



CROGHAN

BANCSHARES, INC.



2018 ANNUAL REPORT

A MESSAGE FROM CEO KENDALL RIEMAN



Now that the leadership change is complete, I have the privilege as the new President and CEO of Croghan Colonial Bank to announce that 2018 was an excellent year. Your company achieved record profit by exceeding \$12 Million in net income and performed well above our bank peer group.

As mentioned, in 2018, net income surpassed \$12 Million which was well above the previous high mark of \$10.2 Million in 2017. This represents a 17% increase over the previous high. Several areas helped drive record net income including an increase in net interest income after provision expense, stable non-interest expense, and a reduction in income tax expense. The bank's net interest income increase was helped in part by the Federal Reserve Bank during 2018 as it increased managed rates allowing loan yields on both new and repricing loans to rise. An increase in loan balances also added to the increase in net interest income. Non-interest expenses were virtually unchanged year over year. The reduction in the corporate tax rate reduced our federal income taxes by \$724,000 compared to the previous year's tax expense, which certainly helped the bottom line for the company.

Asset growth, while positive, was lower than what we would like. We are committed to growing assets that add to the long-term success of the company while holding to the conservative risk culture that has been a hallmark at Croghan. While we search for opportunities to grow, we will continue to pursue strong financial performance so that we can continue to be a reliable resource for our communities, employees, and shareholders.

I believe it is safe to say that across the board the banking industry is thriving. Most banks are producing good financial

performances helped by a continued period of very good credit quality. The low levels of credit losses are thanks in part to a robust job market, strong company balance sheets, and an economy that has been doing quite well for a long period of time. While we do not know how long this business environment will last, we continue to push ourselves to improve what we are doing. If we are constantly improving, we will be better prepared for whatever business environment comes our way.

Currently, we are working on ways to improve our product lines to better utilize the latest technology and products that are coming into the banking marketplace. Part of the way we improve is to challenge ourselves to improve the way we interact with our clients and the speed and convenience in delivering the products and services they want and need. We must also allow them access to bank whenever and wherever they want. Our client focus requires us to constantly evaluate investments in technology to support existing customers while continuing to attract our younger demographic. Specifically, we are excited to roll out some new products throughout 2019 including the latest person to person payment platform, new online tools, and updated mobile products.

In closing, I am grateful for the trust shown to me in being named President and CEO. Many thanks to Rick Robertson for his past leadership at Croghan and we wish him well. I am very excited to be a part of the future of Croghan and look forward to continuing to add to the success we are enjoying.

Thank you for your support and please share our great story to friends and neighbors.



Kendall W. Rieman
President and CEO

MANAGEMENT TEAM CROGHAN COLONIAL BANK

Kendall Rieman

President/Chief Executive Officer

Dan Schloemer

Executive Vice President/Chief Lending Officer

Carrie Dickinson

Senior Vice President/Chief Credit Officer

Steve VanDette

Senior Vice President/Commercial Loan Officer

Jodi Albright

Vice President/Main Office Manager

Chuck Barteck

Vice President/Retail Sales Manager

Brad Elfring

Vice President/Senior Financial Officer

Missy Walker

Vice President/Retail Operations Manager

Laura Whipple

Vice President/Human Resource Manager

Rick Robertson

Chairman

CROGHAN BANCSHARES, INC.

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Investor Relations

Croghan Bancshares, Inc.
Amy LeJeune
323 Croghan Street, Fremont, OH 43420
P: 419-332-7301 | 888-276-4426 | croghan.com

Availability of More Information

To obtain a free copy of the Corporation's Annual Report for the year ended December 31, 2018, or for other information, contact us by one of the methods noted above.

Annual Meeting

The Annual Meeting of Shareholders:

WHEN: Tuesday, May 14, 2019
1:00 pm Eastern Time

WHERE: Terra State Community College
Neeley Conference Center
2830 Napoleon Road
Fremont, OH 43420

CROGHAN BANCSHARES, INC.

DESCRIPTION OF THE CORPORATION

Croghan Bancshares, Inc. ("Croghan"), an Ohio corporation, is a financial holding company incorporated in 1983 with \$847,552,000 in total assets as of December 31, 2018. Croghan owns all of the outstanding shares of The Croghan Colonial Bank ("Bank"), an Ohio state-chartered bank incorporated in 1888 and headquartered in Fremont, Ohio, and Croghan Risk Management Inc., a captive insurance company, incorporated in 2016.

The Bank offers a diverse range of commercial and retail banking services through its 17 banking centers located in Bellevue, Clyde, Curtice, Fremont, Green Springs, Monroeville, Norwalk, Oak Harbor, Oregon, Port Clinton, and Tiffin, Ohio, as well as one Loan Production office located in Maumee, Ohio. Products are comprised of traditional banking services such as consumer, commercial, agricultural and real estate loans, personal and business checking accounts, savings accounts, time deposit accounts, safe deposit box services, and trust department services. Investment products bearing no FDIC insurance are offered through the Bank's Trust and Investment Services Division.

MARKET PRICE AND DIVIDENDS ON COMMON SHARES

Croghan's common shares are quoted on the OTCQX under the symbol "CHBH." The following shows the range of high and low price quotations, as reported on the OTCQX, for Croghan's common shares for each quarterly period during 2018 and 2017. OTCQX quotations reflect inter-dealer prices, without mark-up, mark-down, or commission and may not necessarily represent actual transactions.

	2018		2017	
	Low	High	Low	High
First Quarter	\$49.34	\$54.65	\$42.75	\$47.50
Second Quarter	52.10	58.75	45.50	47.50
Third Quarter	55.60	59.25	45.30	47.50
Fourth Quarter	49.30	58.25	47.00	52.55

Net income, basic net income per share data, and dividends declared by Croghan on its common shares during the past two years are as follows (dollars in thousands, except per share data):

2018	Net income	Basic net income per share	Dividend per share
First quarter	\$ 2,946	\$ 1.29	\$.39
Second quarter	3,216	1.41	.40
Third quarter	2,964	1.29	.42
Fourth quarter	<u>2,876</u>	<u>1.26</u>	<u>.45</u>
Total	<u>\$12,002</u>	<u>\$5.25</u>	<u>\$1.66</u>
2017	Net income	Basic net income per share	Dividend per share
First quarter	\$ 2,331	\$ 1.02	\$.36
Second quarter	2,605	1.14	.37
Third quarter	2,701	1.18	.37
Fourth quarter	<u>2,612</u>	<u>1.15</u>	<u>.38</u>
Total	<u>\$10,249</u>	<u>\$4.49</u>	<u>\$1.48</u>

The ability of Croghan to declare and pay dividends on its common shares is dependent, in large part, on dividends received from the Bank. The ability of the Bank to pay dividends is subject to certain legal and regulatory limitations described in Note 17 to the consolidated financial statements contained in the Annual Report.

CROGHAN BANCSHARES, INC.

THREE YEAR SUMMARY OF SELECTED FINANCIAL DATA

	Years ended December 31,		
	2018	2017	2016
	(Dollars in thousands, except share data)		
Statements of operations:			
Total interest income	\$34,950	\$33,173	\$31,848
Total interest expense	<u>2,887</u>	<u>2,072</u>	<u>2,340</u>
Net interest income	32,063	31,101	29,508
Provision for loan losses	<u>570</u>	<u>600</u>	<u>675</u>
Net interest income, after provision for loan losses	31,493	30,501	28,833
Total non-interest income	6,176	6,166	6,418
Total non-interest expenses	<u>23,509</u>	<u>23,536</u>	<u>23,270</u>
Income before federal income taxes	14,160	13,131	11,981
Federal income taxes	<u>2,158</u>	<u>2,882</u>	<u>2,893</u>
Net income	<u>\$12,002</u>	<u>\$10,249</u>	<u>\$ 9,088</u>
Per share of common stock:			
Net income - Basic	\$ 5.25	\$ 4.49	\$ 3.98
Net income - Diluted	5.25	4.48	3.98
Dividends	1.66	1.48	1.42
Book value	50.45	47.64	44.61
Tangible book value	<u>40.07</u>	<u>37.06</u>	<u>33.73</u>
Average shares of common stock outstanding	<u>2,284,158</u>	<u>2,284,145</u>	<u>2,281,450</u>
Year-end balances:			
Loans, net	\$608,325	\$584,819	\$546,977
Securities	160,108	179,955	194,317
Total assets	847,552	843,037	819,566
Deposits	672,973	678,138	661,045
Stockholders' equity	<u>114,970</u>	<u>108,866</u>	<u>101,751</u>
Selected ratios:			
Net yield on average interest-earning assets	4.22%	4.23%	4.09%
Return on average assets	1.45	1.24	1.13
Return on average stockholders' equity	10.67	9.67	8.92
Net loan charge-offs as a percent of average outstanding net loans	.04	.03	.06
Allowance for loan losses as a percent of year-end loans	.91	.88	.87
Stockholders' equity as a percent of total year-end assets	13.56	12.91	12.42
Cash dividends declared as a percent of net income	31.58	32.99	35.63
Number of stockholders of record	957	995	1,017
Number of full-time equivalent employees	203	205	208

To the Board of Directors
Croghan Bancshares, Inc.

We have audited the accompanying consolidated financial statements of Croghan Bancshares, Inc. and its subsidiaries, which comprise the consolidated balance sheet as of December 31, 2018 and 2017 and the related consolidated statements of income, comprehensive income, stockholders' equity, and cash flows for the years then ended, and the related notes to the consolidated financial statements.

Management's Responsibility for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of these consolidated financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We conducted our audits 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 consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

To the Board of Directors
Croghan Bancshares, Inc.

Opinion

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Croghan Bancshares, Inc. and its subsidiaries as of December 31, 2018 and 2017 and the results of their operations and cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Plante & Moran, PLLC

February 7, 2019

CROGHAN BANCSHARES, INC.

CONSOLIDATED BALANCE SHEET

ASSETS	December 31,	
	2018	2017
(Dollars in thousands, except per share data)		
CASH AND CASH EQUIVALENTS	\$ 20,537	\$ 20,003
SECURITIES		
Available-for-sale, at fair value	154,234	174,081
Restricted stock	<u>5,874</u>	<u>5,874</u>
Total securities	<u>160,108</u>	<u>179,955</u>
LOANS	613,885	590,036
Less: Allowance for loan losses	<u>5,560</u>	<u>5,217</u>
Net loans	<u>608,325</u>	<u>584,819</u>
PREMISES AND EQUIPMENT, NET	10,102	10,054
CASH SURRENDER VALUE OF LIFE INSURANCE	17,873	17,591
GOODWILL	22,416	22,416
CORE DEPOSIT INTANGIBLE ASSETS, NET	1,242	1,771
ACCRUED INTEREST RECEIVABLE	2,985	2,969
OTHER REAL ESTATE OWNED AND OTHER REPOSSESSED ASSETS	170	248
OTHER ASSETS	<u>3,794</u>	<u>3,211</u>
TOTAL ASSETS	<u>\$847,552</u>	<u>\$843,037</u>
LIABILITIES AND STOCKHOLDERS' EQUITY		
LIABILITIES		
Deposits:		
Demand, non-interest bearing	\$197,961	\$192,605
Savings, NOW, and Money Market deposits	350,422	359,449
Time	<u>124,590</u>	<u>126,084</u>
Total deposits	672,973	678,138
Federal funds purchased and securities sold under repurchase agreements	36,973	28,139
Borrowed funds	17,222	22,858
Dividends payable	1,026	868
Other liabilities	<u>4,388</u>	<u>4,168</u>
Total liabilities	<u>732,582</u>	<u>734,171</u>
STOCKHOLDERS' EQUITY		
Common stock, \$12.50 par value. Authorized 6,000,000 shares; issued 2,506,208 shares in 2018 and 2017	31,328	31,328
Surplus	13,070	13,122
Retained earnings	79,104	71,080
Accumulated other comprehensive (loss) income	(466)	954
Treasury stock, 227,298 shares in 2018 and 221,121 in 2017, at cost	<u>(8,066)</u>	<u>(7,618)</u>
Total stockholders' equity	<u>114,970</u>	<u>108,866</u>
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	<u>\$847,552</u>	<u>\$843,037</u>

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

CROGHAN BANCSHARES, INC.

CONSOLIDATED STATEMENT OF INCOME

	Year ended December 31,	
	2018	2017
	(Dollars in thousands, except per share data)	
INTEREST INCOME		
Loans, including fees	\$ 30,049	\$28,148
Securities:		
Obligations of U.S. Government agencies and corporations	1,616	1,584
Obligations of states and political subdivisions	2,826	3,050
Other	340	310
Deposits in other banks	<u>119</u>	<u>81</u>
Total interest income	<u>34,950</u>	<u>33,173</u>
INTEREST EXPENSE		
Deposits	2,700	1,945
Other borrowings	<u>187</u>	<u>127</u>
Total interest expense	<u>2,887</u>	<u>2,072</u>
Net interest income	32,063	31,101
PROVISION FOR LOAN LOSSES	<u>570</u>	<u>600</u>
Net interest income, after provision for loan losses	<u>31,493</u>	<u>30,501</u>
NON-INTEREST INCOME		
Trust income	1,857	1,713
Service charges on deposit accounts	2,076	2,197
Gain on sale of loans	667	630
(Loss) gain on sale of securities	(45)	54
Other	<u>1,621</u>	<u>1,572</u>
Total non-interest income	<u>6,176</u>	<u>6,166</u>
NON-INTEREST EXPENSES		
Salaries, wages, and employee benefits	14,279	14,167
Occupancy of premises	1,117	1,100
Amortization of core deposit intangible assets	529	637
Other	<u>7,584</u>	<u>7,632</u>
Total non-interest expenses	<u>23,509</u>	<u>23,536</u>
Income before federal income taxes	14,160	13,131
FEDERAL INCOME TAXES	<u>2,158</u>	<u>2,882</u>
NET INCOME	<u>\$12,002</u>	<u>\$10,249</u>
NET INCOME PER SHARE		
Basic	<u>\$ 5.25</u>	<u>\$ 4.49</u>
Diluted	<u>\$ 5.25</u>	<u>\$ 4.48</u>

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

CROGHAN BANCSHARES, INC.

CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME

	Year ended December 31,	
	2018	2017
	(Dollars in thousands)	
NET INCOME	<u>\$12,002</u>	<u>\$10,249</u>
OTHER COMPREHENSIVE INCOME		
Unrealized (losses) gains on available-for-sale securities	(2,081)	248
Reclassification adjustments for securities losses (gains)		
included in income	<u>45</u>	<u>(54)</u>
Net unrealized (loss) gains	(2,036)	194
Income tax effect	<u>(428)</u>	<u>67</u>
Other comprehensive (loss) income	<u>(1,608)</u>	<u>127</u>
TOTAL COMPREHENSIVE INCOME	<u>\$10,394</u>	<u>\$ 10,376</u>

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

CROGHAN BANCSHARES, INC.

CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY

Year ended December 31, 2018 and 2017

	Common stock	Surplus	Retained earnings	Accumulated other comprehensive income (loss)	Treasury stock	Total
(Dollars in thousands, except per share data)						
BALANCE AT DECEMBER 31, 2016	<u>\$31,328</u>	<u>\$13,159</u>	<u>\$64,212</u>	<u>\$ 827</u>	<u>\$(7,775)</u>	<u>\$101,751</u>
Net income	-	-	10,249	-	-	10,249
Stock options exercised (3,561 shares from treasury)	-	(47)	-	-	136	89
Issuance of restricted stock (2,320 shares from treasury)	-	(88)	-	-	88	-
Other comprehensive income	-	-	-	127	-	127
Stock-based compensation expense	-	98	-	-	-	98
Purchase of treasury stock (1,456 shares)	-	-	-	-	(67)	(67)
Cash dividends declared, \$1.48 per share	-	-	(3,381)	-	-	(3,381)
BALANCE AT DECEMBER 31, 2017	<u>\$31,328</u>	<u>\$13,122</u>	<u>\$71,080</u>	<u>\$ 954</u>	<u>\$(7,618)</u>	<u>\$108,866</u>
Net income	-	-	12,002	-	-	12,002
Reclassification of certain deferred tax effects	-	-	(188)	188	-	-
Stock options exercised (3,625 shares from treasury)	-	(49)	-	-	140	91
Issuance of restricted stock (3,120 shares from treasury)	-	(120)	-	-	120	-
Other comprehensive income	-	-	-	(1,608)	-	(1,608)
Stock-based compensation expense	-	117	-	-	-	117
Purchase of treasury stock (12,922 shares)	-	-	-	-	(708)	(708)
Cash dividends declared, \$1.66 per share	-	-	(3,790)	-	-	(3,790)
BALANCE AT DECEMBER 31, 2018	<u>\$31,328</u>	<u>\$13,070</u>	<u>\$79,104</u>	<u>\$ (466)</u>	<u>\$(8,066)</u>	<u>\$114,970</u>

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

CROGHAN BANCSHARES, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

	Year ended December 31,	
	2018	2017
	(Dollars in thousands)	
CASH FLOWS FROM OPERATING ACTIVITIES		
Net income	\$ 12,002	\$ 10,249
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation	822	882
Loan discount accretion	(634)	(739)
Core deposit intangible amortization	529	637
Provision for loan losses	570	600
Deferred federal income taxes	100	345
(Gain) on sale of loans	(667)	(630)
Net (gain) loss on sale or write-down of other real estate owned	(3)	52
Increase in cash value of life insurance	(282)	(285)
Net amortization of security premiums and discounts	1,724	2,215
Stock-based compensation expense	117	98
Loss (gain) on sale of securities	45	(54)
Proceeds from sale of loans, net of originations	468	419
Increase in accrued interest receivable	(16)	(68)
Increase (decrease) in other assets	(153)	(101)
Increase (decrease) in other liabilities	<u>120</u>	<u>(144)</u>
Net cash provided by operating activities	<u>14,742</u>	<u>13,476</u>
CASH FLOWS FROM INVESTING ACTIVITIES		
Proceeds from maturities of securities	25,488	24,659
Proceeds from sales of available-for-sale securities	15,665	4,990
Purchases of available-for-sale securities	(25,113)	(17,255)
Proceeds from sale of other real estate owned	384	92
Proceeds from life insurance	-	421
Net increase in loans	(23,546)	(37,682)
Additions to premises and equipment	<u>(870)</u>	<u>(983)</u>
Net cash used in investing activities	<u>(7,992)</u>	<u>(25,758)</u>

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

CROGHAN BANCSHARES, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS (CONTINUED)

	Year ended December 31,	
	2018	2017
	(Dollars in thousands)	
CASH FLOWS FROM FINANCING ACTIVITIES		
Net (decrease) increase in deposits	\$ (5,165)	\$ 17,093
Increase (decrease) in federal funds purchased and securities sold under repurchase agreements	8,834	(8,324)
Proceeds from borrowings	17,000	22,500
Repayments of borrowings	(22,636)	(15,161)
Cash dividends paid	(3,632)	(3,334)
Cash used in purchase of treasury shares	(708)	(67)
Cash received from exercising options	91	89
Net cash (used in) provided by financing activities	<u>(6,216)</u>	<u>12,796</u>
NET INCREASE IN CASH AND CASH EQUIVALENTS	534	514
CASH AND CASH EQUIVALENTS AT BEGINNING OF YEAR	<u>20,003</u>	<u>19,489</u>
CASH AND CASH EQUIVALENTS AT END OF YEAR	<u>\$ 20,537</u>	<u>\$ 20,003</u>
SUPPLEMENTAL DISCLOSURES		
Cash paid during the year for:		
Interest	<u>\$ 2,780</u>	<u>\$ 2,069</u>
Federal income taxes	<u>\$ 1,788</u>	<u>\$ 3,115</u>
Non-cash operating and investing activity:		
Transfer of loans to other real estate owned	<u>\$ 303</u>	<u>\$ 190</u>

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

CROGHAN BANCSHARES, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Croghan Bancshares, Inc. (the "Corporation") was incorporated on September 27, 1983 in the State of Ohio. The Corporation is a financial holding company and has two wholly-owned subsidiaries, The Croghan Colonial Bank (the "Bank") and Croghan Risk Management, Inc (the "Captive"). The Corporation, through its subsidiaries, operates in one industry segment, the commercial banking industry. The Bank, an Ohio chartered bank organized in 1888, has its main office in Fremont, Ohio and has branch offices located in Bellevue, Clyde, Curtice, Fremont, Green Springs, Monroeville, Norwalk, Oak Harbor, Oregon, Port Clinton, and Tiffin Ohio, and a loan production office in Maumee, Ohio. The Bank's primary source of revenue is providing loans to clients primarily located in Huron, Lucas, Ottawa, Sandusky, Seneca, and Wood Counties. Such clients are predominantly small and middle-market businesses and individuals.

In August of 2016, the Corporation became a financial holding company within the meaning of the Bank Holding Company Act of 1956 as amended, in order to provide the flexibility to take advantage of the expanded powers available to a financial holding company under the Act. The Bank is regulated and examined by the Ohio Division of Financial Institutions and the Federal Deposit Insurance Corporation. The activities of our bank subsidiary are also subject to other federal and state laws and regulations. The Corporation formed a Captive insurance company in August 2016. The Captive is located in Nevada and regulated by the State of Nevada Division of Insurance.

Significant accounting policies followed by the Corporation are presented below.

Use of Estimates

In preparing consolidated financial statements in conformity with generally accepted accounting principles, management is required to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities as of the date of the balance sheet and reported amounts of revenues and expenses during each reporting period. Actual results could differ from those estimates. The most significant estimates susceptible to significant change in the near term relate to the determination of the allowance for loan losses, valuation of goodwill and intangible assets, fair value of investment securities and other financial instruments, and the valuation of deferred taxes.

Principles of Consolidation

The consolidated financial statements include the accounts of the Corporation and its two wholly-owned subsidiaries, the Bank and the Captive. All significant intercompany balances and transactions have been eliminated in consolidation.

The Bank established a trust department in 1990 and the assets held by the Bank in fiduciary or agency capacities for its clients are not included in the consolidated balance sheets as such items are not assets of the Bank.

Cash and Cash Equivalents

For purposes of the consolidated statements of cash flows, cash and cash equivalents include cash on hand, amounts due from banks, and federal funds sold which mature overnight or within 90 days.

Restrictions on Cash

The Bank did not have a required minimum daily average of non-interest bearing cash on hand or on deposit with the Federal Reserve Bank at December 31, 2018 and as of December 31, 2017.

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Securities

The Bank has designated all its securities as available-for-sale. Such securities are carried at fair value, with unrealized gains and losses, net of applicable income taxes, on such securities recognized as a separate component of stockholders' equity.

The cost of debt securities is adjusted for amortization of premiums and accretion of discounts to the shorter of the call or maturity date. Such amortization and accretion is included in interest income from securities, principally using the interest method over the terms of the securities. Declines in the fair value of securities below their cost that are deemed to be other than temporary ("OTTI") are reflected in earnings as realized losses. Management evaluates securities for OTTI at least on a quarterly basis, and more frequently when economic or market conditions warrant such evaluation. Consideration is given to (1) the intent to sell the investment securities and whether it's more likely than not that the Corporation will be required to sell the investment securities prior to recovery, (2) the length of time and extent to which the fair value has been less than cost, and (3) the financial condition and near-term prospects of the issuer. Due to potential changes in conditions, it is at least reasonably possible that changes in management's assessment of OTTI will occur in the near term and that such changes could be material to the amounts reported in the Corporation's consolidated financial statements.

Investments in equity securities without readily determinable fair value are recorded at cost and adjusted for any observable changes in price. Impairment losses due to a decline in the value of the investment that is other than temporary are recognized when incurred. No impairment losses were recognized for 2018 and 2017.

Realized gains and losses on sales of securities are recorded on the trade date, using the specific identification method, and are included in non-interest income.

Restricted stock primarily consists of Federal Home Loan Bank of Cincinnati and Federal Reserve Bank of Cleveland stock. Such securities are carried at cost and evaluated for impairment on an annual basis. Members are required to own a certain amount of stock based on the level of borrowings and other factors and may invest in additional amounts.

Loans

Loans that management has the intent and ability to hold for the foreseeable future or until maturity or pay-off are stated at their outstanding principal balances, adjusted for charge-offs, the allowance for loan losses, and any deferred loan fees or costs on originated loans. Interest is accrued on the unpaid principal balance. Loan origination fees and certain direct origination costs are capitalized and recognized as an adjustment of the yield of the related loan.

The accrual of interest on real estate and commercial loans is discontinued at the time the loan is 90 days delinquent unless the credit is well-secured and in process of collection. Personal loans are typically charged-off no later than 120 days past due and credit card loans are typically charged-off no later than 180 days past due. All interest accrued but not collected for loans that are placed on nonaccrual or charged-off is reversed against interest income. The interest on nonaccrual loans is accounted for on the cash-basis or cost-recovery method, until qualifying for return to accrual. Loans are returned to accrual status when all the principal and interest amounts contractually due are brought current and future payments are reasonably assured.

Acquired Loans

Purchased loans acquired in a business combination are segregated into three types: pass rated loans with no discount attributable to credit quality, non-impaired loans with a discount attributable at least in part to credit quality, and impaired loans with evidence of significant credit deterioration.

- Pass rated loans (typically performing loans) are accounted for in accordance with Accounting Standards Codification (ASC) 310-20 "Nonrefundable Fees and Other Costs" as these loans do not have evidence of credit deterioration since origination.
- Non-impaired loans (typically past-due loans, special mention loans, and performing substandard loans) are accounted for in accordance with ASC 310-30 "Receivables - Loans and Debt Securities Acquired with Deteriorated Credit Quality" as they display at least some level of credit deterioration since origination.

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

• Impaired loans (typically substandard loans on non-accrual status) are accounted for in accordance with ASC 310-30 as they display significant credit deterioration since origination. In accordance with ASC 310-30, for both purchased non-impaired loans and purchased impaired loans, the difference between contractually required payments at acquisition and the cash flows expected to be collected is referred to as the non-accretable difference. This amount is not recognized as a yield adjustment or as a loss accrual or a valuation allowance. Furthermore, any excess of cash flows expected at acquisition over the estimated fair value is referred to as the accretable yield and is recognized into interest income over the remaining life of the loan when there is a reasonable expectation about the amount and timing of such cash flows. Increases in expected cash flows subsequent to the initial investment are recognized prospectively through adjustment of the yield on the loan over its remaining estimated life. Decreases in expected cash flows are recognized immediately as impairment. If the Bank does not have the information necessary to reasonably estimate cash flows to be expected, it may use the cost recovery method or cash basis method of income recognition. Valuation allowances on these impaired loans reflect only losses incurred after the acquisition.

Allowance for Loan Losses

The allowance for loan losses is established as losses are estimated to have occurred through a provision for loan losses charged to income. Loan losses are charged against the allowance when management believes the un-collectability of a loan balance is confirmed. Subsequent recoveries, if any, are credited to the allowance.

The allowance for loan losses is evaluated on a regular basis by management and is based upon management's periodic review of the collectability of the loans in light of historical experience, the nature and volume of the loan portfolio, adverse situations that may affect the borrower's ability to repay, estimated value of any underlying collateral and prevailing economic conditions. This evaluation is inherently subjective as it requires estimates that are susceptible to significant revision as more information becomes available.

The allowance consists of specific, general, and unallocated components. For loans that are classified as impaired, a specific reserve is established when the discounted cash flow (or collateral value or observable market price) of the impaired loan is lower than the carrying value of that loan. The general component covers classified (i.e., substandard or special mention) loans which are not impaired, as well as non-classified loans and is generally based on historical loss experience adjusted for qualitative factors. The unallocated component is maintained to cover economic and other external factors that could affect management's estimate of probable losses and considers the margin of imprecision inherent in the underlying assumptions used in the methodologies for estimating specific and general losses in the portfolio.

A loan is considered impaired when, based on current information and events, it is probable that the Bank will be unable to collect the scheduled payments of principal or interest when due according to the contractual terms of the loan agreement. Factors considered by management in determining impairment include payment status, collateral value, and the probability of collecting scheduled principal and interest payments when due. Loans that experience insignificant payment delays and payment shortfalls generally are not classified as impaired. Management determines the significance of payment delays and payment shortfalls on a case-by-case basis, taking into consideration all of the circumstances surrounding the loan and the borrower, including the length of the delay, the reasons for the delay, the borrower's prior payment record, and the amount of the shortfall in relation to the principal and interest owed. Impairment is measured on a loan by loan basis for commercial and construction loans by either the present value of expected future cash flows discounted at the loan's effective interest rate, the loan's obtainable market price, or the fair value of the collateral if the loan is collateral dependent.

Under certain circumstances, the Bank may provide borrowers relief through loan restructurings. A restructuring of debt constitutes a troubled debt restructuring (TDR) if the Bank, for economic or legal reasons related to the borrower's financial difficulties, grants a concession to the borrower that it would not otherwise consider. Concessions may include reduction of interest rates, extension of maturity dates, forgiveness of principal or interest due, or acceptance of other assets in full or partial satisfaction of the debt. TDR loans typically present an elevated level of credit risk as the borrowers are not able to perform according to the original contractual terms. Loans that are reported as TDRs are considered impaired and measured for impairment, as previously described. TDR loans that have performed as agreed under the restructured terms for a period of 12 months or longer may cease to be reported as a TDR loan. However, the loan continues to be individually evaluated for impairment.

Large groups of smaller balance homogeneous loans are collectively evaluated for impairment. Accordingly, the Bank does not separately identify individual consumer and residential mortgage loans for impairment disclosures.

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Premises and Equipment

Land is carried at cost. Premises and equipment is stated at cost, less accumulated depreciation. Depreciation is determined based on the estimated useful lives of the individual assets (typically 20 to 40 years for buildings and 3 to 10 years for equipment) and is computed primarily using the straight-line method. Upon the sale or disposition of the assets, the difference between the depreciated cost and proceeds is charged or credited to income.

Cash Surrender Value of Life Insurance

Cash surrender value of life insurance is equal to the cash surrender value of the underlying policies or the policy death proceeds, less any obligation to provide benefit to the insured beneficiaries, if that value is less than the cash surrender value. Income on the investments in the policies, net of insurance costs, is recorded as non-interest income.

Goodwill and Other Intangible Assets

Goodwill is not amortized, but rather is subject to impairment tests annually, or more frequently if triggering events occur and indicate potential impairment. The Corporation's annual impairment test was performed as of December 31, 2018. The Corporation has elected to perform a qualitative analysis that became acceptable as a result of ASU 2011-08, *Testing Goodwill for Impairment*. As a result of performing the qualitative analysis, the Corporation determined that it was not more likely than not that goodwill was impaired at December 31, 2018. The Corporation determined no triggering events occurred subsequent to the date of the annual impairment test that indicate goodwill was impaired as of December 31, 2018.

Core deposit intangible assets arising from previous branch acquisitions are being amortized over ten years using the sum of the year's digits amortization method.

Estimated future amortization of core deposit intangible assets is as follows: 2019, \$427,000; 2020, \$332,000; 2021, \$244,000; 2022, \$160,000; 2023, \$79,000.

Other Real Estate Owned

Assets acquired through or in lieu of foreclosure are initially recorded at fair value, less estimated costs to sell, and any loan balance in excess of fair value is charged to the allowance for loan losses. Subsequent valuations are periodically performed and any further write-downs are included in other operating expenses, as are gains or losses upon sale and expenses related to maintenance of the properties.

Servicing

Mortgage servicing rights ("MSRs") are recognized as an asset when acquired through sale of loans. Capitalized servicing rights are reported in other assets and amortized to expense in proportion to, and over the period of, the estimated future net servicing income of the underlying loans. MSRs are evaluated for impairment by a third party on an annual basis and based upon the estimated fair value of the rights as compared to amortized cost. The fair value of MSRs was estimated by calculating the present value of estimated future net servicing cash flows, taking into consideration expected prepayment rates, discount rates, servicing costs, and other economic factors that are based on current market conditions. The prepayment rates and the discount rates are the most significant factors affecting valuation of the MSRs. Increases in mortgage loan prepayments reduce estimated future net servicing cash flows because the life of the underlying loan is reduced. Impairment is recognized through a valuation allowance to the extent that fair value is less than the capitalized amount.

Servicing fee income is recorded for fees earned for servicing loans and is included in noninterest income, net of amortization of MSRs.

Federal Funds Purchased and Securities Sold under Repurchase Agreements

Securities sold under agreements to repurchase with customers and federal funds purchased have scheduled maturities of one year or less. Securities sold under repurchase agreements are collateralized financing transactions and the obligations to repurchase securities sold are reflected as a liability in the accompanying consolidated balance sheet. The dollar amount of the securities underlying the agreements remain in the Corporation's investment security portfolio.

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Off-Balance Sheet Credit Related Financial Instruments

In the ordinary course of business, the Bank has entered into commitments to extend credit, including commitments under credit card arrangements, commercial letters of credit, and standby letters of credit. Such financial instruments are recorded when they are funded.

Transfers of Financial Assets

Transfers of financial assets are accounted for as sales, when control over the assets has been surrendered. Control over transferred assets is deemed to be surrendered when (1) the assets have been isolated from the Bank, (2) the transferee obtains the right (free of conditions that constrain it from taking advantage of that right) to pledge or exchange the transferred assets, and (3) the Bank does not maintain effective control over the transferred assets through an agreement to repurchase them before their maturity.

The transfer of a participating interest in an entire financial asset must also meet the definition of a participating interest. A participating interest in a financial asset has all of the following characteristics: (1) from the date of transfer, it must represent a proportionate (pro rata) ownership interest in the financial asset, (2) from the date of transfer, all cash flows received, except any cash flows allocated as any compensation for servicing or other services performed, must be divided proportionately among participating interest holders in the amount equal to their share ownership, (3) the rights of each participating interest holder must have the same priority, and (4) no party has the right to pledge or exchange the entire financial asset unless all participating interest holders agree to do so.

Supplemental Retirement Benefits

Annual provisions are made for the estimated liability for accumulated supplemental retirement benefits under agreements with various officers and employees. These provisions are determined based on the terms of the agreements, as well as certain assumptions, including estimated service periods and discount rates.

Advertising Costs

All advertising costs are expensed as incurred.

Federal Income Taxes

Deferred income tax assets and liabilities are determined using the liability (or balance sheet) method. Under this method, deferred income taxes are provided on temporary differences between financial statement and income tax reporting. Temporary differences are differences between the amounts of assets and liabilities reported for financial statement purposes and their tax bases. Deferred tax assets are recognized for temporary differences that will be deductible in future years' tax returns and for operating loss and tax credit carryforwards. Deferred tax assets are reduced by a valuation allowance if it is deemed more likely than not that some or all of the deferred tax assets will not be realized. Deferred tax liabilities are recognized for temporary differences that will be taxable in future years' tax returns. Benefits from tax positions taken or expected to be taken in a tax return are not recognized if the likelihood that the tax position would be sustained upon examination by a taxing authority is considered to be 50% or less. Interest and penalties resulting from the filing of income tax returns is a component of income tax expenses.

The Bank is not currently subject to state and local income taxes.

Comprehensive Income

Recognized revenue, expenses, and gains and losses are included in net income. Although certain changes in assets and liabilities, such as unrealized gains and losses on available-for-sale securities, are reported as a separate component of the equity section of the balance sheet, such items, along with net income, are components of comprehensive income.

Treasury Stock

Common shares repurchased are recorded at cost. Cost of shares reissued is determined using the first-in, first-out method.

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Per Share Data

Basic net income per share is computed based on the weighted average number of shares of common stock outstanding during each year. Diluted net income per share reflects additional common shares that would have been outstanding if dilutive potential common shares had been issued. Potential common shares that may be used by the Corporation relate solely to outstanding stock options and are determined using the treasury stock method.

The weighted average number of shares outstanding for the years ended December 31, 2018 and 2017 follows:

	2018	2017
Basic	<u>2,284,158</u>	<u>2,284,145</u>
Diluted	<u>2,287,033</u>	<u>2,288,317</u>

Dividends per share are based on the number of shares outstanding at the declaration date.

Subsequent Events

The financial statements and related disclosures include the evaluation of events up through and including February 7, 2019, which is the date the consolidated financial statements were available to be issued.

NOTE 2 - NEW ACCOUNTING PRONOUNCEMENTS

In May 2014, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) No. 2014-09, *Revenue from Contracts with Customers (Topic 606)*, which will supersede the current revenue recognition requirements in Topic 605, Revenue Recognition. The ASU is based on the principle that revenue is recognized to depict the transfer of 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. The ASU also requires additional disclosure about the nature, amount, timing, and uncertainty of revenue and cash flows arising from customer contracts, including significant judgments and changes in judgments and assets recognized from costs incurred to obtain or fulfill a contract. The ASU permits application of the new revenue recognition guidance to be applied using one of two retrospective application methods. Interest income and interest expense are not within the scope of the ASU. The Corporation completed its overall assessment of revenue streams and review of related contracts potentially affected by the ASU, including trust and asset management fees, deposit related fees, interchange fees, and merchant income. Based on this assessment, the Corporation concluded that ASU 2014-09 did not materially change the method in which the Corporation currently recognizes revenue for these revenue streams. The Corporation adopted ASU 2014-09 and its related amendments for the year ending December 31, 2018, utilizing the modified retrospective approach. Since there was no net income impact upon adoption of the new guidance, a cumulative effect adjustment to beginning of the year retained earnings was not deemed necessary.

In January 2016, the FASB issued ASU No. 2016-01, *Recognition and Measurement of Financial Assets and Financial Liabilities*. The ASU covers various changes to the accounting, measurement, and disclosures related to certain financial instruments, including requiring equity investments to be accounted for at fair value with changes recorded through earnings, the use of the exit price when measuring fair value, and disaggregation of financial assets and liabilities by category for disclosure purposes. The adoption of ASU No. 2016-01 for the year ending December 31, 2018, did not have a material impact on the Corporation's consolidated financial statements. Also in conjunction with the adoption, the Corporation's fair value measurement of financial instruments was based upon an exit price notion as required in ASU 2016-01. The guidance was applied on a prospective approach resulting in prior-periods no longer being comparable.

In June 2016, the FASB issued ASU No. 2016-13, *Financial Instruments - Credit Losses: Measurement of Credit Losses on Financial Instruments*. The ASU includes increased disclosures and various changes to the accounting and measurement of financial assets including the Corporation's loans and available-for-sale and held-to-maturity debt securities. Each financial asset presented on the balance sheet would have a unique allowance for credit losses valuation account that is deducted from the amortized cost basis to present the net carrying value at the amount expected to be collected on the financial asset. The amendments in this ASU also eliminate the probable initial recognition threshold in current GAAP and instead, reflect an entity's current estimate of all expected credit losses using reasonable and supportable forecasts. The new credit loss guidance will be effective for the Corporation's year ending December 31, 2021. Upon adoption, the ASU will be applied using a modified retrospective transition method to the beginning of the first reporting period in which the guidance is effective. A prospective transition approach is required for debt securities for which an other-than-temporary impairment had been recognized before the effective date.

NOTE 2 - NEW ACCOUNTING PRONOUNCEMENTS (CONTINUED)

Early adoption for all institutions is permitted for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. We expect the standard to have a significant effect on the Corporation's consolidated financial statements as credit losses will be accelerated with the elimination of the probable threshold for initial recognition.

In February 2016, the FASB issued ASU 2016-02, *Leases*, which will supersede the current lease requirements in ASC 840. The ASU requires lessees to recognize a right-of-use asset and related lease liability for all leases, with a limited exception for short-term leases. Leases will be classified as either finance or operating, with the classification affecting the pattern of expense recognition in the statement of operations. Currently, leases are classified as either capital or operating, with only capital leases recognized on the balance sheet. The reporting of lease-related expenses in the statements of operations and cash flows will be generally consistent with the current guidance. The new lease guidance will be effective for the Corporation's year ending December 31, 2019 and will be applied using a modified retrospective transition method to the beginning of the earliest period presented. Adoption of this standard is not expected to have a material effect on the consolidated financial statements.

In February 2018, the FASB issued ASU 2018-02, *Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income*, which provides guidance on accounting for the certain impacts of the passage of the Tax Cuts and Jobs Act, which was enacted in December 2017. The guidance provides the Corporation with the option to reclassify the tax effects that were stranded in accumulated other comprehensive income as a result of the rate change in the Tax Cuts and Jobs Act from accumulated other comprehensive income to retained earnings. The Corporation adopted the provisions of the ASU for the year ended December 31, 2018, resulting in an \$188,000 reclassification from accumulated other comprehensive income to retained earnings.

NOTE 3 - CASH AND CASH EQUIVALENTS

Cash and cash equivalents as of December 31, 2018 and 2017 were as follows (dollars in thousands):

	2018	2017
Cash and due from banks	\$18,823	\$18,286
Interest-bearing deposits in other banks	<u>1,714</u>	<u>1,717</u>
Total	<u>\$20,537</u>	<u>\$20,003</u>

NOTE 4 - SECURITIES

The amortized cost and fair value of securities as of December 31, 2018 and 2017 were as follows (dollars in thousands):

	2018		2017	
	Amortized cost	Fair value	Amortized cost	Fair value
Available-for-sale:				
Obligations of U.S. Government agencies and corporations	\$ 64,804	\$ 63,700	\$ 76,170	\$ 75,586
Obligations of states and political subdivisions	89,670	90,184	96,115	98,145
Other	<u>350</u>	<u>350</u>	<u>350</u>	<u>350</u>
Total available-for-sale	154,824	154,234	172,635	174,081
Restricted stock	<u>5,874</u>	<u>5,874</u>	<u>5,874</u>	<u>5,874</u>
Total	<u>\$160,698</u>	<u>\$160,108</u>	<u>\$178,509</u>	<u>\$179,955</u>

NOTE 4 - SECURITIES (CONTINUED)

A summary of gross unrealized gains and losses on securities at December 31, 2018 and 2017 follows (dollars in thousands):

	2018		2017	
	Gross unrealized gains	Gross unrealized losses	Gross unrealized gains	Gross unrealized losses
Available-for-sale:				
Obligations of U.S. Government agencies and corporations	\$ 109	\$1,213	\$ 238	\$ 822
Obligations of states and political subdivisions	<u>931</u>	<u>417</u>	<u>2,221</u>	<u>191</u>
Total available-for-sale	<u>\$ 1,040</u>	<u>\$1,630</u>	<u>\$ 2,459</u>	<u>\$ 1,013</u>

The amortized cost and fair value of securities at December 31, 2018, by contractual maturity, are shown below. Actual maturities may differ from contractual maturities because borrowers may have the right to call or prepay obligations with or without call or prepayment penalties (dollars in thousands).

	<u>Available-for-sale</u>	
	<u>Amortized cost</u>	<u>Fair value</u>
Due in one year or less	\$ 29,235	\$ 29,333
Due after one year through five years	59,854	59,851
Due after five years through ten years	64,480	63,802
Due after ten years	905	898
Other equity security having no stated maturity date	<u>350</u>	<u>350</u>
Total	<u>\$ 154,824</u>	<u>\$ 154,234</u>

Securities with a carrying value of \$111,016,000 at December 31, 2018 and \$122,884,000 at December 31, 2017 were pledged to secure public deposits and for other purposes as required or permitted by law. Securities with a carrying value of \$36,725,000 at December 31, 2018 and \$35,054,000 at December 31, 2017 were pledged to secure accounts with overnight sweep repurchase agreements.

Restricted stock primarily consists of investments in Federal Home Loan Bank of Cincinnati and Federal Reserve Bank of Cleveland stock. The Bank's investment in Federal Home Loan Bank of Cincinnati stock amounted to \$3,342,000 at December 31, 2018 and December 31, 2017. The Bank's investment in Federal Reserve Bank of Cleveland stock amounted to \$2,337,000 at December 31, 2018 and December 31, 2017.

Gross gains realized from sales of securities available-for-sale amounted to \$41,000 in 2018 and \$60,000 in 2017 with the income tax provision applicable to such gains amounting to \$9,000 in 2018 and \$21,000 in 2017. Gross realized losses from sales of securities available-for-sale amounted to \$86,000 in 2018 and \$6,000 in 2017 with the income tax provision applicable to such losses amounting to \$18,000 in 2018 and \$2,000 in 2017.

NOTE 4 - SECURITIES (CONTINUED)

The following presents gross unrealized losses and fair value of securities, aggregated by investment category and length of time that individual securities have been in a continuous unrealized loss position at December 31, 2018 and 2017 (dollars in thousands):

	<u>Securities in a continuous unrealized loss position</u>					
	Less than 12 months		12 months or more		Total	
	Unrealized losses	Fair value	Unrealized losses	Fair value	Unrealized losses	Fair value
2018						
Obligations of U.S. Government Corporations agencies and	\$ 119	\$ 17,682	\$1,094	\$ 40,673	\$ 1,213	\$ 58,355
Obligations of states and political subdivisions	<u>47</u>	<u>9,497</u>	<u>370</u>	<u>17,754</u>	<u>417</u>	<u>27,251</u>
Total temporarily impaired securities	<u>\$ 166</u>	<u>\$ 27,179</u>	<u>\$1,464</u>	<u>\$ 58,427</u>	<u>\$ 1,630</u>	<u>\$ 85,606</u>
2017						
Obligations of U.S. Government Corporations agencies and	\$ 264	\$ 30,100	\$ 558	\$ 28,034	\$ 822	\$ 58,134
Obligations of states and political subdivisions	<u>95</u>	<u>10,555</u>	<u>96</u>	<u>5,802</u>	<u>191</u>	<u>16,357</u>
Total temporarily impaired securities	<u>\$ 359</u>	<u>\$ 40,655</u>	<u>\$ 654</u>	<u>\$ 33,836</u>	<u>\$ 1,013</u>	<u>\$ 74,491</u>

At December 31, 2018, there were 108 securities in an unrealized loss position, with 75 being in a continuous unrealized loss position for twelve months or more. When evaluating these securities for impairment, management considers the issuer's financial condition, whether the securities are issued by federally-sponsored government agencies or political subdivisions, whether downgrades by the bond rating agencies have occurred, industry analyst reports, and volatility in the bond market. Management has concluded that the unrealized losses as of December 31, 2018 were primarily the result of customary and expected fluctuations in the bond market related to changes in interest rates. As management has the ability and intent to hold debt securities until recovery and meets the more likely than not requirement regarding the ability to hold securities for a period of time sufficient to allow for any anticipated recovery in fair value for securities classified as available-for-sale, all security impairments as of December 31, 2018 are considered temporary.

NOTE 5 - LOANS

Most of the Bank's lending activity is with clients primarily located within Huron, Lucas, Ottawa, Sandusky, Seneca, and Wood Counties. Credit concentrations, as determined using the North American Industry Classification System, that exceeded 25% of tier one capital at December 31, 2018 and 2017, follows (dollars in thousands):

Category	Year ended December 31	
	2018	2017
Residential and Investment Properties	\$100,423	\$ 94,219
Nonresidential Investment Properties	150,837	140,440
Accommodation and Food Service	30,246	31,357
Construction	31,717	24,078
Manufacturing	28,876	28,482
Retail Trade	26,634	32,129
Health Care and Social Assistance	N/A	21,637

The construction industry concentration includes loans to residential and commercial contractors who construct or install roads, sewers, bridges, homes, hotels, motels, apartment or commercial buildings, electrical and plumbing infrastructure, and air comfort systems. These loans are generally secured by real property, equipment, and receivables. Repayment is expected from cash flow from providing such services. The accommodation and food service industry concentration includes loans for the construction, purchase, and operation of hotels, restaurants, lounges, and campgrounds. These loans are generally secured by real property and equipment. Repayment is expected from cash flow from providing accommodations and food service to tourists, primarily visiting the Lake Erie region. The retail trade industry concentration includes floor plan loans and other retail business loans, which are secured by real property. The health care and social assistance concentration includes elderly care facilities and offices for physicians, and are secured by real property.

The manufacturing industry concentration includes loans to local manufacturers who produce goods for a wide variety of industries, including chemical, automotive, and food processing. These loans are generally secured by real property, equipment, and receivables. Repayment is expected from cash flows generated from these operations. The Residential and Investment Property concentration includes loans to residential and apartment or buildings. These loans are generally secured by real property. Repayment is expected from personal cash flow or from providing such services. The Non-Residential Buildings concentration includes loans on office buildings, strip centers, or other industrial buildings. The residential investment property concentration includes 1-4 family housing and apartment 5 plus units. Residential and non-residential loans are generally secured by real property. Repayment is expected from rent or cash flow from operations in such services.

Commercial, construction, and agricultural real estate loans are subject to underwriting standards and processes similar to commercial and agricultural operating loans, in addition to those unique to real estate loans. These loans are viewed primarily as cash flow loans and secondarily as loans secured by real estate. Commercial and agricultural real estate lending typically involves higher loan principal amounts and the repayment of these loans is generally dependent on the successful operation of the property securing the loan or the business conducted on the property securing the loan. Loan-to-value is generally 75% of the cost or value of the assets. Appraisals on properties securing these loans are generally performed by appraisers approved by the Board of Directors. Because payments on commercial and agricultural real estate loans are often dependent on the successful operation or management of the properties, repayment of such loans may be subject to adverse conditions in the real estate market or the economy. Management monitors and evaluates commercial and agricultural real estate loans based on collateral and risk rating criteria. The Bank generally requires guarantees on these loans. The Bank's commercial and agricultural real estate loans are secured primarily by properties located in its primary market area.

Commercial and agricultural operating loans are underwritten based on the Bank's examination of current and projected cash flows to determine the ability of the borrower to repay their obligations as agreed. This underwriting standard includes the evaluation of cash flows of the borrower, underlying collateral, if applicable, and the borrower's ability to manage its business activities. The cash flows of borrowers and the collateral securing these loans may fluctuate in value after the initial evaluation. A first priority lien on the general assets of the business normally secures these types of loans. Loan-to-value limits vary and are dependent upon the nature and type of the underlying collateral and the financial strength of the borrower. Crop and hail insurance is recommended for most agricultural borrowers. Loans are generally guaranteed by the principal owner. The Bank's commercial and agricultural operating loan lending is primarily in its market area.

NOTE 5 - LOANS (CONTINUED)

Land development loans are underwritten utilizing independent appraisals, sensitivity analysis of absorption, vacancy, lease rates, and financial analysis of the developers and property owners. Land development loans are generally based upon estimates of costs and values associated with the completed project, and are subjective by nature. Land development loans often involve the disbursement of funds with repayment substantially dependent on the success of the ultimate project. These loans are closely monitored by on-site inspections and are considered to have higher risks than other real estate loans due to their ultimate repayment being sensitive to interest rate changes, general economic conditions, and the availability of long-term financing. The Bank generally requires guarantees on these loans. The Bank's land development loans are secured primarily by properties located in its primary market area.

The Bank originates 1 to 4 family real estate and consumer loans utilizing credit reports to supplement the underwriting process. The Bank's underwriting standards for 1 to 4 family loans are generally in accordance with FHLMC and FNMA underwriting guidelines. Properties securing 1 to 4 family real estate loans are appraised by appraisers who are independent of the loan origination function and have been approved by the Board of Directors. The loan-to-value ratios normally do not exceed 80% without credit enhancements such as mortgage insurance. The Bank will lend up to 100% of the lesser of the appraised value or purchase price for conventional 1 to 4 family real estate loans, provided private mortgage insurance is obtained. The underwriting standards for consumer loans include a determination of the applicant's payment history on other debts and an assessment of their ability to meet existing obligations and payments on the proposed loan. To monitor and manage loan risk, policies and procedures are developed, and modified as needed by management. This activity, coupled with smaller loan amounts that are spread across many individual borrowers, minimizes risk. Additionally, market conditions are reviewed by management on a regular basis. The Bank's 1 to 4 family real estate loans are secured primarily by properties located in its primary market area.

The Bank maintains an internal credit analysis department that reviews and validates the credit risk program on a periodic basis, as well as an external loan review performed annually or semi-annually. Results of these reviews are presented to management and the Audit Committee of the Board of Directors. The credit analysis and loan review processes compliment and reinforce the risk identification and assessment decisions made by lenders and credit personnel, as well as the Bank's policies and procedures.

NOTE 5 - LOANS (CONTINUED)

The following presents the balances in the allowance for loan losses and the recorded investment in loans by portfolio segment and based on impairment method as of December 31, 2018 and 2017 (dollars in thousands):

		<u>Real Estate</u>				Credit	
	Commercial	Residential	Non-residential	Construction	Consumer	card	Total
2018							
Allowance for loan losses:							
Ending allowance balance attributable to loans:							
Individually evaluated for impairment	\$ -	\$ 55	\$ 8	\$ -	\$ -	\$ -	\$ 63
Collectively evaluated for impairment	<u>482</u>	<u>926</u>	<u>3,008</u>	<u>113</u>	<u>887</u>	<u>81</u>	<u>5,497</u>
Total	<u>\$ 482</u>	<u>\$ 981</u>	<u>\$ 3,016</u>	<u>\$ 113</u>	<u>\$ 887</u>	<u>\$ 81</u>	<u>\$ 5,560</u>
Loans:							
Loans individually evaluated for impairment	\$ 169	\$ 2,557	\$ 516	\$ -	\$ 5	\$ -	\$ 3,247
Loans acquired with deteriorated credit quality	-	330	220	-	-	-	550
Loans collectively evaluated for impairment	<u>63,221</u>	<u>119,220</u>	<u>332,286</u>	<u>14,321</u>	<u>77,608</u>	<u>3,432</u>	<u>610,088</u>
Total	<u>\$63,390</u>	<u>\$122,107</u>	<u>\$333,022</u>	<u>\$14,321</u>	<u>\$77,613</u>	<u>\$3,432</u>	<u>\$613,885</u>
2017							
Allowance for loan losses:							
Ending allowance balance attributable to loans:							
Individually evaluated for impairment	\$ 1	\$ 50	\$ 9	\$ -	\$ -	\$ -	\$ 60
Collectively evaluated for impairment	<u>594</u>	<u>933</u>	<u>2,812</u>	<u>61</u>	<u>675</u>	<u>82</u>	<u>5,157</u>
Total	<u>\$ 595</u>	<u>\$ 983</u>	<u>\$ 2,821</u>	<u>\$ 61</u>	<u>\$ 675</u>	<u>\$ 82</u>	<u>\$ 5,217</u>
Loans:							
Loans individually evaluated for impairment	\$ 80	\$ 2,664	\$ 1,142	\$ -	\$ 13	\$ -	\$ 3,899
Loans acquired with deteriorated credit quality	-	349	250	-	-	-	599
Loans collectively evaluated for impairment	<u>65,458</u>	<u>120,405</u>	<u>327,221</u>	<u>7,709</u>	<u>61,272</u>	<u>3,473</u>	<u>585,538</u>
Total	<u>\$65,538</u>	<u>\$123,418</u>	<u>\$328,613</u>	<u>\$ 7,709</u>	<u>\$61,285</u>	<u>\$3,473</u>	<u>\$590,036</u>

NOTE 5 - LOANS (CONTINUED)

The following represents loans individually evaluated for impairment by class of loans as of December 31, 2018 and 2017 (dollars in thousands):

	2018			2017		
	Unpaid principal balance	Recorded investment	Allowance for loan losses allocated	Unpaid principal balance	Recorded investment	Allowance for loan losses allocated
With no related allowance recorded:						
<i>Commercial loans</i>	\$ 253	\$ 159	\$ -	\$ 138	\$ 27	\$ -
<i>Residential real estate loans</i>						
Open-end home equity	215	183	-	309	282	-
1 – 4 family (1st mortgages)	663	396	-	715	392	-
<i>Non-residential real estate loans</i>						
Non-farm	957	56	-	2,065	617	-
<i>Consumer - other</i>	10	5	-	18	13	-
With an allowance recorded:						
<i>Commercial loans</i>	10	10	-	53	53	1
<i>Residential real estate loans</i>						
Open-end home equity	346	346	6	246	246	5
1 – 4 (1st mortgages)	1,997	1,962	49	2,124	2,093	45
<i>Non-residential real estate loans</i>						
Non-farm	680	680	8	775	775	9
Total	<u>\$ 5,131</u>	<u>\$ 3,797</u>	<u>\$ 63</u>	<u>\$ 6,443</u>	<u>\$ 4,498</u>	<u>\$ 60</u>

The following is additional information with respect to impaired loans for the years ended December 31, 2018 and 2017 (dollars in thousands):

	2018	2017
Average investment in impaired loans	<u>\$ 3,592</u>	<u>\$ 4,436</u>
Interest income recognized on impaired loans	<u>\$ 159</u>	<u>\$ 236</u>
Interest income recognized on a cash basis on impaired loans	<u>\$ -</u>	<u>\$ -</u>

No additional funds are committed to be advanced in connection with impaired loans.

NOTE 5 - LOANS (CONTINUED)

The following represents a summary of the number and recorded investments of trouble debt restructurings ("TDR") occurring during the years ended December 31, 2018 and 2017 (dollars in thousands):

	2018		2017	
	Number	Amount	Number	Amount
Open-end home equity	2	\$ 102	1	\$ 108
1 – 4 family real estate (1st mortgage)	2	153	2	92
1 – 4 family real estate (Jr. mortgage)	-	-	1	69
Commercial	-	-	2	25
Consumer – vehicle	<u>1</u>	<u>5</u>	<u>-</u>	<u>-</u>
Total recorded investments	<u>5</u>	<u>\$ 260</u>	<u>6</u>	<u>\$ 294</u>

There was \$4,000 in specific reserves relating to loans that were modified in TDR in 2018 and \$3,000 in 2017.

The post-modification balances approximate the pre-modification balances. The aggregate amount of charge-offs resulting from restructuring are not significant.

There were no TDR that subsequently defaulted within twelve months of the date of modification during the years ended December 31, 2018 and 2017.

The Bank does not have material commitments to lend additional funds to borrowers with loans whose terms have been modified in TDR or whose loans are on nonaccrual.

NOTE 5 - LOANS (CONTINUED)

The following presents the recorded investment in past due and non-accrual loans as of December 31, 2018 and 2017 by class of loans (dollars in thousands).

	Loans past due accruing interest			Loans on non- accrual	Loans not past due or non- accrual	Total
	30 – 89 days	90+ days	Total			
2018						
<i>Commercial loans:</i>						
Agricultural loans	\$ 15	\$ -	\$ 15	\$ -	\$ 3,233	\$ 3,248
Commercial loans	75	-	75	154	57,271	57,500
Overdraft LOC	-	-	-	-	739	739
Non-profit/political subdivisions	-	-	-	-	1,903	1,903
<i>Residential real estate loans:</i>						
Open-end home equity	86	30	116	149	26,249	26,514
1 – 4 family (1 st mortgages)	617	237	854	405	92,984	94,243
1 – 4 family (Jr. mortgages)	-	-	-	-	1,350	1,350
<i>Non-residential real estate loans:</i>						
Multifamily	-	-	-	-	51,526	51,526
Farm	-	-	-	-	7,646	7,646
Non-farm	4	13	17	-	273,833	273,850
<i>Construction real estate loans</i>	-	-	-	-	14,321	14,321
<i>Consumer loans:</i>						
Vehicle	161	20	181	-	32,072	32,253
Overdraft LOC	3	-	3	-	190	193
Mobile home	17	-	17	-	2,391	2,408
Home improvement	-	-	-	-	198	198
Other	131	1	132	-	42,429	42,561
<i>Credit card</i>	<u>25</u>	<u>4</u>	<u>29</u>	<u>-</u>	<u>3,403</u>	<u>3,432</u>
Total	<u>\$ 1,134</u>	<u>\$ 305</u>	<u>\$ 1,439</u>	<u>\$ 708</u>	<u>\$ 611,738</u>	<u>\$ 613,885</u>
2017						
<i>Commercial loans:</i>						
Agricultural loans	\$ -	\$ -	\$ -	\$ -	\$ 3,044	\$ 3,044
Commercial loans	120	4	124	-	59,563	59,687
Overdraft LOC	-	-	-	-	937	937
Non-profit/political subdivisions	-	-	-	-	1,870	1,870
<i>Residential real estate loans:</i>						
Open-end home equity	167	-	167	212	29,070	29,449
1 – 4 family (1 st mortgages)	1,378	100	1,478	429	90,360	92,267
1 – 4 family (Jr. mortgages)	-	-	-	-	1,702	1,702
<i>Non-residential real estate loans:</i>						
Multifamily	-	-	-	-	59,925	59,925
Farm	138	-	138	-	6,734	6,872
Non-farm	75	-	75	-	261,741	261,816
<i>Construction real estate loans</i>	-	-	-	-	7,709	7,709
<i>Consumer loans:</i>						
Vehicle	255	13	268	-	24,368	24,636
Overdraft LOC	3	1	4	-	193	197
Mobile home	9	-	9	-	2,419	2,428
Home improvement	-	-	-	-	411	411
Other	93	-	93	13	33,507	33,613
<i>Credit card</i>	<u>22</u>	<u>-</u>	<u>22</u>	<u>-</u>	<u>3,451</u>	<u>3,473</u>
Total	<u>\$ 2,260</u>	<u>\$ 118</u>	<u>\$ 2,378</u>	<u>\$ 654</u>	<u>\$ 587,004</u>	<u>\$ 590,036</u>

NOTE 5 - LOANS (CONTINUED)

The Bank categorizes loans into risk categories based on relevant information about the ability of the borrowers to service their debt such as: current financial information, historical payment experience, credit documentation, public information, and current economic trends, among other factors. The Bank uses the following definitions for risk ratings:

- **Special Mention** – Loans classified special mention possess some credit deficiency or potential weakness that deserves close attention, but do not yet warrant substandard classification. Such loans pose unwarranted financial risk that, if not corrected, could weaken the loan and increase risk of losses in the future.
- **Substandard** – Loans classified as substandard are inadequately protected by the current net worth and paying capacity of the obligor or of the collateral pledged, if any. Loans classified as substandard have well-defined weakness or weaknesses that jeopardize the liquidation of the debt. They are categorized by the distinct possibility that the institution will sustain some loss if the deficiencies are not corrected.
- **Doubtful** – Loans classified as doubtful have all of the weaknesses of those classified as substandard. Additionally, however, these weaknesses make collection or liquidation in full based on existing conditions improbable.

Loans not meeting the criteria above that are analyzed individually as part of the above described process are considered to be pass rated loans. The following presents loans as of December 31, 2018 and 2017 that are collectively evaluated for impairment and are not considered to be impaired (dollars in thousands):

2018	Pass	Special mention	Sub- standard	Doubtful	Not rated	Total
<i>Commercial loans:</i>						
Agricultural loans	\$ 3,153	\$ -	\$ 95	\$ -	\$ -	\$ 3,248
Commercial loans	55,753	282	1,465	-	-	57,500
Overdraft LOC	-	-	-	-	739	739
Non-profit/political subdivisions	1,903	-	-	-	-	1,903
<i>Residential real estate loans:</i>						
Open-end home equity	25,747	411	356	-	-	26,514
1 – 4 family (1 st mortgages)	90,505	1,719	2,019	-	-	94,243
1 – 4 family (Jr. mortgages)	1,350	-	-	-	-	1,350
<i>Non-residential real estate loans:</i>						
Multifamily	51,318	-	208	-	-	51,526
Farm	7,182	50	414	-	-	7,646
Non-farm	258,641	10,927	4,282	-	-	273,850
<i>Construction real estate</i>	14,321	-	-	-	-	14,321
<i>Consumer loans:</i>						
Vehicle	32,114	99	40	-	-	32,253
Overdraft LOC	-	-	-	-	193	193
Mobile home	2,399	-	9	-	-	2,408
Home improvement	198	-	-	-	-	198
Other	42,428	126	7	-	-	42,561
<i>Credit card</i>	-	-	-	-	3,432	3,432
Total	\$ 587,012	\$ 13,614	\$ 8,895	\$ -	\$ 4,364	\$ 613,885

NOTE 5 - LOANS (CONTINUED)

2017	Pass	Special mention	Sub- standard	Doubtful	Not rated	Total
<i>Commercial loans:</i>						
Agricultural loans	\$ 3,044	\$ -	\$ -	\$ -	\$ -	\$ 3,044
Commercial loans	54,217	252	5,218	-	-	59,687
Overdraft LOC	-	-	-	-	937	937
Non-profit/political subdivisions	1,870	-	-	-	-	1,870
<i>Residential real estate loans:</i>						
Open-end home equity	28,720	364	365	-	-	29,449
1 – 4 family (1 st mortgages)	89,232	1,285	1,750	-	-	92,267
1 – 4 family (Jr. mortgages)	1,701	1	-	-	-	1,702
<i>Non-residential real estate loans:</i>						
Multifamily	58,154	-	1,771	-	-	59,925
Farm	6,734	24	114	-	-	6,872
Non-farm	248,486	7,926	5,404	-	-	261,816
<i>Construction real estate</i>	7,709	-	-	-	-	7,709
<i>Consumer loans:</i>						
Vehicle	24,580	42	14	-	-	24,636
Overdraft LOC	-	-	-	-	197	197
Mobile home	2,419	-	9	-	-	2,428
Home improvement	411	-	-	-	-	411
Other	33,571	38	4	-	-	33,613
<i>Credit card</i>	-	-	-	-	3,473	3,473
Total	\$ 560,848	\$ 9,932	\$14,649	\$ -	\$ 4,607	\$ 590,036

Certain directors and executive officers, including their immediate families and companies in which they are principal owners, are loan clients of the Bank. Such loans are made in the ordinary course of business in accordance with the Bank's normal lending policies, including the interest rate charged and collateralization, and do not represent more than a normal collection risk. Such loans amounted to \$353,000 and \$438,000 at December 31, 2018 and 2017, respectively.

The following is a summary of activity during 2018 and 2017 with loan renewals included in additions and repayments (dollars in thousands):

	Balance at beginning	Additions	Repayments	Balance at end
2018	<u>\$ 438</u>	<u>\$ 125</u>	<u>\$ 210</u>	<u>\$ 353</u>
2017	<u>\$ 432</u>	<u>\$ 112</u>	<u>\$ 106</u>	<u>\$ 438</u>

Deposits to officers, directors, and employees of the Bank approximated \$6,670,000 as of December 31, 2018, and \$5,296,000 at December 31, 2017.

NOTE 6 - ALLOWANCE FOR LOAN LOSSES

The following presents the balances and activity in the allowance for loan losses by portfolio segment for the years ended December 31, 2018 and 2017 (dollars in thousands):

	Commercial	Residential real estate	Non- residential real estate	Construction real estate	Consumer	Credit card	Total
Balance at December 31, 2017	\$ 594	\$ 983	\$ 2,821	\$ 61	\$ 676	\$ 82	\$ 5,217
Provision (credit) for loan losses	(91)	72	174	52	329	34	570
Losses charged off	(21)	(85)	-	-	(140)	(42)	(288)
Recoveries	-	11	21	-	22	7	61
Balance at December 31, 2018	<u>\$ 482</u>	<u>\$ 981</u>	<u>\$ 3,016</u>	<u>\$ 113</u>	<u>\$ 887</u>	<u>\$ 81</u>	<u>\$ 5,560</u>
Balance at December 31, 2016	\$ 535	\$ 1,136	\$ 2,486	\$ 34	\$ 527	\$ 70	\$ 4,788
Provision (credit) for loan losses	59	(100)	302	27	256	56	600
Losses charged off	-	(99)	(2)	-	(131)	(47)	(279)
Recoveries	-	46	35	-	24	3	108
Balance at December 31, 2017	<u>\$ 594</u>	<u>\$ 983</u>	<u>\$ 2,821</u>	<u>\$ 61</u>	<u>\$ 676</u>	<u>\$ 82</u>	<u>\$ 5,217</u>

NOTE 7 - PREMISES AND EQUIPMENT

The following is a summary of premises and equipment at December 31, 2018 and 2017 (dollars in thousands):

	2018	2017
Land and improvements	\$ 2,867	\$ 2,867
Buildings	14,365	14,190
Equipment	<u>10,733</u>	<u>10,066</u>
	27,965	27,123
Less accumulated depreciation	<u>17,863</u>	<u>17,069</u>
Premises and equipment, net	<u>\$ 10,102</u>	<u>\$10,054</u>

Depreciation of premises and equipment amounted to \$822,000 in 2018 and \$882,000 in 2017.

NOTE 8 - SECONDARY MARKET LENDING

As part of its normal business activity, the Bank services loans for others, including substantially all qualifying fixed rate residential mortgage loans which it originates and sells in the secondary market with servicing retained. Serviced loans are not reported as assets of the Bank and amounted to \$180,783,000 and \$178,492,000 as of December 31, 2018 and 2017, respectively.

Loans sold in the secondary market amounted to \$21,993,000 and \$21,938,000 during the years ended December 31, 2018 and 2017, respectively, resulting in gain on sale of loans of \$667,000 in 2018 and \$630,000 in 2017.

The following is a summary of activity for capitalized mortgage servicing rights for the years ended December 31, 2018 and 2017 (dollars in thousands):

	2018	2017
Balance at beginning of year	\$ 977	\$1,104
Capitalized servicing rights	199	214
Amortized to expense	<u>(336)</u>	<u>(341)</u>
Balance at end of year	<u>\$ 840</u>	<u>\$ 977</u>

Mortgage servicing rights are included in other assets in the accompanying consolidated balance sheets.

NOTE 9 - DEPOSITS

Time deposits at December 31, 2018 that included individual deposits of \$250,000 and over amounted to \$15,934,000 and \$13,956,000 at December 31, 2017.

At December 31, 2018, the scheduled maturities of time deposits were as follows (dollars in thousands):

2019	\$ 44,950
2020	25,968
2021	22,656
2022	16,387
2023	9,386
Thereafter	<u>5,243</u>
Total	<u>\$ 124,590</u>

NOTE 10 - BORROWED FUNDS

Borrowed funds consisted of the following at December 31, 2018 and 2017 (dollars in thousands):

	2018	2017
Federal Home Loan Bank (FHLB):		
Secured note, with interest at 1.43%, due January 2018	\$ -	\$ 6,000
Secured note, with interest at 1.43%, due January 2018	-	16,500
Secured note, with interest at 2.47%, due January 2019	8,000	-
Secured note, with interest at 2.46%, due January 2019	9,000	-
Secured note, with interest at 1.87%, due February 2021	<u>222</u>	<u>358</u>
	<u>\$17,222</u>	<u>\$22,858</u>

Future maturities of borrowed funds at December 31, 2018 were as follows (dollars in thousands):

2019	\$ 17,113
2020	102
2021	<u>7</u>
Total	<u>\$ 17,222</u>

The FHLB notes require monthly interest payments and are secured by stock in the FHLB of Cincinnati and eligible mortgage loans totaling \$207,788,000 at December 31, 2018.

At December 31, 2018, the Bank has available borrowings of \$39,893,000 under its line of credit with the Federal Home Loan Bank.

NOTE 11 - FEDERAL FUNDS PURCHASED AND SECURITIES SOLD UNDER REPURCHASE AGREEMENTS

Securities sold under repurchase agreements, which are classified as secured borrowings, generally mature within one to four days from the transaction date. Securities sold under repurchase agreements at both December 31, 2018 and December 31, 2017 totaled \$36,455,000 and \$27,139,000. The weighted average interest rate was .82% and .23% for securities sold under repurchase agreements outstanding as of December 31, 2018 and 2017, respectively. Securities sold under repurchase agreements are reflected at the amount of cash received in connection with the transactions. The Bank may be required to provide additional collateral based on the fair value of the underlying securities.

As of December 31, 2018, the Bank has \$10,000,000 of short-term borrowing availability through a federal funds line of credit with a correspondent bank. As of December 31, 2018, the balance of federal funds purchased was \$518,000 with an interest rate of 3.00%. The federal funds mature on January 1, 2019.

NOTE 12 - NON-INTEREST EXPENSES

The following is a summary of non-interest expenses for the years ended December 31, 2018 and 2017 (dollars in thousands):

	2018	2017
Salaries, wages, and employee benefits	\$ 14,279	\$ 14,167
Occupancy of premises	1,117	1,100
Amortization of core deposit intangible assets	529	637
FDIC premium assessments	246	262
Equipment and vehicle	1,742	1,713
Professional and examination	763	687
State franchise and other taxes	886	826
Postage, stationery, and supplies	588	618
Advertising and marketing	584	608
Third-party computer processing	148	164
MasterCard franchise and processing	274	263
Loan collection and repossession fees	102	131
ATM network and processing fees	405	525
Other	<u>1,846</u>	<u>1,835</u>
Total non-interest expenses	<u>\$ 23,509</u>	<u>\$ 23,536</u>

NOTE 13 - FEDERAL INCOME TAXES

The provision for federal income taxes consisted of the following for 2018 and 2017 (dollars in thousands):

	2018	2017
Current	\$ 2,058	\$ 2,537
Deferred	<u>100</u>	<u>345</u>
Total	<u>\$ 2,158</u>	<u>\$ 2,882</u>

The income tax provision attributable to income from operations differs from the amounts computed by applying the U.S. federal income tax rate to income before federal income taxes as a result of the following (dollars in thousands):

	2018	2017
Expected tax using statutory tax rate of 21% for 2018 and 34% for 2017	\$ 2,974	\$ 4,465
Increase (decrease) in tax resulting from:		
Tax-exempt income on state and municipal securities and political subdivision loans	(605)	(1,051)
Interest expense associated with carrying certain state and municipal securities and political subdivision loans	12	15
Increase in cash value of life insurance policies	(59)	(97)
Tax-exempt income earned by Croghan Risk Management	(149)	(267)
Change in corporate tax rate and adjustment to deferred taxes	-	(147)
Other, net	<u>(15)</u>	<u>(36)</u>
Total	<u>\$ 2,158</u>	<u>\$ 2,882</u>

The deferred federal income tax provision of \$100,000 in 2018 and \$345,000 in 2017 resulted from the tax effects of temporary differences. On December 22, 2017, the President signed the Tax Cuts and Jobs Act into law. The Act provided for the lowering of the corporate tax rate to 21 percent beginning in 2018. As a result in the change in corporate tax rate as of December 31, 2017, management revalued deferred tax assets and liabilities, resulting in a reduction in the provision for federal income taxes of \$147,000.

NOTE 13 - FEDERAL INCOME TAXES (CONTINUED)

The tax effects of temporary differences that give rise to significant portions of deferred tax liabilities and deferred tax assets at December 31, 2018 and 2017 are presented below (dollars in thousands):

	2018	2017
Deferred tax assets:		
Purchase accounting basis difference	\$ 482	\$ 622
Allowance for loan losses	1,168	1,096
Unrealized loss on securities available-for-sale	124	-
Accrued expenses and other	<u>345</u>	<u>392</u>
Total deferred tax assets	<u>2,119</u>	<u>2,110</u>
Deferred tax liabilities:		
Unrealized gain on securities available-for-sale	-	304
Purchase accounting basis difference	805	869
Depreciation of premises and equipment	227	183
Federal Home Loan Bank stock dividends	354	354
Mortgage servicing rights	177	205
Prepaid expenses	178	218
Deferred loan costs and other	<u>289</u>	<u>216</u>
Total deferred tax liabilities	<u>2,030</u>	<u>2,349</u>
Net deferred tax assets (liabilities)	<u>\$ 89</u>	<u>\$ (239)</u>

Net deferred tax liabilities at December 31, 2018 and December 31, 2017 are included in other liabilities in the accompanying consolidated balance sheets.

Management believes it is more likely than not that the benefit of deferred tax assets will be realized. Consequently, no valuation allowance for deferred tax assets is deemed necessary as of December 31, 2018 and 2017.

In management's determination, the Corporation has no tax positions for which it deems reasonably possible that the total amounts of the unrecognized tax benefit will significantly increase or decrease within the 12 months subsequent to December 31, 2018. The tax years that remain open and subject to examination as of December 31, 2018 are years 2015 – 2018 for Federal and the State of Ohio.

NOTE 14 - EMPLOYEE BENEFITS

The Bank sponsors The Croghan Colonial Bank 401(k) Profit Sharing Plan (The Plan), a defined contribution plan which provides for both profit sharing and employer matching contributions. The Plan permits the investing in the Corporation's stock subject to various limitations. The Bank's profit sharing and matching contributions to the 401(k) profit sharing plan for the years ended December 31, 2018 and 2017 amounted to \$701,000 and \$686,000, respectively. As of December 31, 2018, the Plan held 16,958 shares of the Corporation's common stock.

The Bank has entered into various supplemental pre and post-retirement benefits with certain officers and employees of the Bank. These benefits and cost related to these benefits are supplemented by income and death benefits from insurance policies owned by the Bank. All life insurance policies required the payment of single premiums. The cash value of the life insurance policies amounted to \$17,873,000 and \$17,591,000 at December 31, 2018 and 2017, respectively.

In connection with the agreements, the Bank provided an estimated liability for accumulated pre and post-retirement benefits of \$490,000 at December 31, 2018 and \$492,000 at December 31, 2017, which is included in other liabilities in the accompanying consolidated balance sheets. The Bank recognized a credit for deferred compensation of \$2,000 in 2018 and a credit of \$4,000 in 2017.

No other post-retirement or post-employment benefits are offered to retirees or employees.

NOTE 15 - STOCK-BASED COMPENSATION

The Corporation established in 2002 a Stock Option and Incentive Plan (the "2002 Plan") which permitted the awarding of stock options and/or stock appreciation rights to directors, managerial and other key employees of the Bank. The 2002 Plan, which provided for the issuance of up to 190,951 shares, expired in March 2012.

At the 2012 Annual Meeting of Shareholders, the shareholders of the Corporation adopted the Croghan Bancshares, Inc. 2012 Equity Incentive Plan (the "2012 Plan"), which permits the Corporation to award stock options, stock appreciation rights, restricted stock, and other stock-based and performance-based awards to directors, employees, and other eligible participants. A total of 162,082 shares are available for issuance pursuant to the 2012 Plan.

Following is a summary of activity for stock options for the years ended December 31, 2018 and 2017:

	2018	2017
Outstanding, beginning of year	8,936	12,497
Granted	-	-
Exercised	(3,625)	(3,561)
Forfeited	-	-
	<u>5,311</u>	<u>8,936</u>
Outstanding, end of year	<u>5,311</u>	<u>8,936</u>

At December 31, 2018, 5,311 options with a per share exercisable price of \$24.99 were fully vested and exercisable with a weighted average remaining contractual term of five years. The intrinsic value of outstanding options as of December 31, 2018 was \$132,000.

No compensation expense related to the options was recognized in 2018 or 2017 and no unamortized compensation expense remains.

Restricted stock awards may also be issued under the 2012 Plan. The Corporation granted 3,120 shares of restricted stock in 2018. A summary of restricted stock activity for 2018 and 2017 activity is as follows:

	2018		2017	
	Shares	Weighted average grant date fair value	Shares	Weighted average grant date fair value
Nonvested at beginning of year	7,640	\$39.18	8,258	\$35.21
Granted	3,120	53.68	2,320	46.99
Vested	(2,552)	37.51	(2,938)	34.19
Forfeited	-	-	-	-
	<u>8,208</u>	<u>\$45.21</u>	<u>7,640</u>	<u>\$39.18</u>
Nonvested at end of year	<u>8,208</u>	<u>\$45.21</u>	<u>7,640</u>	<u>\$39.18</u>

Restricted stock awards vest over a four or five year period. Compensation expense relating to restricted stock is recognized over the vesting period based on the market value of the shares on the issue date and amounted to \$117,000 in 2018 and \$98,000 in 2017. As of December 31, 2018, there was \$311,000 of total unrecognized compensation cost related to unvested restricted stock awards. The cost is expected to be recognized over a weighted average period of 1.83 years.

NOTE 16 - FINANCIAL INSTRUMENTS WITH OFF-BALANCE SHEET RISK

The Corporation is a party to financial instruments with off-balance sheet risk in the normal course of business to meet the financing needs of its clients. These financial instruments are primarily loan commitments to extend credit and letters of credit. These instruments involve, to varying degrees, elements of credit risk in excess of the amounts recognized in the consolidated balance sheets. The contract amount of these instruments reflects the extent of involvement the Bank has in these financial instruments.

The Corporation's exposure to credit loss in the event of the nonperformance by the other party to the financial instruments for loan commitments to extend credit and letters of credit is represented by the contractual amounts of these instruments. The Corporation uses the same credit policies in making loan commitments as it does for on-balance sheet loans.

The following financial instruments whose contract amount represents credit risk were outstanding at December 31, 2018 and 2017 (dollars in thousands):

	<u>Contract amount</u>	
	2018	2017
Commitments to extend credit, including commitments to grant loans and unfunded commitments under lines of credit	<u>\$ 132,596</u>	<u>\$ 123,095</u>
Standby letters of credit	<u>\$ 434</u>	<u>\$ 203</u>

Commitments to extend credit are agreements to lend to a customer as long as there is no violation of any condition established in the contract. Commitments generally have fixed expiration dates or other termination clauses and may require payment of a fee. Since many of the commitments are expected to expire without being drawn upon, the total commitment amount does not necessarily represent future cash requirements. The Bank evaluates each customer's credit worthiness on a case-by-case basis. The amount of collateral obtained, if deemed necessary upon extension of credit, is based on management's credit evaluation of the client. Collateral held varies but may include accounts receivable; inventory; property, plant, and equipment; and income-producing commercial properties.

Standby letters of credit are written conditional commitments issued by the Bank to guarantee the performance of a customer to a third party and are reviewed for renewal at expiration. All outstanding standby letters of credit at December 31, 2018 expire in 2019. The credit risk involved in issuing standby letters of credit is essentially the same as that involved in extending loans to clients. The Bank requires collateral supporting these commitments when deemed necessary.

Various legal claims also arise from time to time in the normal course of business, which in the opinion of management, will have no material effect in the corporation's consolidated financial statements.

NOTE 17 - REGULATORY MATTERS

The Bank is subject to various regulatory capital requirements administered by the federal and state banking agencies. Failure to meet minimum capital requirements can initiate certain mandatory, and possibly additional discretionary, actions by regulators that, if undertaken, could have a direct material effect on the Bank's financial statements. Under capital adequacy guidelines and the regulatory framework for prompt corrective action, the Bank must meet specific capital guidelines that involve quantitative measures of their assets, liabilities, and certain off-balance sheet items as calculated under regulatory accounting practices. The capital amounts and classification are also subject to qualitative judgments by the regulators about components, risk weightings, and other factors.

Quantitative measures established by regulation to ensure capital adequacy require the Bank to maintain minimum amounts and ratios (set forth below) of Common Equity Tier 1, Total and Tier I capital (as defined in the regulations) to risk-weighted assets (as defined in the regulations), and of Tier I capital to average assets (as defined in the regulations). Management believes, as of December 31, 2018 and 2017, that the Bank met all capital adequacy requirements to which it was subject.

As of December 31, 2018, the most recent notification from federal and state banking agencies categorized the Bank as "well capitalized" under the regulatory framework for prompt corrective action. To be categorized as "well capitalized", an institution must maintain minimum total risk-based, Tier I risk-based and Tier I leverage ratios as set forth in the following. There are no conditions or events since that notification that management believes have changed the Bank's category.

NOTE 17 - REGULATORY MATTERS (CONTINUED)

The actual capital amounts and ratios of the Bank as of December 31, 2018 and 2017 are presented as follows (dollars in thousands):

	Actual		Minimum capital requirement		Minimum to be well capitalized under prompt corrective action provisions	
	Amount	Ratio	Amount	Ratio	Amount	Ratio
As of December 31, 2018						
Total Capital (to Risk-Weighted Assets)						
Bank	\$95,129	13.1%	\$58,196	≥ 8.0%	\$ 72,745	≥ 10.0%
Common Equity Tier 1 Capital (to Risk-Weighted Assets)						
Bank	89,569	12.3%	32,735	≥ 4.5%	47,285	≥ 6.5%
Tier I Capital (to Risk-Weighted Assets)						
Bank	89,569	12.3%	43,647	≥ 6.0%	58,196	≥ 8.0%
Tier I Capital (to Average Assets)						
Bank	89,569	11.2%	32,072	≥ 4.0%	40,091	≥ 5.0%
As of December 31, 2017						
Total Capital (to Risk-Weighted Assets)						
Bank	\$88,219	12.9%	\$54,696	≥ 8.0%	\$ 68,371	≥ 10.0%
Common Equity Tier 1 Capital (to Risk-Weighted Assets)						
Bank	83,002	12.1%	30,767	≥ 4.5%	44,441	≥ 6.5%
Tier I Capital (to Risk-Weighted Assets)						
Bank	83,002	12.1%	41,022	≥ 6.0%	54,696	≥ 8.0%
Tier I Capital (to Average Assets)						
Bank	83,002	10.3%	32,216	≥ 4.0%	40,270	≥ 5.0%

On a parent company only basis, the Corporation's primary source of funds are dividends paid by the Bank. The ability of the Bank to pay dividends is subject to limitations under various laws and regulations, and to prudent and sound banking principles. Generally, subject to certain minimum capital requirements, the Bank may declare a dividend without the approval of the State of Ohio Division of Financial Institutions, unless the total dividends in a calendar year exceed the total of its net profits for the year combined with its retained profits of the two preceding years.

The Board of Governors of the Federal Reserve System generally considers it to be an unsafe and unsound banking practice for a bank holding company to pay dividends except out of current operating income, although other factors such as overall capital adequacy and projected income may also be relevant in determining whether dividends should be paid.

NOTE 18 - CONDENSED PARENT COMPANY FINANCIAL INFORMATION

A summary of condensed financial information of the parent company as of December 31, 2018 and 2017 and for each of the two years in the period ended December 31, 2018 was as follows (dollars in thousands):

CONDENSED BALANCE SHEETS	2018	2017
Assets:		
Cash	\$ 469	\$ -
Dividends receivable from subsidiary	1,026	868
Investment in subsidiaries	114,114	108,433
Available-for-sale security	350	350
Other asset	<u>37</u>	<u>83</u>
Total assets	<u>\$115,996</u>	<u>\$109,734</u>
Liabilities:		
Dividends payable	<u>1,026</u>	<u>868</u>
Total liabilities	<u>1,026</u>	<u>868</u>
Stockholders' equity:		
Common stock	31,328	31,328
Surplus	13,070	13,122
Retained earnings	79,104	71,080
Accumulated other comprehensive (loss) income	(466)	954
Treasury stock	<u>(8,066)</u>	<u>(7,618)</u>
Total stockholders' equity	<u>114,970</u>	<u>108,866</u>
Total liabilities and stockholders' equity	<u>\$115,996</u>	<u>\$109,734</u>

CONDENSED STATEMENTS OF INCOME	2018	2017
Income – dividends from subsidiaries	\$ 4,834	\$ 3,336
Professional fees, interest, and other expenses	<u>(147)</u>	<u>(168)</u>
Income before income taxes and equity in undistributed net income of subsidiary	4,687	3,168
Federal income tax benefit	<u>(26)</u>	<u>(54)</u>
Income before equity in undistributed net income of subsidiary	4,713	3,222
Equity in net income of subsidiary, less dividends	<u>7,289</u>	<u>7,027</u>
Net income	<u>\$12,002</u>	<u>\$10,249</u>

NOTE 18 - CONDENSED PARENT COMPANY FINANCIAL INFORMATION (CONTINUED)

CONDENSED STATEMENTS OF CASH FLOWS	2018	2017
Cash flows from operating activities:		
Net income	\$12,002	\$10,249
Adjustments to reconcile net income to net cash provided by operating activities:		
Equity in net income of subsidiary, less dividends	(7,289)	(7,027)
Increase in dividends receivable	(158)	(47)
Stock-based compensation expense	117	98
Decrease in other assets	<u>46</u>	<u>38</u>
Net cash provided by operating activities	<u>4,718</u>	<u>3,311</u>
Cash flows from financing activities:		
Cash dividends paid	(3,632)	(3,334)
Exercising of stock options	91	89
Treasury shares purchased	<u>(708)</u>	<u>(67)</u>
Net cash used in financing activities	<u>(4,249)</u>	<u>(3,312)</u>
Net increase (decrease) in cash	469	(1)
Cash at beginning of year	<u>-</u>	<u>1</u>
Cash at end of year	<u>\$ 469</u>	<u>\$ -</u>

The Board of Directors authorized a stock buyback plan commencing February 1, 2018 and ending August 1, 2018, which allows up to 68,552 outstanding common shares to be repurchased. During the period February 1, 2018 through August 1, 2018, 6,322 shares were repurchased. The Board of Directors extended the stock buyback plan commencing on August 1, 2018 and ending on February 1, 2019, which allows up to 68,541 outstanding common shares to be repurchased. During the period August 1, 2018 through December 31, 2018, 6,600 shares were repurchased.

The Board of Directors extended the stock buyback plan commencing February 1, 2019 and ending August 1, 2019, which allows up to 68,367 outstanding common shares to be repurchased.

The decision whether to purchase shares, the number of shares to be purchased, and the price to be paid depends upon the availability of shares, prevailing market prices, and other possible considerations which might affect the advisability of purchasing shares.

NOTE 19 - FAIR VALUE MEASUREMENTS

ASC 820-10 defines fair value as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. A fair value measurement assumes that the transaction to sell the asset or transfer the liability occurs in the principal market for the asset or liability or, in the absence of a principal market, the most advantageous market for the asset or liability. The price in the principal (or most advantageous) market used to measure the fair value of the asset or liability shall not be adjusted for transaction costs. An orderly transaction is a transaction that assumes exposure to the market for a period prior to the measurement date to allow for marketing activities that are usual and customary for transactions involving such assets and liabilities; it is not a forced transaction. Market participants are buyers and sellers in the principal market that are independent, knowledgeable, and both able and willing to transact.

Nonfinancial assets and liabilities measured at fair value on a recurring basis include reporting units measured at fair value in the first step of a goodwill impairment test. Nonfinancial assets measured at fair value on a nonrecurring basis include nonfinancial assets and liabilities measured at fair value in the second step of a goodwill impairment test, as well as intangible assets and other nonfinancial long-lived assets measured at fair value for impairment assessment, such as other real estate owned.

ASC 820-10 requires the use of valuation techniques that are consistent with the market approach, the income approach, and/or the cost approach. The market approach uses prices and other relevant information generated by market transactions involving identical or comparable assets and liabilities. The income approach uses valuation techniques to convert future amounts, such as cash flows or earnings, to a single present amount on a discounted basis. The cost approach is based on the amount that currently would be required to replace the service capacity of an asset (replacement cost). Valuation techniques should be consistently applied. Inputs to valuation techniques refer to the assumptions that market participants would use in pricing the asset or liability. Inputs may be observable or unobservable. Observable inputs reflect the assumptions market participants would use in pricing the asset or liability developed based on market data obtained from independent sources. Unobservable inputs reflect the reporting entity's own assumptions about the assumptions market participants would use in pricing the asset or liability developed based on the best information available in the circumstances. In that regard, ASC 820-10 establishes a fair value hierarchy for valuation inputs that gives the highest priority to quoted prices in active markets for identical assets or liabilities and the lowest priority to unobservable inputs. The fair value hierarchy is as follows:

Level 1 – Quoted prices (unadjusted) in active markets for identical assets or liabilities that the Corporation has the ability to access at the measurement date.

Level 2 – 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: quoted prices for similar assets or liabilities in active markets; quoted prices for identical or similar assets or liabilities in markets that are not active; inputs other than quoted prices that are observable for the asset or liability; and inputs that are derived principally from or corroborated by observable market data by correlation or other means.

Level 3 – Unobservable inputs for the asset or liability for which there is little, if any, market activity at the measurement date. Unobservable inputs reflect the Corporation's own assumptions about what market participants would use to price the asset or liability. The inputs are developed based on the best information available in the circumstances, which might include the Corporation's own financial data such as internally developed pricing models, discounted cash flow methodologies, as well as instruments for which the fair value determination requires significant management judgment.

There were no financial instruments measured at fair value that moved to a lower level in the fair value hierarchy due to the lack of observable quotes in inactive markets for those instruments at December 31, 2018 and 2017.

NOTE 19 - FAIR VALUE MEASUREMENTS (CONTINUED)

The following summarizes financial assets (there were no financial liabilities) measured at fair value as of December 31, 2018 and 2017, segregated by the level of the valuation inputs within the fair value hierarchy utilized to measure fair value (dollars in thousands):

	Level 1 inputs	Level 2 inputs	Level 3 inputs	Total fair value
2018				
Recurring:				
Securities available-for-sale:				
Obligations of U.S. Government agencies and corporations	\$ -	\$ 63,700	\$ -	\$ 63,700
Obligations of states and political subdivisions	-	90,184	-	90,184
Other	-	350	-	350
Total	<u>\$ -</u>	<u>\$ 154,234</u>	<u>\$ -</u>	<u>\$ 154,234</u>
Nonrecurring:				
Other real estate owned	\$ -	\$ -	\$ 170	\$ 170
Impaired loans	-	-	3,734	3,734
Total	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 3,904</u>	<u>\$ 3,904</u>
	Level 1 inputs	Level 2 inputs	Level 3 inputs	Total fair value
2017				
Recurring:				
Securities available-for-sale:				
Obligations of U.S. Government agencies and corporations	\$ -	\$ 75,586	\$ -	\$ 75,586
Obligations of states and political subdivisions	-	98,145	-	98,145
Other	-	350	-	350
Total	<u>\$ -</u>	<u>\$ 174,081</u>	<u>\$ -</u>	<u>\$ 174,081</u>
Nonrecurring:				
Other real estate owned	\$ -	\$ -	\$ 248	\$ 248
Impaired loans	-	-	4,438	4,438
Total	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 4,686</u>	<u>\$ 4,686</u>

There were no transfers of financial instruments between Levels 1 and 2 during 2018 and 2017.

A description of the valuation methodologies used for instruments measured at fair value, as well as the general classification of such instruments pursuant to the valuation hierarchy, follows.

NOTE 19 - FAIR VALUE MEASUREMENTS (CONTINUED)

In general, fair value is based upon quoted market prices, where available. If such quoted market prices are not available, fair value is based upon models that primarily use, as inputs, observable market-based parameters. Valuation adjustments may be made to ensure that financial instruments are recorded at fair value. These adjustments may include amounts to reflect counterparty credit quality, the Corporation's creditworthiness, among other things, as well as unobservable parameters. Any such valuation adjustments are applied consistently over time. The Corporation's valuation methodologies may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. While management believes the Corporation's valuation methodologies are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different estimate of fair value at the reporting date.

Securities Available-for-Sale

Where quoted prices are available in an active market, securities are classified within Level 1 of the valuation hierarchy. Level 1 securities would typically include government bonds and exchange traded equities. If quoted market prices are not available, then fair values are estimated using pricing models, quoted prices of securities with similar characteristics, or discounted cash flows. Examples of such instruments, which would generally be classified within Level 2 of the valuation hierarchy, include corporate and municipal bonds, mortgage-backed securities, and asset-backed securities. In certain cases where there is limited activity or less transparency around inputs to the valuation, securities are classified within Level 3 of the valuation hierarchy. The Corporation did not have any securities classified as Level 1 or Level 3 at December 31, 2018 and 2017.

The Corporation had investments in equity securities without a readily determinable fair value with a carrying amounts of \$350,000 as of December 31, 2018 and 2017, respectively. No changes have been made to the carrying value of these investments as a result of observable price changes.

Impaired Loans

The Corporation does not record impaired loans at fair value on a recurring basis. However, periodically, a loan is considered impaired and is reported at the fair value of the underlying collateral, less estimated costs to sell, if repayment is expected solely from the collateral. Collateral values are estimated using Level 2 inputs, including recent appraisals and Level 3 inputs based on customized discounting criteria including discounting of appraisals based on age or changes in property or market conditions. These discounts generally range from 10% to 55%. Collateral values are also discounted for estimated selling costs of 10%. Estimated cash flows are discounted considering the loan rate and current market rates and generally range from 5% to 11%. Due to the significance of the Level 3 inputs, impaired loans fair values have been classified as Level 3.

Other Real Estate Owned

The Corporation values other real estate owned at the estimated fair value of the underlying collateral less expected selling costs, generally approximating 10%. Such values are estimated primarily using appraisals and reflect a market value approach. Due to the significance of the Level 3 inputs, other real estate owned has been classified as Level 3.

NOTE 20 - FAIR VALUE OF FINANCIAL INSTRUMENTS

The fair values of recognized financial instruments at December 31, 2018 and 2017, as well as indication of where the instrument falls within the fair value hierarchy described in Note 19, are as follows (dollars in thousands):

	<u>2018</u>		<u>2017</u>	
	Carrying amount	Fair value	Carrying amount	Fair value
FINANCIAL ASSETS				
Cash and cash equivalents	\$ 20,537	\$ 20,537	\$ 20,003	\$ 20,003
Securities	160,108	160,108	179,955	179,955
Loans, net	<u>608,325</u>	<u>604,048</u>	<u>584,819</u>	<u>577,739</u>
Total	<u>\$ 788,970</u>	<u>\$ 784,693</u>	<u>\$ 784,777</u>	<u>\$ 777,697</u>
FINANCIAL LIABILITIES				
Deposits	\$ 672,973	\$ 670,173	\$ 678,138	\$ 680,503
Federal funds purchased and securities sold under repurchase agreements	36,973	36,973	28,139	28,139
Borrowed funds	<u>17,222</u>	<u>17,221</u>	<u>22,858</u>	<u>22,857</u>
Total	<u>\$ 727,168</u>	<u>\$ 724,367</u>	<u>\$ 729,135</u>	<u>\$ 731,499</u>

The preceding summary does not include accrued interest receivable, cash surrender value of life insurance, dividends payable, and other liabilities which are also considered financial instruments. The estimated fair value of such items is considered to be their carrying amount.

The Bank also has unrecognized financial instruments which relate to commitments to extend credit and standby letters of credit. The contract amount of such financial instruments was \$133,030,000 at December 31, 2018 and \$123,298,000 at December 31, 2017. The fair value of such instruments is not considered significant since they represent commitments at current interest rates.

The following methods and assumptions were used to estimate fair value of each class of financial instruments:

Cash and Cash Equivalents

Fair value is determined to be the carrying amount for these items because they represent cash or mature in 90 days or less and do not represent unanticipated credit concerns.

NOTE 20 - FAIR VALUE OF FINANCIAL INSTRUMENTS (CONTINUED)

Securities

The fair value of available-for-sale securities is determined based on quoted market prices of the individual securities or, if not available, estimated fair value was obtained by comparison to other known securities with similar risk and maturity characteristics. Such value does not consider possible tax ramifications or estimated transaction costs. The fair value of restricted stock is considered to be its carrying amount.

Loans

Fair value for loans is estimated for portfolios of loans with similar financial characteristics. The Corporation adopted the amendments to ASU 2016-01 relating to the loan portfolio in the year ended December 31, 2018 and an exit price income approach is now used to determine the fair value. Consideration is given to the loans underlying characteristics, including account types, remaining terms, annual interest rates or coupons, interest types, past delinquencies, timing of principal and interest payments, current market rates, loss exposures, and remaining balances. The model utilizes a discounted cash flow approach to estimate the fair value of the loans using assumptions for the coupon rates, remaining maturities, prepayment speeds, and estimates of prevailing discount rates. The model estimates credit losses based on historical charge-off trends. The model applies various assumptions regarding credit, interest, and prepayment risks for the loans based on loan types, payment types and fixed or variable classifications.

As of December 31, 2017, the fair value of loans was estimated based on a discounted cash flow analysis, considering weighted average rates and terms of the portfolio, adjusted for credit and interest rate risk inherent in the loans.

Deposits

The fair value of core deposits, including demand deposits, savings accounts, and certain money market deposits, is the amount payable on demand. The fair value of fixed-maturity certificates of deposit is estimated using the rates offered at year end for deposits of similar remaining maturities. The estimated fair value does not include the benefit that results from the low-cost funding provided by the deposit liabilities compared to the cost of borrowing funds in the marketplace.

Other Financial Instruments and Borrowed Funds

Federal funds purchased and securities sold under repurchase agreements are considered to be short-term borrowings and are valued at carrying value. Borrowed funds are typically long-term in nature with fair value determined based on discounted cash flow analysis using current interest rates.

The fair value estimates of financial instruments are made at a specific point in time based on relevant market information. These estimates are subjective in nature and involve uncertainties and matters of significant judgment and therefore cannot be determined with precision. Changes in assumptions could significantly affect these estimates.

NOTE 21 - COMMITMENTS AND CONTINGENCIES

The Bank has entered into multi-year agreements to lease certain of its facilities, as well as equipment under various short-term operating leases through June 2022. Rent expense under these agreements amounted to \$37,000 in 2018 and \$37,000 in 2017. Future minimum lease payments under long-term operating leases aggregate \$76,000 at December 31, 2018 as follows: \$54,000 in 2019 and \$22,000 in 2020.

In the normal course of business, the Corporation and Bank may be involved in various legal actions, but in the opinion of management and its legal counsel, the ultimate disposition of such matters is not expected to have a material adverse effect on the consolidated financial statements.

LOCATIONS

FREMONT MAIN

323 Croghan Street
Fremont, OH 43420
419-332-7301

FREMONT BALLVILLE

1600 River Street
Fremont, OH 43420
419-355-2361

FREMONT EAST

1315 East State Street
Fremont, OH 43420
419-355-2342

FREMONT NORTH

910 Sean Drive
Fremont, OH 43420
419-334-7188

FREMONT WEST

2001 West State Street
Fremont, OH 43420
419-355-2352

BELLEVUE

One Union Square
Bellevue, OH 44811
419-483-7395

CLYDE

100 North Main Street
Clyde, OH 43410
419-547-9525

CURTICE

7182 North Lucas Street
Curtice, OH 43412
419-836-7722

GREEN SPRINGS

200 North Broadway Street
Green Springs, OH 44836
419-639-2323

MAUMEE LPO

6465 Wheatstone Court, Building A, Suite C
Maumee, OH 43537
419-794-9399

MONROEVILLE

11 Monroe Street
Monroeville, OH 44847
419-465-2596

NORWALK

60 Whittlesey Avenue
Norwalk, OH 44857
419-668-2507

OAK HARBOR

147 West Water Street
Oak Harbor, OH 43449
419-898-5741

OREGON

4157 Navarre Avenue
Oregon, OH 43616
419-691-6264

PORT CLINTON CATAWBA

2820 East Harbor Road
Port Clinton, OH 43452
419-732-6150

PORT CLINTON DOWNTOWN

226 East Perry Street
Port Clinton, OH 43452
419-734-5600

TIFFIN DOWNTOWN

48 East Market Street
Tiffin, OH 44883
419-447-8777

TIFFIN WESTGATE

796 West Market Street
Tiffin, OH 44883
419-447-2250



Back Row, Left to Right:

Jim Bowlus (Lead Director), Rick Robertson, Dan Lease, Jim Faist, Mike Allen Sr, Jim Dunn

Front Row, Left to Right:

Al Mehlow, Tom McLaughlin, Claire Johansen, John Caputo, Gary Zimmerman

Pictured Inside Front Cover:

Kendall Rieman

DIRECTORS EMERITI

Steve Futrell

Don Miller

Bob Moyer

Terry Wolfe

OFFICERS CROGHAN BANCSHARES, INC.

Kendall Rieman
President/Chief Executive Officer

Dan Schloemer
Secretary

Brad Elfring
Treasurer

Amy LeJeune
Assistant Secretary

