments and corporate debt which primarily represents the credit risk in the bank's investment portfolio.

Credit risk in our 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 us.

For each separately disclosed credit risk portfolio, see the following table for the total exposure that is covered by guarantees/credit derivatives, and the risk-weighted asset amount associated with that exposure. The bank did not hold eligible financial collateral for its loan, investment and derivative portfolios at December 31, 2017.

<i>(dollars in thousands)</i> Government Guaranteed Asset Type	90 [	Day Average	Risk Weighting	Risk-W Ame	eighted ount
Investments	\$	2,414,688	0%	\$	-
Loans		2,380	0%		
Total	\$	2,417,068	-	\$	-

## Securitizations

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 tranches;
- The performance of the securitization depends upon the performance of the underlying exposures or reference assets; and
- 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. We do not currently hold any credit-related re-securitization investments.

The bank currently only participates in credit-related securitizations as investors through the purchase of highly rated asset-backed securities (ABS) as included in its investment portfolio. The bank also holds securitization exposures through the purchase of U.S government and agency guaranteed securities. The bank has not transferred any exposures that it has originated or purchased from a third party in connection with a securitization of assets as of December 31, 2017, nor does it have any outstanding exposures that it intends to be securitized as of December 31, 2017. The bank did not recognize any gain or loss on securitized assets for the twelve months ended December 31, 2017. As of December 31, 2017, the bank did not retain any credit-related resecuritization exposures.

We are subject to liquidity risk with respect to our purchased securitization exposures. In volatile market conditions, it could be difficult to sell such investments, if the need arises, and the discounts from face value could likely be significant. In addition, because of the inherent uncertainty of determining the fair value of such investments that do not have a readily available market value during volatile market conditions, the fair value of our investments may differ significantly from the values that would have been used had a ready market existed for the investments. The bank monitors its purchased ABS holdings on an ongoing basis, reviewing monthly credit performance metrics against outstanding credit enhancements, monitoring issuer and servicer performance, and tracking relevant ABS market conditions and credit spreads.

Below is an overview of our purchased securitization exposures held as of December 31, 2017, by exposure type and categorized by risk weighting band and risk-based capital approach:

Exposure						
Risk-Based Capital	Amount					
Approach	(dollars in thousands)	Risk Weighted				
	· · · ·					
Standardized Risk Weight	\$2,012,484	0%				
Standardized Risk Weight	2,395,248	20%				
Gross-up	47,914	129%				
	Approach Standardized Risk Weight Standardized Risk Weight	Risk-Based Capital Approach     Amount (dollars in thousands)       Standardized Risk Weight     \$2,012,484       Standardized Risk Weight     2,395,248				

## Equities

We are a limited partner in certain Rural Business Investment Companies (RBICs) for various relationship and strategic reasons. These RBICs facilitate equity and debt investments in agriculturerelated businesses that create growth and job opportunities in rural America. There have been no sales or liquidations of these investments during the period. These investments are accounted for under the equity method as the bank is considered to have significant influence. These investments are not publicly traded and the book value reflects fair value.

		Life-to-Date Gains
	Disclosed in	(Losses) Recognized in
(dollars in thousands)	Other Assets	Retained Earnings*
RBICs	\$11,789	\$376

\*Retained earnings is included in common equity tier 1 and total capital ratios

## Interest Rate Risk

Asset/liability management is the bank's process for directing and controlling the composition, level and flow of funds related to the bank's and district's interest-rate-sensitive assets and liabilities. The bank is able to manage the balance sheet composition by using various debt issuance strategies and hedging transactions to match its asset cash flows. Management's objective is to generate adequate and stable net interest income in a changing interest rate environment.

The bank uses a variety of techniques to manage its financial exposure to changes in market interest rates. These include monitoring the difference in the maturities or repricing cycles of interest-rate-sensitive assets and liabilities; simulating changes in net interest income under various interest rate scenarios; and monitoring the change in the market value of interest-rate-sensitive assets and liabilities under various interest rate scenarios.

The interest rate risk inherent in a district association's loan portfolio is substantially mitigated through its funding relationship with the bank. The bank manages district interest rate risk through its direct loan pricing and funding processes. Under the Farm Credit Act of 1971, as amended, a district association is obligated to borrow only from the bank unless the bank approves borrowing from other funding sources. An association's indebtedness to the bank, under a general financing agreement between the bank and the association, represents demand borrowings by the association to fund the majority of its loan advances to association members and is secured by the total assets of the association.

The bank's net interest income is determined by the difference between income earned on loans and investments and the interest expense paid on funding sources, typically Systemwide bonds, medium-term notes, discount notes and subordinated debt. The bank's level of net interest income is affected by both changes in market interest rates and timing differences in the maturities or repricing cycles of interest-rate-sensitive assets and liabilities.

Depending upon the direction and magnitude of changes in market interest rates, the bank's net interest income may be affected either positively or negatively by the mismatch in the maturity or the repricing cycle of interest-rate-sensitive assets and liabilities.

The bank maintains a loan pricing philosophy that loan rates should be based on competitive market rates of interest. The district associations offer a wide variety of products, including LIBOR- and primeindexed variable-rate loans and loans with fixed-rate terms ranging from under one year to 30 years. The interest rates on these loans are directly related to the bank's cost to issue debt in the capital markets and a credit spread added for borrower risk.

The bank offers an array of loan programs to associations that are designed to meet the needs of the associations' borrowers. These loan programs have varying repayment terms, including fixed and level principal payments, and a choice of payment frequencies, such as monthly, quarterly, semi-annual and annual payments. Additionally, the bank offers a choice of prepayment options to meet customer needs.

Refer to the net interest income and market value of equity table in the Management's Discussion and Analysis on page 28, which sets forth the bank's projected sensitivity to interest rate movements as prescribed by policy as of December 31, 2017, based on the bank's interest-earning assets and interest-bearing liabilities at December 31, 2017.