CULLEN/FROST BANKERS, INC.

Form 10-K

February 03, 2017

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

ý Annual Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the fiscal year ended: December 31, 2016

Or

"Transition Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the transition period from to Commission file number: 001-13221 CULLEN/FROST BANKERS, INC.

(Exact name of registrant as specified in its charter)

Texas 74-1751768

(I.R.S.

(State or other jurisdiction of **Employer** incorporation or organization) Identification

No.)

78205 100 W. Houston Street, San Antonio, Texas (Address of principal executive offices) (Zip code)

(210) 220-4011

(Registrant's telephone number, including area code) Securities registered pursuant to Section 12(b) of the Act:

Common Stock, \$.01 Par Value

5.375% Non-Cumulative Perpetual Preferred Stock, Series A

(Title of each class)

The New York Stock Exchange, Inc. The New York Stock Exchange, Inc.

(Name of each exchange on which

registered)

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes ý No "

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes " No ý

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ý No " Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes ý No "

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of the registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K, \acute{v} Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, or a non-accelerated filer. See definition of "accelerated filer and large accelerated filer" in Rule 12b-2 of the Exchange Act.

Large accelerated filerý

Accelerated filer

Non-accelerated filer "(Do not check if a smaller reporting company) Smaller reporting company"

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act.) Yes "No ý

As of June 30, 2016, the last business day of the registrant's most recently completed second fiscal quarter, the aggregate market value of the shares of common stock held by non-affiliates, based upon the closing price per share of the registrant's common stock as reported on The New York Stock Exchange, Inc., was approximately \$3.7 billion. As of February 1, 2017, there were 63,753,408 shares of the registrant's common stock, \$.01 par value, outstanding. DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Proxy Statement for the 2017 Annual Meeting of Shareholders of Cullen/Frost Bankers, Inc. to be held on April 27, 2017 are incorporated by reference in this Form 10-K in response to Part III, Items 10, 11, 12, 13 and 14.

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PART I

ITEM 1. BUSINESS

The disclosures set forth in this item are qualified by Item 1A. Risk Factors and the section captioned "Forward-Looking Statements and Factors that Could Affect Future Results" in Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations of this report and other cautionary statements set forth elsewhere in this report.

The Corporation

Cullen/Frost Bankers, Inc., a Texas business corporation incorporated in 1977, is a financial holding company and a bank holding company headquartered in San Antonio, Texas that provides, through its subsidiaries, a broad array of products and services throughout numerous Texas markets. The terms "Cullen/Frost," "the Corporation," "we," "us" and "our" mean Cullen/Frost Bankers, Inc. and its subsidiaries, when appropriate. We offer commercial and consumer banking services, as well as trust and investment management, insurance, brokerage, mutual funds, leasing, treasury management, capital markets advisory and item processing services. At December 31, 2016, Cullen/Frost had consolidated total assets of \$30.2 billion and was one of the largest independent bank holding companies headquartered in the State of Texas.

Our philosophy is to grow and prosper, building long-term relationships based on top quality service, high ethical standards, and safe, sound assets. We operate as a locally-oriented, community-based financial services organization, augmented by experienced, centralized support in select critical areas. Our local market orientation is reflected in our regional management and regional advisory boards, which are comprised of local business persons, professionals and other community representatives that assist our regional management in responding to local banking needs. Despite this local market, community-based focus, we offer many of the products available at much larger money-center financial institutions.

We serve a wide variety of industries including, among others, energy, manufacturing, services, construction, retail, telecommunications, healthcare, military and transportation. Our customer base is similarly diverse. While our loan portfolio has a significant concentration of energy-related loans totaling approximately 11.6% of total loans at December 31, 2016, we are not dependent upon any single industry or customer.

Our operating objectives include expansion, diversification within our markets, growth of our fee-based income, and growth internally and through acquisitions of financial institutions, branches and financial services businesses. We generally seek merger or acquisition partners that are culturally similar and have experienced management and possess either significant market presence or have potential for improved profitability through financial management, economies of scale and expanded services. We regularly evaluate merger and acquisition opportunities and conduct due diligence activities related to possible transactions with other financial institutions and financial services companies. As a result, merger or acquisition discussions and, in some cases, negotiations may take place and future mergers or acquisitions involving cash, debt or equity securities may occur. Acquisitions typically involve the payment of a premium over book and market values, and, therefore, some dilution of our tangible book value and net income per common share may occur in connection with any future transaction. During 2014, we acquired WNB Bancshares, Inc., a privately-held bank holding company headquartered in Odessa, Texas ("WNB"). See Note 2 - Mergers and Acquisitions in the accompanying notes to consolidated financial statements included elsewhere in this report. From time to time, we have also acquired various small businesses through our insurance subsidiary. The aforementioned acquisitions did not have a significant impact on our financial statements during their respective reporting periods.

Our ability to engage in certain merger or acquisition transactions, whether or not any regulatory approval is required, will be dependent upon our bank regulators' views at the time as to the capital levels, quality of management and our overall condition and their assessment of a variety of other factors. Certain merger or acquisition transactions, including those involving the acquisition of a depository institution or the assumption of the deposits of any depository institution, require formal approval from various bank regulatory authorities, which will be subject to a variety of factors and considerations. As part of the approval process in connection with the acquisition of WNB, we agreed with the Board of Governors of the Federal Reserve System (the "Federal Reserve Board") that before bringing it any further expansionary proposals, except for proposed branches serving majority minority areas within our existing

markets, we would enhance certain compliance programs, including those related to fair lending. As of May 27, 2016, the Federal Reserve Board has released us from the expansionary restrictions set forth in that commitment.

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Although Cullen/Frost is a corporate entity, legally separate and distinct from its affiliates, bank holding companies such as Cullen/Frost are required to act as a source of financial strength for their subsidiary banks. The principal source of Cullen/Frost's income is dividends from its subsidiaries. There are certain regulatory restrictions on the extent to which these subsidiaries can pay dividends or otherwise supply funds to Cullen/Frost. See the section captioned "Supervision and Regulation" included elsewhere in this item for further discussion of these matters. Cullen/Frost's executive offices are located at 100 W. Houston Street, San Antonio, Texas 78205, and its telephone number is (210) 220-4011.

Subsidiaries of Cullen/Frost

Frost Bank

Frost Bank, the principal operating subsidiary and sole banking subsidiary of Cullen/Frost, is a Texas-chartered bank primarily engaged in the business of commercial and consumer banking through approximately 136 financial centers across Texas in the Austin, Corpus Christi, Dallas, Fort Worth, Houston, Permian Basin, Rio Grande Valley and San Antonio regions. Frost Bank also operates over 1,200 automated-teller machines ("ATMs") throughout the State of Texas, approximately half of which are operated in connection with a branding arrangement to be the exclusive cash-machine provider for CST Brands, Inc. Corner Stores in Texas. Frost Bank was originally chartered as a national banking association in 1899, but its origin can be traced to a mercantile partnership organized in 1868. At December 31, 2016, Frost Bank had consolidated total assets of \$30.2 billion and total deposits of \$25.9 billion and was one of the largest commercial banks headquartered in the State of Texas.

Significant services offered by Frost Bank include:

Commercial Banking. Frost Bank provides commercial banking services to corporations and other business clients. Loans are made for a wide variety of general corporate purposes, including financing for industrial and commercial properties and to a lesser extent, financing for interim construction related to industrial and commercial properties, financing for equipment, inventories and accounts receivable, and acquisition financing. We also originate commercial leases and offer treasury management services.

Consumer Services. Frost Bank provides a full range of consumer banking services, including checking accounts, savings programs, ATMs, overdraft facilities, installment and real estate loans, home equity loans and lines of credit, drive-in and night deposit services, safe deposit facilities and brokerage services.

International Banking. Frost Bank provides international banking services to customers residing in or dealing with businesses located in Mexico. These services consist of accepting deposits (generally only in U.S. dollars), making loans (generally only in U.S. dollars), issuing letters of credit, handling foreign collections, transmitting funds, and to a limited extent, dealing in foreign exchange.

Correspondent Banking. Frost Bank acts as correspondent for approximately 241 financial institutions, which are primarily banks in Texas. These banks maintain deposits with Frost Bank, which offers them a full range of services including check clearing, transfer of funds, fixed income security services, and securities custody and clearance services.

Trust Services. Frost Bank provides a wide range of trust, investment, agency and custodial services for individual and corporate clients. These services include the administration of estates and personal trusts, as well as the management of investment accounts for individuals, employee benefit plans and charitable foundations. At December 31, 2016, the estimated fair value of trust assets was \$29.3 billion, including managed assets of \$13.4 billion and custody assets of \$15.9 billion.

Capital Markets - Fixed-Income Services. Frost Bank's Capital Markets Division supports the transaction needs of fixed-income institutional investors. Services include sales and trading, new issue underwriting, money market trading, advisory services and securities safekeeping and clearance.

Global Trade Services. Frost Bank's Global Trade Services Division supports international business activities including foreign exchange, international letters of credit and export-import financing, among other things.

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Frost Insurance Agency, Inc.

Frost Insurance Agency, Inc. is a wholly-owned subsidiary of Frost Bank that provides insurance brokerage services to individuals and businesses covering corporate and personal property and casualty insurance products, as well as group health and life insurance products and consulting services.

Frost Brokerage Services, Inc.

Frost Brokerage Services, Inc. ("FBS") is a wholly-owned subsidiary of Frost Bank that provides brokerage services and performs other transactions or operations related to the sale and purchase of securities of all types. FBS is registered as a fully disclosed introducing broker-dealer under the Securities Exchange Act of 1934 and, as such, does not hold any customer accounts.

Frost Investment Advisors, LLC

Frost Investment Advisors is a registered investment advisor and a wholly-owned subsidiary of Frost Bank that provides investment management services to Frost-managed mutual funds, institutions and individuals.

Tri-Frost Corporation

Tri-Frost Corporation is a wholly-owned subsidiary of Frost Bank that primarily holds securities for investment purposes and the receipt of cash flows related to principal and interest on the securities until such time that the securities mature.

Main Plaza Corporation

Main Plaza Corporation is a wholly-owned subsidiary of Cullen/Frost that occasionally makes loans to qualified borrowers. Loans are funded with current cash or borrowings against internal credit lines. Main Plaza also holds severed mineral interests on certain oil producing properties. We receive royalties on these interests based upon production.

Cullen/Frost Capital Trust II and WNB Capital Trust I

Cullen/Frost Capital Trust II ("Trust II") is a Delaware statutory business trust formed in 2004 for the purpose of issuing \$120.0 million in trust preferred securities and lending the proceeds to Cullen/Frost. Cullen/Frost guarantees, on a limited basis, payments of distributions on the trust preferred securities and payments on redemption of the trust preferred securities.

WNB Capital Trust I ("WNB Trust") is a Delaware statutory business trust formed in 2004 for the purpose of issuing \$13.0 million in trust preferred securities and lending the proceeds to WNB. Cullen/Frost, as WNB's successor, guarantees, on a limited basis, payments of distributions on the trust preferred securities and payments on redemption of the trust preferred securities.

Trust II and WNB Trust are variable interest entities for which we are not the primary beneficiary. As such, the accounts of Trust II and WNB Trust are not included in our consolidated financial statements. See our accounting policy related to consolidation in Note 1 - Summary of Significant Accounting Policies in the notes to consolidated financial statements included in Item 8. Financial Statements and Supplementary Data, which is located elsewhere in this report.

Although the accounts of Trust II and WNB Trust are not included in our consolidated financial statements, the \$120.0 million in trust preferred securities issued by Trust II and the \$13.0 million in trust preferred securities issued by WNB Trust were included in the regulatory capital of Cullen/Frost during the reported periods. See the section captioned "Supervision and Regulation - Capital Requirements" for a discussion of the regulatory capital treatment of our trust preferred securities.

Other Subsidiaries

Cullen/Frost has various other subsidiaries that are not significant to the consolidated entity.

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Operating Segments

Our operations are managed along two reportable operating segments consisting of Banking and Frost Wealth Advisors. See the sections captioned "Results of Segment Operations" in Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations and Note 19 - Operating Segments in the notes to consolidated financial statements included in Item 8. Financial Statements and Supplementary Data, which are located elsewhere in this report.

Competition

There is significant competition among commercial banks in our market areas. In addition, we also compete with other providers of financial services, such as savings and loan associations, credit unions, consumer finance companies, securities firms, insurance companies, insurance agencies, commercial finance and leasing companies, full service brokerage firms and discount brokerage firms. Some of our competitors have greater resources and, as such, may have higher lending limits and may offer other services that are not provided by us. We generally compete on the basis of customer service and responsiveness to customer needs, available loan and deposit products, the rates of interest charged on loans, the rates of interest paid for funds, and the availability and pricing of trust, brokerage and insurance services.

Supervision and Regulation

Cullen/Frost, Frost Bank and most of its non-banking subsidiaries are subject to extensive regulation under federal and state laws. The regulatory framework is intended primarily for the protection of depositors, federal deposit insurance funds and the banking system as a whole and not for the protection of shareholders and creditors.

Significant elements of the laws and regulations applicable to Cullen/Frost and its subsidiaries are described below. The description is qualified in its entirety by reference to the full text of the statutes, regulations and policies that are described. Also, such statutes, regulations and policies are continually under review by Congress and state legislatures and federal and state regulatory agencies. A change in statutes, regulations or regulatory policies applicable to Cullen/Frost and its subsidiaries could have a material effect on our business, financial condition or our results of operations. Recent political developments, including the change in administration in the United States, have added additional uncertainty to the implementation, scope and timing of regulatory reforms.

Regulatory Agencies

Cullen/Frost is a legal entity separate and distinct from Frost Bank and its other subsidiaries. As a financial holding company and a bank holding company, Cullen/Frost is regulated under the Bank Holding Company Act of 1956, as amended ("BHC Act"), and it and its subsidiaries are subject to inspection, examination and supervision by the Federal Reserve Board. The BHC Act provides generally for "umbrella" regulation of financial holding companies such as Cullen/Frost by the Federal Reserve Board, and for functional regulation of banking activities by bank regulators, securities activities by securities regulators, and insurance activities by insurance regulators. Cullen/Frost is also under the jurisdiction of the Securities and Exchange Commission ("SEC") and is subject to the disclosure and regulatory requirements of the Securities Act of 1933, as amended, and the Securities Exchange Act of 1934, as amended, as administered by the SEC. Cullen/Frost's common stock is listed on the New York Stock Exchange ("NYSE") under the trading symbol "CFR" and our 5.375% Non-Cumulative Perpetual Preferred Stock, Series A, is listed on the NYSE under the trading symbol "CFRpA." Accordingly, Cullen/Frost is also subject to the rules of the NYSE for listed companies.

Prior to June 2012, Frost Bank was organized as a national banking association under the National Bank Act and was subject to regulation and examination by the Office of the Comptroller of the Currency ("OCC"). In June 2012, Frost Bank became a Texas state chartered bank and a member of the Federal Reserve System. Accordingly, the Texas Department of Banking and the Federal Reserve Board are now the primary regulators of Frost Bank, and Frost Bank is no longer regulated by the OCC. Deposits at Frost Bank continue to be insured by the Federal Deposit Insurance Corporation ("FDIC") up to applicable limits.

All member banks of the Federal Reserve System, including Frost Bank, are required to hold stock in the Federal Reserve System's Reserve Banks in an amount equal to six percent of their capital stock and surplus (half paid to acquire the stock with the remainder held as a cash reserve). Member banks do not have any control over the Federal Reserve System as a result of owning the stock and the stock cannot be sold or traded. Prior to the enactment of the

Fixing America's Surface Transportation Act ("FAST Act") in December 2015, member banks received a fixed, six percent

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dividend annually on their stock. Under the FAST Act, the annual dividend rate for member banks with total assets in excess of \$10 billion, including Frost Bank, changed from a fixed, six percent dividend rate to a floating dividend rate tied to 10-year U.S. Treasuries with the maximum dividend rate capped at six percent. The total amount of stock dividends that Frost Bank received from the Federal Reserve totaled \$734 thousand in 2016, \$2.1 million in 2015 and \$1.9 million in 2014. The decrease in 2016 resulted from the implementation of the aforementioned FAST Act, as the 10-year U.S. Treasury yields used to determine the annual stock dividend rate for 2016 were significantly lower than the fixed, six percent dividend rate used to determine the annual stock dividend rate in 2015 and 2014. Most of our non-bank subsidiaries also are subject to regulation by the Federal Reserve Board and other federal and state agencies. Frost Brokerage Services, Inc. is regulated by the SEC, the Financial Industry Regulatory Authority ("FINRA") and state securities regulators. Frost Investment Advisors, LLC is subject to the disclosure and regulatory requirements of the Investment Advisors Act of 1940, as administered by the SEC. Our insurance subsidiary is subject to regulation by applicable state insurance regulatory agencies. Other non-bank subsidiaries are subject to both federal and state laws and regulations. Frost Bank and its affiliates are also subject to supervision, regulation, examination and enforcement by the Consumer Financial Protection Bureau ("CFPB") with respect to consumer protection laws and regulations.

Bank Holding Company Activities

In general, the BHC Act limits the business of bank holding companies to banking, managing or controlling banks and other activities that the Federal Reserve Board has determined to be so closely related to banking as to be a proper incident thereto. In addition, bank holding companies that qualify and elect to be financial holding companies may engage in any activity, or acquire and retain the shares of a company engaged in any activity, that is either (i) financial in nature or incidental to such financial activity (as determined by the Federal Reserve Board in consultation with the Secretary of the Treasury) or (ii) complementary to a financial activity and does not pose a substantial risk to the safety and soundness of depository institutions or the financial system generally (as solely determined by the Federal Reserve Board), without prior approval of the Federal Reserve Board. Activities that are financial in nature include securities underwriting and dealing, insurance underwriting and making merchant banking investments. To maintain financial holding company status, a financial holding company and all of its depository institution subsidiaries must be "well capitalized" and "well managed." A depository institution subsidiary is considered to be "well capitalized" if it satisfies the requirements for this status discussed in the section captioned "Capital Adequacy and Prompt Corrective Action," included elsewhere in this item. A depository institution subsidiary is considered "well managed" if it received a composite rating and management rating of at least "satisfactory" in its most recent examination. A financial holding company's status will also depend upon it maintaining its status as "well capitalized" and "well managed" under applicable Federal Reserve Board regulations. If a financial holding company ceases to meet these capital and management requirements, the Federal Reserve Board's regulations provide that the financial holding company must enter into an agreement with the Federal Reserve Board to comply with all applicable capital and management requirements. Until the financial holding company returns to compliance, the Federal Reserve Board may impose limitations or conditions on the conduct of its activities, and the company may not commence any of the broader financial activities permissible for financial holding companies or acquire a company engaged in such financial activities without prior approval of the Federal Reserve Board. If the company does not return to compliance within 180 days, the Federal Reserve Board may require divestiture of the holding company's depository institutions. Bank holding companies and banks must also be both well capitalized and well managed in order to acquire banks located outside their home state.

In order for a financial holding company to commence any new activity permitted by the BHC Act or to acquire a company engaged in any new activity permitted by the BHC Act, each insured depository institution subsidiary of the financial holding company must have received a rating of at least "satisfactory" in its most recent examination under the Community Reinvestment Act. See the section captioned "Community Reinvestment Act" included elsewhere in this item.

The Federal Reserve Board has the power to order any bank holding company or its subsidiaries to terminate any activity or to terminate its ownership or control of any subsidiary when the Federal Reserve Board has reasonable grounds to believe that continuation of such activity or such ownership or control constitutes a serious risk to the

financial soundness, safety or stability of any bank subsidiary of the bank holding company. The BHC Act, the Bank Merger Act, the Texas Banking Code and other federal and state statutes regulate acquisitions of commercial banks and their parent holding companies. The BHC Act requires the prior approval of the Federal

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Reserve Board for the direct or indirect acquisition by a bank holding company of more than 5.0% of the voting shares of a commercial bank or its parent holding company. Under the Bank Merger Act, the prior approval of the Federal Reserve Board or other appropriate bank regulatory authority is required for a member bank to merge with another bank or purchase substantially all of the assets or assume any deposits of another bank. In reviewing applications seeking approval of merger and acquisition transactions, the bank regulatory authorities will consider, among other things, the competitive effect and public benefits of the transactions, the capital position of the combined organization, the risks to the stability of the U.S. banking or financial system, the applicant's performance record under the Community Reinvestment Act (see the section captioned "Community Reinvestment Act" included elsewhere in this item) and its compliance with fair housing and other consumer protection laws and the effectiveness of the subject organizations in combating money laundering activities.

Dividends

The principal source of Cullen/Frost's liquidity is dividends from Frost Bank. The prior approval of the Federal Reserve Board is required if the total of all dividends declared by a state-chartered member bank in any calendar year would exceed the sum of the bank's net profits for that year and its retained net profits for the preceding two calendar years, less any required transfers to surplus or to fund the retirement of preferred stock. Federal law also prohibits a state-chartered, member bank from paying dividends that would be greater than the bank's undivided profits. Frost Bank is also subject to limitations under Texas state law regarding the level of dividends that may be paid. Under the foregoing dividend restrictions, and while maintaining its "well capitalized" status, Frost Bank could pay aggregate dividends of approximately \$489.1 million to Cullen/Frost, without obtaining affirmative governmental approvals, at December 31, 2016. This amount is not necessarily indicative of amounts that may be paid or available to be paid in future periods.

In addition, Cullen/Frost and Frost Bank are subject to other regulatory policies and requirements relating to the payment of dividends, including requirements to maintain adequate capital above regulatory minimums. The appropriate federal regulatory authority is authorized to determine under certain circumstances relating to the financial condition of a bank holding company or a bank that the payment of dividends would be an unsafe or unsound practice and to prohibit payment thereof. The appropriate federal regulatory authorities have stated that paying dividends that deplete a bank's capital base to an inadequate level would be an unsafe and unsound banking practice and that banking organizations should generally pay dividends only out of current operating earnings. In addition, in the current financial and economic environment, the Federal Reserve Board has indicated that bank holding companies should carefully review their dividend policy and has discouraged payment ratios that are at maximum allowable levels unless both asset quality and capital are very strong.

In October 2012, as required by the Dodd-Frank Wall Street Reform and Consumer Protection Act (the "Dodd-Frank Act" or "Dodd-Frank"), the Federal Reserve Board published final rules regarding company-run stress testing. The rules require institutions, such as Cullen/Frost and Frost Bank, with average total consolidated assets greater than \$10 billion to conduct an annual company-run stress test of capital, consolidated earnings and losses under one base and at least two stress scenarios provided by the federal bank regulators. Implementation of the rules for covered institutions with total consolidated assets between \$10 billion and \$50 billion began in 2013. The company-run stress tests are conducted using data as of December 31st of the preceding calendar year and scenarios released by the agencies. Stress test results must be reported to the agencies by July 31st with public disclosure of summary stress test results under the severely adverse scenario between October 15th and October 31st. Our capital ratios reflected in the stress test calculations are an important factor considered by the Federal Reserve Board in evaluating the capital adequacy of Cullen/Frost and Frost Bank and whether the appropriateness of any proposed payments of dividends or stock repurchases may be an unsafe or unsound practice.

Transactions with Affiliates

Transactions between Frost Bank and its subsidiaries, on the one hand, and Cullen/Frost or any other subsidiary, on the other hand, are regulated under federal banking law. The Federal Reserve Act imposes quantitative and qualitative requirements and collateral requirements on covered transactions by Frost Bank with, or for the benefit of, its affiliates, and generally requires those transactions to be on terms at least as favorable to Frost Bank as if the transaction were conducted with an unaffiliated third party. Covered transactions are defined by statute to include a

loan or extension of credit, as well as a purchase of securities issued by an affiliate, a purchase of assets (unless otherwise exempted by the Federal Reserve Board) from the affiliate, certain derivative transactions that create a credit exposure to an affiliate, the acceptance of securities issued by the affiliate as collateral for a loan, and the issuance of a guarantee, acceptance

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or letter of credit on behalf of an affiliate. In general, any such transaction by Frost Bank or its subsidiaries must be limited to certain thresholds on an individual and aggregate basis and, for credit transactions with any affiliate, must be secured by designated amounts of specified collateral.

Federal law also limits a bank's authority to extend credit to its directors, executive officers and 10% stockholders, as well as to entities controlled by such persons. Among other things, extensions of credit to insiders are required to be made on terms that are substantially the same as, and follow credit underwriting procedures that are not less stringent than, those prevailing for comparable transactions with unaffiliated persons. Also, the terms of such extensions of credit may not involve more than the normal risk of non-repayment or present other unfavorable features and may not exceed certain limitations on the amount of credit extended to such persons individually and in the aggregate. Source of Strength Doctrine

Federal Reserve Board policy and federal law require bank holding companies to act as a source of financial and managerial strength to their subsidiary banks. Under this requirement, Cullen/Frost is expected to commit resources to support Frost Bank, including at times when Cullen/Frost may not be in a financial position to provide such resources. Any capital loans by a bank holding company to any of its subsidiary banks are subordinate in right of payment to depositors and to certain other indebtedness of such subsidiary banks. In the event of a bank holding company's bankruptcy, any commitment by the bank holding company to a federal bank regulatory agency to maintain the capital of a subsidiary bank will be assumed by the bankruptcy trustee and entitled to priority of payment.

Capital Requirements

Cullen/Frost and Frost Bank are each required to comply with applicable capital adequacy standards established by the Federal Reserve Board. The current risk-based capital standards applicable to Cullen/Frost and Frost Bank, parts of which are currently in the process of being phased-in, are based on the December 2010 final capital framework for strengthening international capital standards, known as Basel III, of the Basel Committee on Banking Supervision (the "Basel Committee").

Prior to January 1, 2015, the risk-based capital standards applicable to Cullen/Frost and Frost Bank (the "general risk-based capital rules") were based on the 1988 Capital Accord, known as Basel I, of the Basel Committee. In July 2013, the federal bank regulators approved final rules (the "Basel III Capital Rules") implementing the Basel III framework as well as certain provisions of the Dodd-Frank Act. The Basel III Capital Rules substantially revised the risk-based capital requirements applicable to bank holding companies and their depository institution subsidiaries, including Cullen/Frost and Frost Bank, as compared to the general risk-based capital rules. The Basel III Capital Rules became effective for Cullen/Frost and Frost Bank on January 1, 2015 (subject to a phase-in period for certain provisions).

The Basel III Capital Rules, among other things, (i) include a new capital measure called "Common Equity Tier 1" ("CET1"), (ii) specify that Tier 1 capital consists of CET1 and "Additional Tier 1 capital" instruments meeting certain revised requirements, (iii) define CET1 narrowly by requiring that most deductions/adjustments to regulatory capital measures be made to CET1 and not to the other components of capital, and (iv) expand the scope of the deductions/adjustments to capital as compared to existing regulations.

Under the Basel III Capital Rules, the minimum capital ratios effective as of January 1, 2015 are:

- 4.5% CET1 to risk-weighted assets;
- 6.0% Tier 1 capital (that is, CET1 plus Additional Tier 1 capital) to risk-weighted assets;
- 8.0% Total capital (that is, Tier 1 capital plus Tier 2 capital) to risk-weighted assets;
- and
- 4.0% Tier 1 capital to average consolidated assets as reported on consolidated financial statements (known as the "leverage ratio").

The Basel III Capital Rules also require a "capital conservation buffer", composed entirely of CET1, on top of these minimum risk-weighted asset ratios. The implementation of the capital conservation buffer began on January 1, 2016 at the 0.625% level and will increase by 0.625% on each subsequent January 1, until it reaches 2.5% on January 1, 2019. The Basel III Capital Rules also provide for a "countercyclical capital buffer" that is only applicable to certain covered institutions and does not have any current applicability to Cullen/Frost or Frost Bank. The capital conservation buffer is designed to absorb losses during periods of economic stress and effectively increases the

minimum required risk-weighted capital ratios. Banking institutions with a ratio of CET1 to risk-weighted assets below the effective

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minimum (4.5% plus the capital conservation buffer and, if applicable, the countercyclical capital buffer) will face constraints on dividends, equity repurchases and compensation based on the amount of the shortfall. When fully phased in on January 1, 2019, the Basel III Capital Rules will require Cullen/Frost and Frost Bank to maintain an additional capital conservation buffer of 2.5% of CET1, effectively resulting in minimum ratios of (i) CET1 to risk-weighted assets of at least 7%, (ii) Tier 1 capital to risk-weighted assets of at least 8.5%, (iii) a minimum ratio of Total capital to risk-weighted assets of at least 10.5%; and (iv) a minimum leverage ratio of 4%. The Basel III Capital Rules also provide for a number of deductions from and adjustments to CET1. These include, for example, the requirement that certain deferred tax assets and significant investments in non-consolidated financial entities be deducted from CET1 to the extent that any one such category exceeds 10% of CET1 or all such items, in the aggregate, exceed 15% of CET1. Implementation of the deductions and other adjustments to CET1 began on January 1, 2015 and will be phased-in over a 4-year period (beginning at 40% on January 1, 2015 and an additional 20% per year thereafter).

In addition, under the general risk-based capital rules, the effects of accumulated other comprehensive income items included in capital were excluded for the purposes of determining regulatory capital ratios. Under the Basel III Capital Rules, the effects of certain accumulated other comprehensive income items are not excluded; however, non-advanced approaches banking organizations, including Cullen/Frost and Frost Bank, were able to make a one-time permanent election to continue to exclude these items. Both Cullen/Frost and Frost Bank made this election in order to avoid significant variations in the level of capital depending upon the impact of interest rate fluctuations on the fair value of their available-for-sale securities portfolio. Under the Basel III Capital Rules, trust preferred securities no longer included in our Tier 1 capital may nonetheless be included as a component of Tier 2 capital on a permanent basis without phase-out.

categories from the general risk-based capital rules to a much larger and more risk-sensitive number of categories, depending on the nature of the assets, generally ranging from 0% for U.S. government and agency securities, to 600% for certain equity exposures, and resulting in higher risk weights for a variety of asset categories. With respect to Frost Bank, the Basel III Capital Rules also revise the "prompt corrective action" regulations pursuant to Section 38 of the Federal Deposit Insurance Act, as discussed below under "Prompt Corrective Action." Management believes that, as of December 31, 2016, Cullen/Frost and Frost Bank would meet all capital adequacy requirements under the Basel III Capital Rules on a fully phased-in basis as if such requirements had been in effect. Liquidity Requirements

The Basel III Capital Rules prescribe a standardized approach for risk weightings that expanded the risk-weighting

Historically, the regulation and monitoring of bank and bank holding company liquidity has been addressed as a supervisory matter, without required formulaic measures. Liquidity risk management has become increasingly important since the financial crisis. The Basel III liquidity framework requires banks and bank holding companies to measure their liquidity against specific liquidity tests that, although similar in some respects to liquidity measures historically applied by banks and regulators for management and supervisory purposes, going forward would be required by regulation. One test, referred to as the liquidity coverage ratio ("LCR"), is designed to ensure that the banking entity maintains an adequate level of unencumbered high-quality liquid assets equal to the entity's expected net cash outflow for a 30-day time horizon (or, if greater, 25% of its expected total cash outflow) under an acute liquidity stress scenario. The other test, referred to as the net stable funding ratio ("NSFR"), is designed to promote more medium- and long-term funding of the assets and activities of banking entities over a one-year time horizon. In September 2014, the federal bank regulators approved final rules implementing the LCR for advanced approaches banking organizations (i.e., banking organizations with \$250 billion or more in total consolidated assets or \$10 billion or more in total on-balance sheet foreign exposure) and a modified version of the LCR for bank holding companies with at least \$50 billion in total consolidated assets that are not advanced approach banking organizations, neither of which would apply to Cullen/Frost or Frost Bank. In the second quarter of 2016, the federal banking regulators issued a proposed rule that would implement the NSFR for certain U.S. banking organizations. The proposed rule would require certain U.S. banking organizations to ensure they have access to stable funding over a one-year time horizon and has an effective date of January 1, 2018. The proposed rule would not apply to U.S. banking organizations with less than \$50 billion in total consolidated assets such as Cullen/Frost and Frost Bank.

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Prompt Corrective Action

The Federal Deposit Insurance Act, as amended ("FDIA"), requires among other things, the federal banking agencies to take "prompt corrective action" in respect of depository institutions that do not meet minimum capital requirements. The FDIA includes the following five capital tiers: "well capitalized," "adequately capitalized," "undercapitalized," "significantly undercapitalized" and "critically undercapitalized." A depository institution's capital tier will depend upon how its capital levels compare with various relevant capital measures and certain other factors, as established by regulation. The relevant capital measures, which reflect changes under the Basel III Capital Rules that became effective on January 1, 2015, are the total capital ratio, the CET1 capital ratio, the Tier 1 capital ratio and the leverage ratio. A bank will be (i) "well capitalized" if the institution has a total risk-based capital ratio of 10.0% or greater, a CET1 capital ratio of 6.5% or greater, a Tier 1 risk-based capital ratio of 8.0% or greater, and a leverage ratio of 5.0% or greater, and is not subject to any order or written directive by any such regulatory authority to meet and maintain a specific capital level for any capital measure; (ii) "adequately capitalized" if the institution has a total risk-based capital ratio of 8.0% or greater, a CET1 capital ratio of 4.5% or greater, a Tier 1 risk-based capital ratio of 6.0% or greater, and a leverage ratio of 4.0% or greater and is not "well capitalized"; (iii) "undercapitalized" if the institution has a total risk-based capital ratio that is less than 8.0%, a CET1 capital ratio less than 4.5%, a Tier 1 risk-based capital ratio of less than 6.0% or a leverage ratio of less than 4.0%; (iv) "significantly undercapitalized" if the institution has a total risk-based capital ratio of less than 6.0%, a CET1 capital ratio less than 3.0%, a Tier 1 risk-based capital ratio of less than 4.0% or a leverage ratio of less than 3.0%; and (v) "critically undercapitalized" if the institution's tangible equity is equal to or less than 2.0% of average quarterly tangible assets. An institution may be downgraded to, or deemed to be in, a capital category that is lower than indicated by its capital ratios if it is determined to be in an unsafe or unsound condition or if it receives an unsatisfactory examination rating with respect to certain matters. A bank's capital category is determined solely for the purpose of applying prompt corrective action regulations, and the capital category may not constitute an accurate representation of the bank's overall financial condition or prospects for other purposes.

The FDIA generally prohibits a depository institution from making any capital distributions (including payment of a dividend) or paying any management fee to its parent holding company if the depository institution would thereafter be "undercapitalized." "Undercapitalized" institutions are subject to growth limitations and are required to submit a capital restoration plan. The agencies may not accept such a plan without determining, among other things, that the plan is based on realistic assumptions and is likely to succeed in restoring the depository institution's capital. In addition, for a capital restoration plan to be acceptable, the depository institution's parent holding company must guarantee that the institution will comply with such capital restoration plan. The bank holding company must also provide appropriate assurances of performance. The aggregate liability of the parent holding company is limited to the lesser of (i) an amount equal to 5.0% of the depository institution's total assets at the time it became undercapitalized and (ii) the amount which is necessary (or would have been necessary) to bring the institution into compliance with all capital standards applicable with respect to such institution as of the time it fails to comply with the plan. If a depository institution fails to submit an acceptable plan, it is treated as if it is "significantly undercapitalized."

"Significantly undercapitalized" depository institutions may be subject to a number of requirements and restrictions, including orders to sell sufficient voting stock to become "adequately capitalized" requirements to reduce total assets

"Significantly undercapitalized" depository institutions may be subject to a number of requirements and restrictions, including orders to sell sufficient voting stock to become "adequately capitalized," requirements to reduce total assets, and cessation of receipt of deposits from correspondent banks. "Critically undercapitalized" institutions are subject to the appointment of a receiver or conservator.

The appropriate federal banking agency may, under certain circumstances, reclassify a well capitalized insured depository institution as adequately capitalized. The FDIA provides that an institution may be reclassified if the appropriate federal banking agency determines (after notice and opportunity for hearing) that the institution is in an unsafe or unsound condition or deems the institution to be engaging in an unsafe or unsound practice.

The appropriate agency is also permitted to require an adequately capitalized or undercapitalized institution to comply with the supervisory provisions as if the institution were in the next lower category (but not treat a significantly undercapitalized institution as critically undercapitalized) based on supervisory information other than the capital levels of the institution.

Cullen/Frost believes that, as of December 31, 2016, its bank subsidiary, Frost Bank, was "well capitalized" based on the aforementioned ratios. For further information regarding the capital ratios and leverage ratio of Cullen/Frost and Frost Bank see the discussion under the section captioned "Capital and Liquidity" included in Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations and Note 10 - Capital and Regulatory Matters

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in the notes to consolidated financial statements included in Item 8. Financial Statements and Supplementary Data, elsewhere in this report.

Safety and Soundness Standards

The FDIA requires the federal bank regulatory agencies to prescribe standards, by regulations or guidelines, relating to internal controls, information systems and internal audit systems, loan documentation, credit underwriting, interest rate risk exposure, asset growth, asset quality, earnings, stock valuation and compensation, fees and benefits, and such other operational and managerial standards as the agencies deem appropriate. Guidelines adopted by the federal bank regulatory agencies establish general standards relating to internal controls and information systems, internal audit systems, loan documentation, credit underwriting, interest rate exposure, asset growth and compensation, fees and benefits. In general, the guidelines require, among other things, appropriate systems and practices to identify and manage the risk and exposures specified in the guidelines. The guidelines prohibit excessive compensation as an unsafe and unsound practice and describe compensation as excessive when the amounts paid are unreasonable or disproportionate to the services performed by an executive officer, employee, director or principal stockholder. In addition, the agencies adopted regulations that authorize, but do not require, an agency to order an institution that has been given notice by an agency that it is not satisfying any of such safety and soundness standards to submit a compliance plan. If, after being so notified, an institution fails to submit an acceptable compliance plan or fails in any material respect to implement an acceptable compliance plan, the agency must issue an order directing action to correct the deficiency and may issue an order directing other actions of the types to which an undercapitalized institution is subject under the "prompt corrective action" provisions of the FDIA. See "Prompt Corrective Action" above. If an institution fails to comply with such an order, the agency may seek to enforce such order in judicial proceedings and to impose civil money penalties.

Deposit Insurance

Substantially all of the deposits of Frost Bank are insured up to applicable limits by the Deposit Insurance Fund ("DIF") of the FDIC and are subject to deposit insurance assessments to maintain the DIF. Deposit insurance assessments are based on average total assets minus average tangible equity. For larger institutions, such as Frost Bank, the FDIC uses a performance score and a loss-severity score that are used to calculate an initial assessment rate. In calculating these scores, the FDIC uses a bank's capital level and supervisory ratings (its "CAMELS ratings") and certain financial measures to assess an institution's ability to withstand asset-related stress and funding-related stress. The FDIC has the ability to make discretionary adjustments to the total score based upon significant risk factors that are not adequately captured in the calculations.

In October 2010, the FDIC adopted a new DIF restoration plan to ensure that the fund reserve ratio reaches 1.35% by September 30, 2020, as required by the Dodd-Frank Act. In August 2016, the FDIC announced that the DIF reserve ratio had surpassed 1.15% as of June 30, 2016. As a result, beginning in the third quarter of 2016, the range of initial assessment ranges for all institutions were adjusted downward such that the initial base deposit insurance assessment rate ranges from 3 to 30 basis points on an annualized basis. After the effect of potential base-rate adjustments, the total base assessment rate could range from 1.5 to 40 basis points on an annualized basis. In March 2016, the FDIC adopted a final rule increasing the reserve ratio for the Deposit Insurance Fund to 1.35% of total insured deposits. The rule imposes a surcharge on the assessments of depository institutions with \$10 billion or more in assets, including Frost Bank, beginning the third quarter of 2016 and continuing through the earlier of the quarter that the reserve ratio first reaches or exceeds 1.35% and December 31, 2018. This surcharge resulted in increased costs for Frost Bank in 2016.

FDIC deposit insurance expense totaled \$17.4 million, \$14.5 million and \$13.2 million in 2016, 2015 and 2014, respectively. FDIC deposit insurance expense includes deposit insurance assessments and Financing Corporation ("FICO") assessments related to outstanding FICO bonds. The FICO is a mixed-ownership government corporation established by the Competitive Equality Banking Act of 1987 whose sole purpose was to function as a financing vehicle for the now defunct Federal Savings & Loan Insurance Corporation.

Under the FDIA, the FDIC may terminate deposit insurance upon a finding that the institution has engaged in unsafe and unsound practices, is in an unsafe or unsound condition to continue operations, or has violated any applicable law, regulation, rule, order or condition imposed by the FDIC.

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Enhanced Prudential Standards

The Dodd-Frank Act directed the Federal Reserve Board to monitor emerging risks to financial stability and enact enhanced supervision and prudential standards applicable to bank holding companies with total consolidated assets of \$50 billion or more and non-bank covered companies designated as systemically important by the Financial Stability Oversight Council (often referred to as systemically important financial institutions). The Dodd-Frank Act mandates that certain regulatory requirements applicable to systemically important financial institutions be more stringent than those applicable to other financial institutions.

In February 2014, the Federal Reserve adopted rules to implement certain of these enhanced prudential standards. Beginning in 2015, the rules require publicly traded bank holding companies with \$10 billion or more in total consolidated assets to establish risk committees and require bank holding companies with \$50 billion or more in total consolidated assets to comply with enhanced liquidity and overall risk management standards. Cullen/Frost has established a risk committee and is in compliance with this requirement.

We are monitoring developments with respect to the enhanced prudential standards because of their application to us if our total consolidated assets reach \$50 billion or more.

The Volcker Rule

The so-called Volcker Rule under the Dodd-Frank Act prohibits banks and their affiliates from engaging in proprietary trading and investing in and sponsoring hedge funds and private equity funds. The Volcker Rule, which became effective in July 2015, does not significantly impact the operations of Cullen/Frost and its subsidiaries, as we do not have any significant engagement in the businesses prohibited by the Volcker Rule.

Depositor Preference

The FDIA provides that, in the event of the "liquidation or other resolution" of an insured depository institution, the claims of depositors of the institution, including the claims of the FDIC as subrogee of insured depositors, and certain claims for administrative expenses of the FDIC as a receiver, will have priority over other general unsecured claims against the institution. If an insured depository institution fails, insured and uninsured depositors, along with the FDIC, will have priority in payment ahead of unsecured, non-deposit creditors, including depositors whose deposits are payable only outside of the United States and the parent bank holding company, with respect to any extensions of credit they have made to such insured depository institution.

Interchange Fees

Under the Durbin Amendment to the Dodd-Frank Act, the Federal Reserve adopted rules establishing standards for assessing whether the interchange fees that may be charged with respect to certain electronic debit transactions are "reasonable and proportional" to the costs incurred by issuers for processing such transactions.

Interchange fees, or "swipe" fees, are charges that merchants pay to us and other card-issuing banks for processing electronic payment transactions. Federal Reserve Board rules applicable to financial institutions that have assets of \$10 billion or more provide that the maximum permissible interchange fee for an electronic debit transaction is the sum of 21 cents per transaction and 5 basis points multiplied by the value of the transaction. An upward adjustment of no more than 1 cent to an issuer's debit card interchange fee is allowed if the card issuer develops and implements policies and procedures reasonably designed to achieve certain fraud-prevention standards. The Federal Reserve Board also has rules governing routing and exclusivity that require issuers to offer two unaffiliated networks for routing transactions on each debit or prepaid product.

Consumer Financial Protection

We are subject to a number of federal and state consumer protection laws that extensively govern our relationship with our customers. These laws include the Equal Credit Opportunity Act, the Fair Credit Reporting Act, the Truth in Lending Act, the Truth in Savings Act, the Electronic Fund Transfer Act, the Expedited Funds Availability Act, the Home Mortgage Disclosure Act, the Fair Housing Act, the Real Estate Settlement Procedures Act, the Fair Debt Collection Practices Act, the Service Members Civil Relief Act and these laws' respective state-law counterparts, as well as state usury laws and laws regarding unfair and deceptive acts and practices. These and other federal laws, among other things, require disclosures of the cost of credit and terms of deposit accounts, provide substantive consumer rights, prohibit discrimination in credit transactions, regulate the use of credit report information, provide financial privacy

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protections, prohibit unfair, deceptive and abusive practices, restrict our ability to raise interest rates and subject us to substantial regulatory oversight. Violations of applicable consumer protection laws can result in significant potential liability from litigation brought by customers, including actual damages, restitution and attorneys' fees. Federal bank regulators, state attorneys general and state and local consumer protection agencies may also seek to enforce consumer protection requirements and obtain these and other remedies, including regulatory sanctions, customer rescission rights, action by the state and local attorneys general in each jurisdiction in which we operate and civil money penalties. Failure to comply with consumer protection requirements may also result in our failure to obtain any required bank regulatory approval for merger or acquisition transactions we may wish to pursue or our prohibition from engaging in such transactions even if approval is not required.

The Consumer Financial Protection Bureau ("CFPB") is a federal agency responsible for implementing, examining and enforcing compliance with federal consumer protection laws. The CFPB focuses on:

Risks to consumers and compliance with the federal consumer financial laws, when it evaluates the policies and practices of a financial institution.

The markets in which firms operate and risks to consumers posed by activities in those markets.

Depository institutions that offer a wide variety of consumer financial products and services.

Depository institutions with a more specialized focus.

Non-depository companies that offer one or more consumer financial products or services.

The CFPB has broad rulemaking authority for a wide range of consumer financial laws that apply to all banks, including, among other things, the authority to prohibit "unfair, deceptive or abusive" acts and practices. Abusive acts or practices are defined as those that materially interfere with a consumer's ability to understand a term or condition of a consumer financial product or service or take unreasonable advantage of a consumer's (i) lack of financial savvy, (ii) inability to protect himself in the selection or use of consumer financial products or services, or (iii) reasonable reliance on a covered entity to act in the consumer's interests. The CFPB can issue cease-and-desist orders against banks and other entities that violate consumer financial laws. The CFPB may also institute a civil action against an entity in violation of federal consumer financial law in order to impose a civil penalty or injunction. The CFPB has examination and enforcement authority over all banks with more than \$10 billion in assets, as well as their affiliates. Banking regulators take into account compliance with consumer protection laws when considering approval of a proposed transaction.

Community Reinvestment Act

The Community Reinvestment Act of 1977 ("CRA") requires depository institutions to assist in meeting the credit needs of their market areas consistent with safe and sound banking practice. Under the CRA, each depository institution is required to help meet the credit needs of its market areas by, among other things, providing credit to low- and moderate-income individuals and communities. Depository institutions are periodically examined for compliance with the CRA and are assigned ratings. In order for a financial holding company to commence any new activity permitted by the BHC Act, or to acquire any company engaged in any new activity permitted by the BHC Act, each insured depository institution subsidiary of the financial holding company must have received a rating of at least "satisfactory" in its most recent examination under the CRA. Furthermore, banking regulators take into account CRA ratings when considering a request for an approval of a proposed transaction. Frost Bank received a rating of "satisfactory" in its most recent CRA examination in 2015.

Financial Privacy

The federal banking regulators adopted rules that limit the ability of banks and other financial institutions to disclose non-public information about consumers to nonaffiliated third parties. These limitations require disclosure of privacy policies to consumers and, in some circumstances, allow consumers to prevent disclosure of certain personal information to a nonaffiliated third party. These regulations affect how consumer information is transmitted through diversified financial companies and conveyed to outside vendors.

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Anti-Money Laundering and the USA Patriot Act

A major focus of governmental policy on financial institutions in recent years has been aimed at combating money laundering and terrorist financing. The USA PATRIOT Act of 2001, or the USA Patriot Act, substantially broadened the scope of United States anti-money laundering laws and regulations by imposing significant new compliance and due diligence obligations, creating new crimes and penalties and expanding the extra-territorial jurisdiction of the United States. Financial institutions are also prohibited from entering into specified financial transactions and account relationships and must use enhanced due diligence procedures in their dealings with certain types of high-risk customers and implement a written customer identification program. Financial institutions must take certain steps to assist government agencies in detecting and preventing money laundering and report certain types of suspicious transactions. Regulatory authorities routinely examine financial institutions for compliance with these obligations, and failure of a financial institution to maintain and implement adequate programs to combat money laundering and terrorist financing, or to comply with all of the relevant laws or regulations, could have serious legal and reputational consequences for the institution, including causing applicable bank regulatory authorities not to approve merger or acquisition transactions when regulatory approval is required or to prohibit such transactions even if approval is not required. Regulatory authorities have imposed cease and desist orders and civil money penalties against institutions found to be violating these obligations.

Office of Foreign Assets Control Regulation

The U.S. Treasury Department's Office of Foreign Assets Control, or OFAC, administers and enforces economic and trade sanctions against targeted foreign countries and regimes, under authority of various laws, including designated foreign countries, nationals and others. OFAC publishes lists of specially designated targets and countries. We are responsible for, among other things, blocking accounts of, and transactions with, such targets and countries, prohibiting unlicensed trade and financial transactions with them and reporting blocked transactions after their occurrence. Failure to comply with these sanctions could have serious legal and reputational consequences, including causing applicable bank regulatory authorities not to approve merger or acquisition transactions when regulatory approval is required or to prohibit such transactions even if approval is not required.

Incentive Compensation

The Federal Reserve Board reviews, as part of its regular, risk-focused examination process, the incentive compensation arrangements of banking organizations, such as Cullen/Frost, that are not "large, complex banking organizations." These reviews are tailored to each organization based on the scope and complexity of the organization's activities and the prevalence of incentive compensation arrangements. The findings of this supervisory initiative will be included in reports of examination. Deficiencies will be incorporated into the organization's supervisory ratings, which can affect the organization's ability to make acquisitions and take other actions. Enforcement actions may be taken against a banking organization if its incentive compensation arrangements, or related risk-management control or governance processes, pose a risk to the organization's safety and soundness and the organization is not taking prompt and effective measures to correct the deficiencies.

In June 2010, the Federal Reserve Board, OCC and FDIC issued comprehensive final guidance on incentive compensation policies intended to ensure that the incentive compensation policies of banking organizations do not undermine the safety and soundness of such organizations by encouraging excessive risk-taking. The guidance, which covers all employees that have the ability to materially affect the risk profile of an organization, either individually or as part of a group, is based upon the key principles that a banking organization's incentive compensation arrangements should (i) provide incentives that do not encourage risk-taking beyond the organization's ability to effectively identify and manage risks, (ii) be compatible with effective internal controls and risk management, and (iii) be supported by strong corporate governance, including active and effective oversight by the organization's board of directors. During the second quarter of 2016, the U.S. financial regulators, including the Federal Reserve Board and the SEC, proposed revised rules on incentive-based payment arrangements at specified regulated entities having at least \$1 billion in total assets (including Cullen/Frost and Frost Bank). The proposed revised rules would establish general qualitative requirements applicable to all covered entities, which would include (i) prohibiting incentive arrangements that encourage inappropriate risks by providing excessive compensation; (ii) prohibiting incentive arrangements that encourage inappropriate risks that could lead to a material financial loss; (iii) establishing requirements for

performance measures to appropriately balance risk and reward; (iv) requiring board of director oversight of incentive arrangements; and (v) mandating appropriate record-keeping. Under the proposed rule, larger financial institutions with total consolidated assets of at least \$50 billion would also be subject to additional requirements applicable to such institutions'

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"senior executive officers" and "significant risk-takers." These additional requirements would not be applicable to Cullen/Frost or Frost Bank, each of which currently have less than \$50 billion in total consolidated assets. Cybersecurity

In March 2015, federal regulators issued two related statements regarding cybersecurity. One statement indicates that financial institutions should design multiple layers of security controls to establish lines of defense and to ensure that their risk management processes also address the risk posed by compromised customer credentials, including security measures to reliably authenticate customers accessing internet-based services of the financial institution. The other statement indicates that a financial institution's management is expected to maintain sufficient business continuity planning processes to ensure the rapid recovery, resumption and maintenance of the institution's operations after a cyber-attack involving destructive malware. A financial institution is also expected to develop appropriate processes to enable recovery of data and business operations and address rebuilding network capabilities and restoring data if the institution or its critical service providers fall victim to this type of cyber-attack. If we fail to observe the regulatory guidance, we could be subject to various regulatory sanctions, including financial penalties.

In the ordinary course of business, we rely on electronic communications and information systems to conduct our operations and to store sensitive data. We employ an in-depth, layered, defensive approach that leverages people, processes and technology to manage and maintain cybersecurity controls. We employ a variety of preventative and detective tools to monitor, block, and provide alerts regarding suspicious activity, as well as to report on any suspected advanced persistent threats. Notwithstanding the strength of our defensive measures, the threat from cyber attacks is severe, attacks are sophisticated and increasing in volume, and attackers respond rapidly to changes in defensive measures. While to date, we have not experienced a significant compromise, significant data loss or any material financial losses related to cybersecurity attacks, our systems and those of our customers and third-party service providers are under constant threat and it is possible that we could experience a significant event in the future. Risks and exposures related to cybersecurity attacks are expected to remain high for the foreseeable future due to the rapidly evolving nature and sophistication of these threats, as well as due to the expanding use of Internet banking, mobile banking and other technology-based products and services by us and our customers. See Item 1A. Risk Factors for a further discussion of risks related to cybersecurity.

Future Legislation and Regulation

Congress may enact legislation from time to time that affects the regulation of the financial services industry, and state legislatures may enact legislation from time to time affecting the regulation of financial institutions chartered by or operating in those states. Federal and state regulatory agencies also periodically propose and adopt changes to their regulations or change the manner in which existing regulations are applied. The substance or impact of pending or future legislation or regulation, or the application thereof, cannot be predicted, although enactment of the proposed legislation could impact the regulatory structure under which we operate and may significantly increase costs, impede the efficiency of internal business processes, require an increase in regulatory capital, require modifications to our business strategy, and limit our ability to pursue business opportunities in an efficient manner. A change in statutes, regulations or regulatory policies applicable to Cullen/Frost or any of its subsidiaries could have a material, adverse effect on our business, financial condition and results of operations.

Employees

At December 31, 2016, we employed 4,217 full-time equivalent employees. None of our employees are represented by collective bargaining agreements. We believe our employee relations to be good.

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Executive Officers of the Registrant

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The names, ages as of December 31, 2016, recent business experience and positions or offices held by each of the executive officers of Cullen/Frost are as follows:

Held

Name and Position Age Recent Business Experience

Phillip D. Green Chairman of the Board, Chief Executive Officer and

Officer of Frost Bank since July 1980. Group Executive Vice President, Chief Financial Officer of Cullen/Frost from October 1995 to January 2015. President of Cullen/Frost from January 2015 to March 2016. Chairman of the Board and Chief Executive Officer of Cullen/Frost from April 2016 to present.

Cullen/Frost Patrick B. Frost Director of Cullen/Frost. President of

Director of

Frost Bank, Group **Executive Vice** President, Frost Wealth Advisors of Frost

Officer of Frost Bank since 1985. President of Frost Bank from August 1993 to present. Director of Cullen/Frost from May 1997 to present. Group Executive Vice President, Frost Wealth Advisors of Frost Bank from April 2016 to present. President of Frost Insurance from October 2014 to present.

Bank and

President of Frost Insurance

Jerry Salinas **Group Executive** Vice President, Chief Financial Officer

Officer of Frost Bank since January 1986. Senior Executive Vice President, Treasurer of 58 Cullen/Frost from 1997 to January 2015. Group Executive Vice President, Chief Financial Officer of Cullen/Frost from January 2015 to present.

of Cullen/Frost Annette Alonzo **Group Executive** Vice President, Chief **Human Resources** Officer of Frost Bank

Officer of Frost Bank since 1993. Executive Vice President, Human Resources of Frost Bank from July 2006 to January 2015. Senior Executive Vice President, Human Resources of Frost Bank from January 2015 to July 2015. Group Executive Vice President, Human Resources of Frost Bank from July 2015 to March 2016. Group Executive Vice President, Chief Human Resources Officer of Frost Bank from April 2016 to present.

Robert A. Berman **Group Executive**

Vice President, Research and Strategy of Frost Bank

- Officer of Frost Bank since January 1989. Group Executive Vice President, Research and Strategy of Frost Bank from May 2001 to present.
- Paul H. Bracher President of Cullen/Frost and Group
- 60 Officer of Frost Bank since January 1982. President, State Regions of Frost Bank from February 2001 to January 2015. Group Executive Vice President, Chief Banking Officer of Frost Bank from January 2015 to present. President of Cullen/Frost from April 2016 to present.

Executive Vice President, Chief **Banking Officer** of Frost Bank Gary McKnight Group Executive Officer of Frost Bank since 1981. Senior Executive Vice President, Technology and Vice President, 63 Operations of Frost Bank from January 2005 to July 2015. Group Executive Vice President, Technology and Technology and Operations of Frost Bank from July 2015 to present. Operations of Frost Bank Paul J. Olivier **Group Executive** Vice President. Officer of Frost Bank since August 1976. Group Executive Vice President, Chief Consumer Chief 64 Banking Officer of Frost Bank from May 2001 to present. Consumer Banking Officer of Frost Bank William L. Perotti **Group Executive** Officer of Frost Bank since December 1982. Group Executive Vice President, Chief Credit Vice President, 59 Officer of Frost Bank from May 2001 to January 2015. Group Executive Vice President, Chief Chief Risk Officer of Frost Bank from April 2005 to present. Risk Officer of Frost Bank Jimmy Stead **Group Executive** Officer of Frost Bank since July 2001. Senior Vice President Electronic Commerce Vice President. Operations of Frost Bank from October 2007 to December 2015, Executive Vice President, Executive Officer 41 Electronic Commerce Operations of Frost Bank from January 2016 to January 2017. Group - Consumer Executive Vice President, Executive Officer Consumer Banking of Frost Bank from January **Banking** 2017 to present. of Frost Bank Candace Wolfshohl **Group Executive** Officer of Frost Bank since 1989. Executive Vice President, Staff Development of Frost Bank Vice President. from January 2008 to January 2015. Senior Executive Vice President, Staff Development of Culture Frost Bank from January 2015 to July 2015. Group Executive Vice President, Culture and and People

There are no arrangements or understandings between any executive officer of Cullen/Frost and any other person pursuant to which such executive officer was or is to be selected as an officer.

People Development of Frost Bank from July 2015 to present.

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Development of Frost Bank

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Available Information

Under the Securities Exchange Act of 1934, we are required to file annual, quarterly and current reports, proxy statements and other information with the Securities and Exchange Commission ("SEC"). You may read and copy any document we file with the SEC at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information about the public reference room. The SEC maintains a website at http://www.sec.gov that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC. We file electronically with the SEC.

We make available, free of charge through our website, our reports on Forms 10-K, 10-Q and 8-K, and amendments to those reports, as soon as reasonably practicable after such reports are filed with or furnished to the SEC. Additionally, we have adopted and posted on our website a code of ethics that applies to our principal executive officer, principal financial officer and principal accounting officer. Our website also includes our corporate governance guidelines and the charters for our audit committee, our compensation and benefits committee, our risk committee, and our corporate governance and nominating committee. The address for our website is http://www.frostbank.com. We will provide a printed copy of any of the aforementioned documents to any requesting shareholder.

ITEM 1A. RISK FACTORS

An investment in our common stock is subject to risks inherent to our business. The material risks and uncertainties that management believes affect us are described below. Before making an investment decision, you should carefully consider the risks and uncertainties described below together with all of the other information included or incorporated by reference in this report. The risks and uncertainties described below are not the only ones facing us. Additional risks and uncertainties that management is not aware of or focused on or that management currently deems immaterial may also impair our business operations. This report is qualified in its entirety by these risk factors. If any of the following risks actually occur, our business, financial condition and results of operations could be materially and adversely affected. If this were to happen, the market price of our common stock could decline significantly, and you could lose all or part of your investment.

Risks Related To Our Business

Our Business May Be Adversely Affected By Conditions In The Financial Markets and Economic Conditions Generally

In recent years, economic growth and business activity across a wide range of industries and regions in the U.S. has been slow and uneven. Furthermore, there are continuing concerns related to the level of U.S. government debt and fiscal actions that may be taken to address that debt. There can be no assurance that economic conditions will continue to improve, and these conditions could worsen. In addition, oil price volatility, the level of U.S. debt and global economic conditions have had a destabilizing effect on financial markets.

Our financial performance generally, and in particular the ability of borrowers to pay interest on and repay principal of outstanding loans and the value of collateral securing those loans, as well as demand for loans and other products and services we offer, is highly dependent upon the business environment in the markets where we operate, in the State of Texas and in the United States as a whole. A favorable business environment is generally characterized by, among other factors, economic growth, efficient capital markets, low inflation, low unemployment, high business and investor confidence, and strong business earnings. Unfavorable or uncertain economic and market conditions can be caused by declines in economic growth, business activity or investor or business confidence; limitations on the availability or increases in the cost of credit and capital; increases in inflation or interest rates; high unemployment, natural disasters; or a combination of these or other factors.

Overall, during recent years, the business environment has been adverse for many households and businesses in the United States and worldwide. While economic conditions in the State of Texas, the United States and worldwide have improved, there can be no assurance that this improvement will continue. Economic pressure on consumers and uncertainty regarding continuing economic improvement may result in changes in consumer and business spending, borrowing and savings habits. Such conditions, as well as further oil price volatility, could have a material adverse effect on the credit quality of our loans and our business, financial condition and results of operations.

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We Are Subject To Lending Risk

There are inherent risks associated with our lending activities. These risks include, among other things, the impact of changes in interest rates and changes in the economic conditions in the markets where we operate as well as those across the State of Texas and the United States. Increases in interest rates and/or weakening economic conditions could adversely impact the ability of borrowers to repay outstanding loans or the value of the collateral securing these loans. We are also subject to various laws and regulations that affect our lending activities. Failure to comply with applicable laws and regulations could subject us to regulatory enforcement action that could result in the assessment of significant civil money penalties against us.

As of December 31, 2016, approximately 88.2% of our loan portfolio consisted of commercial and industrial, energy, construction and commercial real estate mortgage loans. These types of loans are generally viewed as having more risk of default than residential real estate loans or consumer loans. These types of loans are also typically larger than residential real estate loans and consumer loans. Because our loan portfolio contains a significant number of commercial and industrial, energy, construction and commercial real estate loans with relatively large balances, the deterioration of one or a few of these loans could cause a significant increase in non-performing loans. An increase in non-performing loans could result in a net loss of earnings from these loans, an increase in the provision for loan losses and an increase in loan charge-offs, all of which could have a material adverse effect on our business, financial condition and results of operations.

See the section captioned "Loans" in Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations located elsewhere in this report for further discussion related to commercial and industrial, energy, construction and commercial real estate loans.

We Are Subject To Interest Rate Risk

Our earnings and cash flows are largely dependent upon our net interest income. Net interest income is the difference between interest income earned on interest-earning assets such as loans and securities and interest expense paid on interest-bearing liabilities such as deposits and borrowed funds. Interest rates are highly sensitive to many factors that are beyond our control, including general economic conditions and policies of various governmental and regulatory agencies and, in particular, the Federal Open Market Committee. Changes in monetary policy, including changes in interest rates, could influence not only the interest we receive on loans and securities and the amount of interest we pay on deposits and borrowings, but such changes could also affect (i) our ability to originate loans and obtain deposits, (ii) the fair value of our financial assets and liabilities, and (iii) the average duration of our mortgage-backed securities portfolio. If the interest rates paid on deposits and other borrowings increase at a faster rate than the interest rates received on loans and other investments, our net interest income, and therefore earnings, could be adversely affected. Earnings could also be adversely affected if the interest rates received on loans and other investments fall more quickly than the interest rates paid on deposits and other borrowings. Any substantial, unexpected, prolonged change in market interest rates could have a material adverse effect on our business, financial condition and results of operations.

See Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations under the section captioned "Net Interest Income" and Item 7A. Quantitative and Qualitative Disclosures About Market Risk located elsewhere in this report for further discussion related to interest rate sensitivity and our management of interest rate risk.

Our Allowance For Loan Losses May Be Insufficient

We maintain an allowance for loan losses, which is a reserve established through a provision for loan losses charged to expense, which represents management's best estimate of inherent losses that have been incurred within the existing portfolio of loans. The allowance, in the judgment of management, is necessary to reserve for estimated loan losses and risks inherent in the loan portfolio. The level of the allowance reflects management's continuing evaluation of industry concentrations; specific credit risks; loan loss experience; current loan portfolio quality; present economic, political and regulatory conditions and unidentified losses inherent in the current loan portfolio. The determination of the appropriate level of the allowance for loan losses inherently involves a high degree of subjectivity and requires us to make significant estimates of current credit risks and future trends, all of which may undergo material changes. Continuing deterioration in economic conditions affecting borrowers, new information regarding existing loans,

identification of additional problem loans and other factors, both within and outside of our control, may require an increase in the allowance for loan losses. In addition, bank regulatory agencies periodically review our allowance for loan losses and may require an increase in the provision for loan losses or the recognition of further loan charge-offs,

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based on judgments different than those of management. Furthermore, if charge-offs in future periods exceed the allowance for loan losses, we will need additional provisions to increase the allowance for loan losses. Any increases in the allowance for loan losses will result in a decrease in net income and, possibly, capital, and may have a material adverse effect on our business, financial condition and results of operations.

See the section captioned "Allowance for Loan Losses" in Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations located elsewhere in this report for further discussion related to our process for determining the appropriate level of the allowance for loan losses.

Our Profitability Depends Significantly On Economic Conditions In The State Of Texas

Our success depends primarily on the general economic conditions of the State of Texas and the specific local markets in which we operate. Unlike larger national or other regional banks that are more geographically diversified, we provide banking and financial services to customers across Texas through financial centers in the Austin, Corpus Christi, Dallas, Fort Worth, Houston, Permian Basin, Rio Grande Valley and San Antonio regions. The local economic conditions in these areas have a significant impact on the demand for our products and services as well as the ability of our customers to repay loans, the value of the collateral securing loans and the stability of our deposit funding sources. Moreover, approximately 98.1% of the securities in our municipal bond portfolio were issued by political subdivisions or agencies within the State of Texas. A significant decline in general economic conditions in Texas, whether caused by recession, inflation, unemployment, changes in oil prices, changes in securities markets, acts of terrorism, outbreak of hostilities or other international or domestic occurrences or other factors could impact these local economic conditions and, in turn, have a material adverse effect on our business, financial condition and results of operations.

We May Be Adversely Affected By Volatility in Crude Oil Prices

As of December 31, 2016, energy loans comprised approximately 11.6% of our loan portfolio. Furthermore, energy production and related industries represent a large part of the economies in some of our primary markets. In recent years, actions by certain members of the Organization of Petroleum Exporting Countries ("OPEC") impacting crude oil production levels have led to increased global oil supplies which has resulted in significant declines in market oil prices. Decreased market oil prices compressed margins for many U.S. and Texas-based oil producers, particularly those that utilize higher-cost production technologies such as hydraulic fracking and horizontal drilling, as well as oilfield service providers, energy equipment manufacturers and transportation suppliers, among others. The price per barrel of crude oil was approximately \$54 at December 31, 2016 up from a low of approximately \$26 in February 2016 and from \$37 at December 31, 2015. We have experienced increased losses within our energy portfolio in recent years as a result of oil price volatility, relative to our historical experience. Though oil prices have recovered from recent low-levels, future oil price volatility could have a negative impact on the U.S. economy and, in particular, the economies of energy-dominant states such as Texas and, accordingly, could have a material adverse effect on our business, financial condition and results of operations.

We May Be Adversely Affected By The Soundness Of Other Financial Institutions

Financial services institutions are interrelated as a result of trading, clearing, counterparty, or other relationships. We have exposure to many different industries and counterparties, and routinely execute transactions with counterparties in the financial services industry, including commercial banks, brokers and dealers, investment banks, and other institutional clients. Many of these transactions expose us to credit risk in the event of a default by a counterparty or client. In addition, our credit risk may be exacerbated when the collateral held by us cannot be realized upon or is liquidated at prices not sufficient to recover the full amount of the credit or derivative exposure due to us. Any such losses could have a material adverse effect on our business, financial condition and results of operations.

We Operate In A Highly Competitive Industry and Market Area

We face substantial competition in all areas of our operations from a variety of different competitors, many of which are larger and may have more financial resources. Such competitors primarily include national, regional, and community banks within the various markets where we operate. We also face competition from many other types of financial institutions, including, without limitation, savings and loans, credit unions, finance companies, brokerage firms, insurance companies and other financial intermediaries. The financial services industry could become even more competitive as a result of legislative, regulatory and technological changes and continued consolidation. Also,

technology and other changes have lowered barriers to entry and made it possible for non-banks to offer products and services traditionally provided by banks. For example, consumers can maintain funds that would have historically been

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held as bank deposits in brokerage accounts or mutual funds. Consumers can also complete transactions such as paying bills and/or transferring funds directly without the assistance of banks. The process of eliminating banks as intermediaries, known as "disintermediation," could result in the loss of fee income, as well as the loss of customer deposits and the related income generated from those deposits. Further, many of our competitors have fewer regulatory constraints and may have lower cost structures. Additionally, due to their size, many competitors may be able to achieve economies of scale and, as a result, may offer a broader range of products and services as well as better pricing for those products and services than we can.

Our ability to compete successfully depends on a number of factors, including, among other things:

The ability to develop, maintain and build long-term customer relationships based on top quality service, high ethical standards and safe, sound assets.

The ability to expand our market position.

The scope, relevance and pricing of products and services offered to meet customer needs and demands.

The rate at which we introduce new products and services relative to our competitors.

Customer satisfaction with our level of

service.

Industry and general economic trends.

Failure to perform in any of these areas could significantly weaken our competitive position, which could adversely affect our growth and profitability, which, in turn, could have a material adverse effect on our business, financial condition and results of operations.

We Are Subject To Extensive Government Regulation and Supervision and Possible Enforcement and Other Legal

We, primarily through Cullen/Frost, Frost Bank and certain non-bank subsidiaries, are subject to extensive federal and state regulation and supervision, which vests a significant amount of discretion in the various regulatory authorities. Banking regulations are primarily intended to protect depositors' funds, federal deposit insurance funds and the banking system as a whole, not security holders. These regulations and supervisory guidance affect our lending practices, capital structure, investment practices, dividend policy and growth, among other things. Congress and federal regulatory agencies continually review banking laws, regulations and policies for possible changes. The Dodd-Frank Act, enacted in July 2010, instituted major changes to the banking and financial institutions regulatory regimes. Other changes to statutes, regulations or regulatory policies or supervisory guidance, including changes in interpretation or implementation of statutes, regulations, policies or supervisory guidance, could affect us in substantial and unpredictable ways. Such changes could subject us to additional costs, limit the types of financial services and products we may offer and/or increase the ability of non-banks to offer competing financial services and products, among other things. Failure to comply with laws, regulations, policies or supervisory guidance could result in enforcement and other legal actions by Federal or state authorities, including criminal and civil penalties, the loss of FDIC insurance, the revocation of a banking charter, other sanctions by regulatory agencies, civil money penalties and/or reputational damage. In this regard, government authorities, including the bank regulatory agencies, are pursuing aggressive enforcement actions with respect to compliance and other legal matters involving financial activities, which heightens the risks associated with actual and perceived compliance failures. Any of the foregoing could have a material adverse effect on our business, financial condition and results of operations. See the sections captioned "Supervision and Regulation" included in Item 1. Business and Note 10 - Capital and Regulatory Matters in the notes to consolidated financial statements included in Item 8. Financial Statements and

Supplementary Data, which are located elsewhere in this report.

Our Accounting Estimates and Risk Management Processes Rely On Analytical and Forecasting Models The processes we use to estimate our inherent loan losses and to measure the fair value of financial instruments, as well as the processes used to estimate the effects of changing interest rates and other market measures on our financial condition and results of operations, depends upon the use of analytical and forecasting models. These models reflect assumptions that may not be accurate, particularly in times of market stress or other unforeseen circumstances. Even if these assumptions are adequate, the models may prove to be inadequate or inaccurate because of other flaws in their design or their implementation. If the models we use for interest rate risk and asset-liability management are

inadequate, we may incur increased or unexpected losses upon changes in market interest rates or other market measures. If the models we use for determining our probable loan losses are inadequate, the allowance for loan losses may not be

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sufficient to support future charge-offs. If the models we use to measure the fair value of financial instruments are inadequate, the fair value of such financial instruments may fluctuate unexpectedly or may not accurately reflect what we could realize upon sale or settlement of such financial instruments. Any such failure in our analytical or forecasting models could have a material adverse effect on our business, financial condition and results of operations. The Repeal Of Federal Prohibitions On Payment Of Interest On Demand Deposits Could Increase Our Interest Expense

All federal prohibitions on the ability of financial institutions to pay interest on demand deposit accounts were repealed as part of the Dodd-Frank Act beginning on July 21, 2011. As a result, some financial institutions have commenced offering interest on demand deposits to compete for customers. We do not yet know what interest rates other institutions may offer as market interest rates increase. Our interest expense will increase and our net interest margin will decrease if we begin offering interest on demand deposits to attract additional customers or maintain current customers, which could have a material adverse effect on our business, financial condition and results of operations.

We May Need To Raise Additional Capital In The Future, and Such Capital May Not Be Available When Needed Or At All

We may need to raise additional capital in the future to provide us with sufficient capital resources and liquidity to meet our commitments and business needs, particularly if our asset quality or earnings were to deteriorate significantly. Our ability to raise additional capital, if needed, will depend on, among other things, conditions in the capital markets at that time, which are outside of our control, and our financial condition. Economic conditions and the loss of confidence in financial institutions may increase our cost of funding and limit access to certain customary sources of capital, including inter-bank borrowings, repurchase agreements and borrowings from the discount window of the Federal Reserve.

We cannot assure that such capital will be available on acceptable terms or at all. Any occurrence that may limit our access to the capital markets, such as a decline in the confidence of debt purchasers, depositors of Frost Bank or counterparties participating in the capital markets, or a downgrade of Cullen/Frost's or Frost Bank's debt ratings, may adversely affect our capital costs and our ability to raise capital and, in turn, our liquidity. Moreover, if we need to raise capital in the future, we may have to do so when many other financial institutions are also seeking to raise capital and would have to compete with those institutions for investors. An inability to raise additional capital on acceptable terms when needed could have a materially adverse effect on our business, financial condition and results of operations.

The Value Of Our Goodwill and Other Intangible Assets May Decline In The Future

As of December 31, 2016, we had \$661.7 million of goodwill and other intangible assets. A significant decline in our expected future cash flows, a significant adverse change in the business climate, slower growth rates or a significant and sustained decline in the price of Cullen/Frost's common stock may necessitate taking charges in the future related to the impairment of our goodwill and other intangible assets. If we were to conclude that a future write-down of goodwill and other intangible assets is necessary, we would record the appropriate charge, which could have a material adverse effect on our business, financial condition and results of operations.

Our Controls and Procedures May Fail or Be Circumvented

Our internal controls, disclosure controls and procedures, and corporate governance policies and procedures are based in part on certain assumptions and can provide only reasonable, not absolute, assurances that the objectives of the system are met. Any failure or circumvention of our controls and procedures or failure to comply with regulations related to controls and procedures could have a material adverse effect on our business, financial condition and results of operations.

New Lines Of Business Or New Products and Services May Subject Us To Additional Risks

From time to time, we may implement new lines of business or offer new products and services within existing lines of business. There are substantial risks and uncertainties associated with these efforts, particularly in instances where the markets are not fully developed. In developing and marketing new lines of business and/or new products and services we may invest significant time and resources. Initial timetables for the introduction and development of new lines of business and/or new products or services may not be achieved and price and profitability targets may not

prove feasible. External factors, such as compliance with regulations, competitive alternatives, and shifting market preferences, may also impact the successful implementation of a new line of business or a new product or service. Furthermore, any new line of business and/or new product or service could have a significant impact on the effectiveness of our system of

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internal controls. Failure to successfully manage these risks in the development and implementation of new lines of business or new products or services could have a material adverse effect on our business, financial condition and results of operations.

Cullen/Frost Relies On Dividends From Its Subsidiaries For Most Of Its Revenue

Cullen/Frost is a separate and distinct legal entity from its subsidiaries. It receives substantially all of its revenue from dividends from its subsidiaries. These dividends are the principal source of funds to pay dividends on Cullen/Frost's common stock and interest and principal on Cullen/Frost's debt. Various federal and state laws and regulations limit the amount of dividends that Frost Bank and certain non-bank subsidiaries may pay to Cullen/Frost. Also, Cullen/Frost's right to participate in a distribution of assets upon a subsidiary's liquidation or reorganization is subject to the prior claims of the subsidiary's creditors. In the event Frost Bank is unable to pay dividends to Cullen/Frost, Cullen/Frost may not be able to service debt, pay obligations or pay dividends on our common stock. The inability to receive dividends from Frost Bank could have a material adverse effect on our business, financial condition and results of operations.

See the section captioned "Supervision and Regulation" in Item 1. Business and Note 10 - Capital and Regulatory Matters in the notes to consolidated financial statements included in Item 8. Financial Statements and Supplementary Data, which are located elsewhere in this report.

Potential Acquisitions May Disrupt Our Business and Dilute Stockholder Value

We generally seek merger or acquisition partners that are culturally similar and have experienced management and possess either significant market presence or have potential for improved profitability through financial management, economies of scale or expanded services. Acquiring other banks, businesses, or branches involves various risks commonly associated with acquisitions, including, among other things:

Potential exposure to unknown or contingent liabilities of the target company.

Exposure to potential asset quality issues of the target company.

Potential disruption to our business.

Potential diversion of our management's time and attention.

The possible loss of key employees and customers of the target company.

Difficulty in estimating the value of the target company.

Potential changes in banking or tax laws or regulations that may affect the target company.

Acquisitions typically involve the payment of a premium over book and market values, and, therefore, some dilution of our tangible book value and net income per common share may occur in connection with any future transaction. Furthermore, failure to realize the expected revenue increases, cost savings, increases in geographic or product presence, and/or other projected benefits from an acquisition could have a material adverse effect on our business, financial condition and results of operations.

We Are Subject To Liquidity Risk

We require liquidity to meet our deposit and debt obligations as they come due. Our access to funding sources in amounts adequate to finance our activities or on terms that are acceptable to us could be impaired by factors that affect us specifically or the financial services industry or economy generally. Factors that could reduce our access to liquidity sources include a downturn in the Texas economy, difficult credit markets or adverse regulatory actions against us. Our access to deposits may also be affected by the liquidity needs of our depositors. In particular, a substantial majority of our liabilities are demand, savings, interest checking and money market deposits, which are payable on demand or upon several days' notice, while by comparison, a substantial portion of our assets are loans, which cannot be called or sold in the same time frame. We may not be able to replace maturing deposits and advances as necessary in the future, especially if a large number of our depositors sought to withdraw their accounts, regardless of the reason. A failure to maintain adequate liquidity could have a material adverse effect on our business, financial condition and results of operations.

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We May Not Be Able To Attract and Retain Skilled People

Our success depends, in large part, on our ability to attract and retain key people. Competition for the best people in most activities engaged in by us can be intense and we may not be able to hire people or to retain them. We do not currently have employment agreements or non-competition agreements with any of our senior officers. The unexpected loss of services of key personnel could have a material adverse impact on our business, financial condition and results of operations because of their skills, knowledge of our market, years of industry experience and the difficulty of promptly finding qualified replacement personnel. In addition, the scope and content of U.S. banking regulators' policies on incentive compensation, as well as changes to these policies, could adversely affect our ability to hire, retain and motivate our key employees.

Our Information Systems May Experience Failure, Interruption Or Breach In Security

In the ordinary course of business, we rely on electronic communications and information systems to conduct our operations and to store sensitive data. Any failure, interruption or breach in security of these systems could result in significant disruption to our operations. Information security breaches and cybersecurity-related incidents may include, but are not limited to, attempts to access information, including customer and company information, malicious code, computer viruses and denial of service attacks that could result in unauthorized access, misuse, loss or destruction of data (including confidential customer information), account takeovers, unavailability of service or other events. These types of threats may derive from human error, fraud or malice on the part of external or internal parties, or may result from accidental technological failure. Further, to access our products and services our customers may use computers and mobile devices that are beyond our security control systems. Our technologies, systems, networks and software, and those of other financial institutions have been, and are likely to continue to be, the target of cybersecurity threats and attacks, which may range from uncoordinated individual attempts to sophisticated and targeted measures directed at us. The risk of a security breach or disruption, particularly through cyber attack or cyber intrusion, has increased as the number, intensity and sophistication of attempted attacks and intrusions from around the world have increased.

Our business requires the collection and retention of large volumes of customer data, including personally identifiable information in various information systems that we maintain and in those maintained by third parties with whom we contract to provide data services. We also maintain important internal company data such as personally identifiable information about our employees and information relating to our operations. The integrity and protection of that customer and company data is important to us. Our collection of such customer and company data is subject to extensive regulation and oversight.

Our customers and employees have been, and will continue to be, targeted by parties using fraudulent e-mails and other communications in attempts to misappropriate passwords, bank account information or other personal information or to introduce viruses or other malware through "Trojan horse" programs to our information systems and/or our customers' computers. Though we endeavor to mitigate these threats through product improvements, use of encryption and authentication technology and customer and employee education, such cyber attacks against us or our merchants and our third party service providers remain a serious issue. The pervasiveness of cybersecurity incidents in general and the risks of cyber crime are complex and continue to evolve. More generally, publicized information concerning security and cyber-related problems could inhibit the use or growth of electronic or web-based applications or solutions as a means of conducting commercial transactions.

Although we make significant efforts to maintain the security and integrity of our information systems and have implemented various measures to manage the risk of a security breach or disruption, there can be no assurance that our security efforts and measures will be effective or that attempted security breaches or disruptions would not be successful or damaging. Even the most well protected information, networks, systems and facilities remain potentially vulnerable because attempted security breaches, particularly cyber attacks and intrusions, or disruptions will occur in the future, and because the techniques used in such attempts are constantly evolving and generally are not recognized until launched against a target, and in some cases are designed not to be detected and, in fact, may not be detected. Accordingly, we may be unable to anticipate these techniques or to implement adequate security barriers or other preventative measures, and thus it is virtually impossible for us to entirely mitigate this risk. While we maintain specific "cyber" insurance coverage, which would apply in the event of various breach scenarios, the amount of

coverage may not be adequate in any particular case. Furthermore, because cyber threat scenarios are inherently difficult to predict and can take many forms, some breaches may not be covered under our cyber insurance coverage. A security breach or other significant disruption of our information systems or those related to our customers, merchants and our third party vendors, including as a result of cyber attacks, could (i) disrupt the proper functioning of our networks and systems and therefore our

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operations and/or those of certain of our customers; (ii) result in the unauthorized access to, and destruction, loss, theft, misappropriation or release of confidential, sensitive or otherwise valuable information of ours or our customers; (iii) result in a violation of applicable privacy, data breach and other laws, subjecting us to additional regulatory scrutiny and expose the us to civil litigation, governmental fines and possible financial liability; (iv) require significant management attention and resources to remedy the damages that result; or (v) harm our reputation or cause a decrease in the number of customers that choose to do business with us. The occurrence of any of the foregoing could have a material adverse effect on our business, financial condition and results of operations.

We Continually Encounter Technological Change

The financial services industry is continually undergoing rapid technological change with frequent introductions of new technology-driven products and services. The effective use of technology increases efficiency and enables financial institutions to better serve customers and to reduce costs. Our future success depends, in part, upon our ability to address the needs of our customers by using technology to provide products and services that will satisfy customer demands, as well as to create additional efficiencies in our operations. Many of our competitors have substantially greater resources to invest in technological improvements. We may not be able to effectively implement new technology-driven products and services or be successful in marketing these products and services to our customers. Failure to successfully keep pace with technological change affecting the financial services industry could have a material adverse effect on our business, financial condition and results of operations.

We Are Subject To Claims and Litigation Pertaining To Fiduciary Responsibility

From time to time, customers make claims and take legal action pertaining to our performance of our fiduciary responsibilities. Whether customer claims and legal action related to our performance of our fiduciary responsibilities are founded or unfounded, if such claims and legal actions are not resolved in a manner favorable to us they may result in significant financial liability and/or adversely affect the market perception of us and our products and services as well as impact customer demand for those products and services. Any financial liability or reputational damage could have a material adverse effect on our business, financial condition and results of operations.

Our Operations Rely On Certain External Vendors

We rely on certain external vendors to provide products and services necessary to maintain our day-to-day operations. Accordingly, our operations are exposed to risk that these vendors will not perform in accordance with the contracted arrangements under service level agreements. The failure of an external vendor to perform in accordance with the contracted arrangements under service level agreements, because of changes in the vendor's organizational structure, financial condition, support for existing products and services or strategic focus or for any other reason, could be disruptive to our operations, which could have a material adverse effect on our business and, in turn, our financial condition and results of operations.

We Are Subject to Claims and Litigation Pertaining to Intellectual Property

Banking and other financial services companies, including us, rely on technology companies to provide information technology products and services necessary to support day-to-day operations. Technology companies frequently enter into litigation based on allegations of patent infringement or other violations of intellectual property rights. In addition, patent holding companies seek to monetize patents they have purchased or otherwise obtained. Competitors of our vendors, or other individuals or companies, have from time to time claimed to hold intellectual property sold to us by our vendors. Such claims may increase in the future as the financial services sector becomes more reliant on information technology vendors. The plaintiffs in these actions frequently seek injunctions and substantial damages. Regardless of the scope or validity of such patents or other intellectual property rights, or the merits of any claims by potential or actual litigants, we may have to engage in protracted litigation. Such litigation is often expensive, time-consuming, disruptive to our operations and distracting to management. If we are found to infringe upon one or more patents or other intellectual property rights, we may be required to pay substantial damages or royalties to a third-party. In certain cases, we may consider entering into licensing agreements for disputed intellectual property, although no assurance can be given that such licenses can be obtained on acceptable terms or that litigation will not occur. These licenses may also significantly increase our operating expenses. If legal matters related to intellectual property claims were resolved against us or settled, we could be required to make payments in amounts that could have a material adverse effect on our business, financial condition and results of operations.

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We Are Subject To Environmental Liability Risk Associated With Lending Activities

A significant portion of our loan portfolio is secured by real property. During the ordinary course of business, we may foreclose on and take title to properties securing certain loans. In doing so, there is a risk that hazardous or toxic substances could be found on these properties. If hazardous or toxic substances are found, we may be liable for remediation costs, as well as for personal injury and property damage. Environmental laws may require us to incur substantial expenses and may materially reduce the affected property's value or limit our ability to use or sell the affected property. In addition, future laws or more stringent interpretations or enforcement policies with respect to existing laws may increase our exposure to environmental liability. Environmental reviews of real property before initiating foreclosure actions may not be sufficient to detect all potential environmental hazards. The remediation costs and any other financial liabilities associated with an environmental hazard could have a material adverse effect on our business, financial condition and results of operations.

Severe Weather, Natural Disasters, Acts Of War Or Terrorism and Other External Events Could Significantly Impact Our Business

Severe weather, natural disasters, acts of war or terrorism and other adverse external events could have a significant impact on our ability to conduct business. In addition, such events could affect the stability of our deposit base, impair the ability of borrowers to repay outstanding loans, impair the value of collateral securing loans, cause significant property damage, result in loss of revenue and/or cause us to incur additional expenses. The occurrence of any such event in the future could have a material adverse effect on our business, which, in turn, could have a material adverse effect on our business, financial condition and results of operations.

Financial Services Companies Depend On The Accuracy and Completeness Of Information About Customers and Counterparties

In deciding whether to extend credit or enter into other transactions, we may rely on information furnished by or on behalf of customers and counterparties, including financial statements, credit reports and other financial information. We may also rely on representations of those customers, counterparties or other third parties, such as independent auditors, as to the accuracy and completeness of that information. Reliance on inaccurate or misleading financial statements, credit reports or other financial information could have a material adverse impact on our business, financial condition and results of operations.

Risks Associated With Our Common Stock

Our Stock Price Can Be Volatile

Stock price volatility may make it more difficult for you to resell your common stock when you want and at prices you find attractive. Our stock price can fluctuate significantly in response to a variety of factors including, among other things:

Actual or anticipated variations in quarterly results of operations.

Recommendations by securities analysts.

Operating and stock price performance of other companies that investors deem comparable to us.

News reports relating to trends, concerns and other issues in the financial services industry.

Perceptions in the marketplace regarding us and/or our competitors.

New technology used, or services offered, by competitors.

Significant acquisitions or business combinations, strategic partnerships, joint ventures or capital commitments by or involving us or our competitors.

Failure to integrate acquisitions or realize anticipated benefits from acquisitions.

Changes in government regulations.

Geopolitical conditions such as acts or threats of terrorism or military conflicts.

General market fluctuations, including real or anticipated changes in the strength of the Texas economy; industry factors and general economic and political conditions and events, such as economic slowdowns or recessions; interest rate changes, oil price volatility or credit loss trends could also cause our stock price to decrease regardless of operating results.

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The Trading Volume In Our Common Stock Is Less Than That Of Other Larger Financial Services Companies Although our common stock is listed for trading on the New York Stock Exchange (NYSE), the trading volume in our common stock is less than that of other, larger financial services companies. A public trading market having the desired characteristics of depth, liquidity and orderliness depends on the presence in the marketplace of willing buyers and sellers of our common stock at any given time. This presence depends on the individual decisions of investors and general economic and market conditions over which we have no control. Given the lower trading volume of our common stock, significant sales of our common stock, or the expectation of these sales, could cause our stock price to fall.

Cullen/Frost May Not Continue To Pay Dividends On Its Common Stock In The Future

Holders of Cullen/Frost common stock are only entitled to receive such dividends as its board of directors may declare out of funds legally available for such payments. Although Cullen/Frost has historically declared cash dividends on its common stock, it is not required to do so and may reduce or eliminate its common stock dividend in the future. This could adversely affect the market price of Cullen/Frost's common stock. Also, Cullen/Frost is a bank holding company, and its ability to declare and pay dividends is dependent on certain federal regulatory considerations, including the guidelines of the Federal Reserve Board regarding capital adequacy and dividends.

As more fully discussed in Note 10 - Capital and Regulatory Matters in the notes to consolidated financial statements included in Item 8. Financial Statements and Supplementary Data, which are located elsewhere in this report, our ability to declare or pay dividends on our common stock may also be subject to certain restrictions in the event that we elect to defer the payment of interest on our junior subordinated deferrable interest debentures or do not declare and pay dividends on our Series A Preferred Stock.

An Investment In Our Common Stock Is Not An Insured Deposit

Our common stock is not a bank deposit and, therefore, is not insured against loss by the Federal Deposit Insurance Corporation (FDIC), any other deposit insurance fund or by any other public or private entity. Investment in our common stock is inherently risky for the reasons described in this "Risk Factors" section and elsewhere in this report and is subject to the same market forces that affect the price of common stock in any company. As a result, if you acquire our common stock, you could lose some or all of your investment.

Certain Banking Laws May Have An Anti-Takeover Effect

Provisions of federal banking laws, including regulatory approval requirements, could make it more difficult for a third party to acquire us, even if doing so would be perceived to be beneficial to our shareholders. These provisions effectively inhibit a non-negotiated merger or other business combination, which, in turn, could adversely affect the market price of our common stock.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None

ITEM 2. PROPERTIES

Our headquarters is located in downtown San Antonio, Texas. These facilities, which we lease, house our executive and primary administrative offices, as well as the principal banking headquarters of Frost Bank. We also own or lease other facilities within our primary market areas in the regions of Austin, Corpus Christi, Dallas, Fort Worth, Houston, Permian Basin, Rio Grande Valley and San Antonio. We consider our properties to be suitable and adequate for our present needs.

ITEM 3. LEGAL PROCEEDINGS

We are subject to various claims and legal actions that have arisen in the course of conducting business. Management does not expect the ultimate disposition of these matters to have a material adverse effect on our business, financial condition and results of operations.

ITEM 4. MINE SAFETY DISCLOSURES

None

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PART II

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Common Stock Market Prices and Dividends

Our common stock is traded on the New York Stock Exchange, Inc. ("NYSE") under the symbol "CFR". The tables below set forth for each quarter of 2016 and 2015 the high and low intra-day sales prices per share of Cullen/Frost's common stock and the cash dividends declared per share.

	2016		2015	
Sales Price Per Share	High	Low	High	Low
First quarter	\$59.59	\$42.41	\$71.33	\$60.87
Second quarter	67.72	51.43	80.23	67.50
Third quarter	73.80	59.00	79.50	59.35
Fourth quarter	88.98	69.86	73.99	59.27
Cash Dividends Per S	hare 20	16 201:	5	
First quarter	\$0	.53 \$0.5	51	
Second quarter	0.5	64 0.53	}	
Third quarter	0.5	64 0.53	}	
Fourth quarter	0.5	64 0.53	}	
Total	\$2	.15 \$2.1	10	

As of December 31, 2016, there were 63,474,221 shares of our common stock outstanding held by 1,251 holders of record. The closing price per share of common stock on December 31, 2016, the last trading day of our fiscal year, was \$88.23.

Our management is currently committed to continuing to pay regular cash dividends; however, there can be no assurance as to future dividends because they are dependent on our future earnings, capital requirements and financial condition. See the section captioned "Supervision and Regulation" included in Item 1. Business, the section captioned "Capital and Liquidity" included in Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations and Note 10 - Capital and Regulatory Matters in the notes to consolidated financial statements included in Item 8. Financial Statements and Supplementary Data, all of which are included elsewhere in this report. Stock-Based Compensation Plans

Information regarding stock-based compensation awards outstanding and available for future grants as of December 31, 2016, segregated between stock-based compensation plans approved by shareholders and stock-based compensation plans not approved by shareholders, is presented in the table below. Additional information regarding stock-based compensation plans is presented in Note 12 - Employee Benefit Plans in the notes to consolidated financial statements included in Item 8. Financial Statements and Supplementary Data located elsewhere in this report.

Plan Category	Number of Shares to be Issued Upon Exercise of Outstanding Awards	Weighted-Average Exercise Price of Outstanding Awards	Number of Shares Available for Future Grants
Plans approved by shareholders	4,089,028	\$ 62.67	1,452,452
Plans not approved by shareholders			_
Total	4,089,028	62.67	1,452,452

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Stock Repurchase Plans

From time to time, our board of directors has authorized stock repurchase plans. In general, stock repurchase plans allow us to proactively manage our capital position and return excess capital to shareholders. Shares purchased under such plans also provide us with shares of common stock necessary to satisfy obligations related to stock compensation awards. On October 27, 2016, our board of directors authorized a \$100.0 million stock repurchase program, allowing us to repurchase shares of our common stock over a two-year period from time to time at various prices in the open market or through private transactions. No shares were repurchased under this plan during 2016. During 2015, under a prior plan, we repurchased 1,485,493 shares at a total cost of \$100.0 million, while no shares were repurchased under a stock repurchase plan during 2014.

The following table provides information with respect to purchases made by or on behalf of us or any "affiliated purchaser" (as defined in Rule 10b-18(a)(3) under the Securities Exchange Act of 1934), of our common stock during the fourth quarter of 2016.

				Number (or
				Approximate
			Total Number of	Dollar Value) of
Total Number of		Average Price	Shares Purchased	Shares
Shares Purchased	[Paid Per Share	as Part of Publicly	That May Yet Be
			Announced Plans	Purchased Under
				the Plans at
				the
				End of the Period
17,233	(1)	\$ 74.88	_	\$ 100,000
		_	_	100,000
		_	_	100,000
17,233		\$ 74.88	_	
	Shares Purchased 17,233 —	Shares Purchased 17,233 (1) ———————————————————————————————————	Shares Purchased Paid Per Share 17,233 (1) \$ 74.88 — — —	Total Number of Shares Purchased Paid Per Share as Part of Publicly Announced Plans 17,233 (1) \$ 74.88 — — — — — — — — — — — — — — — — — —

⁽¹⁾ All of these repurchases were made in connection with the vesting of certain share awards.

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Performance Graph

The performance graph below compares the cumulative total shareholder return on Cullen/Frost Common Stock with the cumulative total return on the equity securities of companies included in the Standard & Poor's 500 Stock Index and the Standard and Poor's 500 Bank Index, measured at the last trading day of each year shown. The graph assumes an investment of \$100 on December 31, 2011 and reinvestment of dividends on the date of payment without commissions. The performance graph represents past performance and should not be considered to be an indication of future performance.

	2011	2012	2013	2014	2015	2016
Cullen/Frost	\$100.00	\$106.10	\$149.87	\$146.07	\$127.90	\$194.41
S&P 500	100.00	116.00	153.57	174.60	177.01	198.18
S&P 500 Banks	100.00	124.23	168.61	194.76	196.42	244.17

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ITEM 6. SELECTED FINANCIAL DATA

The following consolidated selected financial data is derived from our audited financial statements as of and for the five years ended December 31, 2016. The following consolidated financial data should be read in conjunction with Management's Discussion and Analysis of Financial Condition and Results of Operations and the Consolidated Financial Statements and related notes included elsewhere in this report. The operating results of companies acquired during the periods presented are included with our results of operations since their respective dates of acquisition. Dollar amounts, except per share data, and common shares outstanding are in thousands.

Year Ended December 31

		ed Decemb	-		
	2016	2015	2014	2013	2012
Consolidated Statements of Income					
Interest income:					
Loans, including fees	\$458,094	\$433,872	\$440,958	\$415,230	\$401,364
Securities	313,943	307,394	249,705	219,904	225,844
Interest-bearing deposits	16,103	8,123	10,725	7,284	4,300
Federal funds sold and resell agreements	272	107	83	82	104
Total interest income	788,412	749,496	701,471	642,500	631,612
Interest expense:					
Deposits	7,248	9,024	11,022	14,459	18,099
Federal funds purchased and repurchase agreements	204	167	134	121	140
Junior subordinated deferrable interest debentures	3,281	2,725	2,488	6,426	6,806
Subordinated notes payable and other borrowings	1,343	948	893	939	1,706
Total interest expense	12,076	12,864	14,537	21,945	26,751
Net interest income	776,336	736,632	686,934	620,555	604,861
Provision for loan losses	51,673	51,845	16,314	20,582	10,080
Net interest income after provision for loan losses	724,663	684,787	670,620	599,973	594,781
Non-interest income:					
Trust and investment management fees	104,240	105,512	106,237	91,375	83,317
Service charges on deposit accounts	81,203	81,350	81,946	81,432	83,392
Insurance commissions and fees	47,154	48,926	45,115	43,140	39,948
Interchange and debit card transaction fees	21,369	19,666	18,372	16,979	16,933
Other charges, commissions and fees	39,623	37,551	36,180	34,185	30,180
Net gain (loss) on securities transactions	14,975	69	38	1,176	4,314
Other	41,144	35,656	32,256	34,531	30,703
Total non-interest income	349,708	328,730	320,144	302,818	288,787
Non-interest expense:					
Salaries and wages	318,665	310,504	292,349	273,692	258,752
Employee benefits	72,615	69,746	60,151	62,407	57,635
Net occupancy	71,627	65,690	55,745	50,468	48,975
Furniture and equipment	71,208	64,373	62,087	58,443	55,279
Deposit insurance	17,428	14,519	13,232	11,682	11,087
Intangible amortization	2,429	3,325	3,520	3,141	3,896
Other	178,988	165,561	167,656	152,077	139,469
Total non-interest expense	732,960	693,718	654,740	611,910	575,093
Income before income taxes	341,411	319,799	336,024	290,881	308,475
Income taxes	37,150	40,471	58,047	53,015	70,523
Net income	304,261	279,328	277,977	237,866	237,952
Preferred stock dividends	8,063	8,063	8,063	6,719	_
Net income available to common shareholders	\$296,198	\$271,265	\$269,914	\$231,147	\$237,952

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	As of or for	the	Year Ended	De	cember 31					
	2016	tiic	2015	DC	2014		2013		2012	
Per Common Share Data	2010		2013		2011		2013		2012	
Net income - basic	\$4.73		\$4.31		\$4.32		\$3.82		\$3.87	
Net income - diluted	4.70		4.28		4.29		3.80		3.86	
Cash dividends declared and paid	2.15		2.10		2.03		1.98		1.90	
Book value	45.03		44.30		42.87		39.13		39.32	
Common Shares Outstanding	43.03		44.50		72.07		37.13		37.32	
Period-end	63,474		61,982		63,149		60,566		61,479	
Weighted-average shares - basic	62,376		62,758		62,072		60,350		61,298	
Dilutive effect of stock compensation	593		715		902		766		345	
Weighted - average shares - diluted	62,969		63,473		62,974		61,116		61,643	
Performance Ratios	02,909		03,473		02,974		01,110		01,043	
	1.03	0%	0.97	0%	1.05	0%	1.02	7/_	1.14	%
Return on average assets	1.03	70	9.86	70	1.05	70	9.93	70	10.03	70
Return on average common equity	10.10		9.80		10.51		9.93		10.03	
Net interest income to average earning	3.56		3.45		3.41		3.41		3.59	
assets	45.54		40.72		47.10		51.75		40.11	
Dividend pay-out ratio	45.54		48.72		47.12		51.75		49.11	
Balance Sheet Data										
Period-end:	411.055.20	_	411 406 50		410.007.50	_	40.515.500		фо 222 од	0
Loans	\$11,975,392	2	\$11,486,53	l	\$10,987,535)	\$9,515,700		\$9,223,84	
Earning assets	28,025,439		26,431,176		26,052,339		22,238,286		21,148,475	
Total assets	30,196,319		28,565,942		28,276,421		24,311,408		23,122,360	
Non-interest-bearing demand deposits	10,513,369		10,270,233		10,149,061		8,311,149		8,096,937	
Interest-bearing deposits	15,298,206		14,073,362		13,986,869				11,400,429	
Total deposits	25,811,575		24,343,595		24,135,930		20,688,786		19,497,366	
Long-term debt and other borrowings	236,117		235,939		235,761		222,181		222,010	
Shareholders' equity	3,002,528		2,890,343		2,851,403		2,514,161		2,417,482	
Average:										
Loans	\$11,554,823	3	\$11,267,402	2	\$10,299,025	5	\$9,229,574		\$8,456,81	8
Earning assets	26,717,013		25,954,510		23,877,476		20,991,221		19,015,707	
Total assets	28,832,093		28,060,626		25,766,301		22,750,422		20,825,093	
Non-interest-bearing demand deposits	10,034,319		10,179,810		9,125,030		7,657,774		7,021,927	
Interest-bearing deposits	14,477,525		13,860,948		12,927,729		11,610,320		10,270,173	3
Total deposits	24,511,844		24,040,758		22,052,759		19,268,094		17,292,100	0
Long-term debt and other borrowings	236,033		235,856		230,170		222,098		221,936	
Shareholders' equity	3,058,896		2,895,192		2,712,226		2,455,041		2,372,745	
Asset Quality										
Allowance for loan losses	\$153,045		\$135,859		\$99,542		\$92,438		\$104,453	
Allowance for losses to year-end loans	1.28	%	1.18	%	0.91	%	•	%	1.13	%
Net loan charge-offs	\$34,487		\$15,528		\$9,210		\$32,597		\$15,774	
Net loan charge-offs to average loans	0.30	%	0.14	%	0.09	%		%	0.19	%
Non-performing assets	\$102,591	,-	\$85,722	,-	\$65,176	, -	\$69,773	-	\$105,246	,-
Non-performing assets to:	ψ10 2, 0>1		Ψ συ, , ==		\$ 00,170		Ψ 0,7,7,7,0		Ψ100,2.0	
Total loans plus foreclosed assets	0.86	0/0	0.75	0%	0.59	0%	0.73	7/0	1.14	%
Total assets	0.34	70	0.73	70	0.23	70	0.79	, υ	0.46	70
Consolidated Capital Ratios	0.5 1		0.50		0.23		0.27		0.10	
Common equity tier 1 risk-based ratio	12.52	0%	11.37	0%	N/A		N/A		N/A	
Tier 1 risk-based ratio	13.33	/0	12.38	70	13.68	0%		76	13.68	%
TICL THISK-DUSSED LULIO	13.33		14.50		13.00	10	17.37	10	13.00	10

Total risk-based ratio	14.93	13.85	14.55	15.52	15.11
Leverage ratio	8.14	7.79	8.16	8.49	8.28
Average shareholders' equity to average total assets	10.61	10.32	10.53	10.79	11.39
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The following tables set forth unaudited consolidated selected quarterly statement of operations data for the years ended December 31, 2016 and 2015. Dollar amounts are in thousands, except per share data.

	Year Ended December 31, 2016					
	4th	3rd	2nd	1st		
	Quarter	Quarter	Quarter ⁽¹⁾	Quarter ⁽¹⁾		
Interest income	\$204,868	\$197,489	\$193,451	\$192,604		
Interest expense	3,265	2,982	2,949	2,880		
Net interest income	201,603	194,507	190,502	189,724		
Provision for loan losses	8,939	5,045	9,189	28,500		
Non-interest income ⁽²⁾	93,434	82,114	78,017	96,143		
Non-interest expense	193,851	180,505	179,445	179,159		
Income before income taxes	92,247	91,071	79,885	78,208		
Income taxes	8,528	10,852	8,378	9,392		
Net income	83,719	80,219	71,507	68,816		
Preferred stock dividends	2,016	2,016	2,015	2,016		
Net income available to common shareholders	\$81,703	\$78,203	\$69,492	\$66,800		
Net income per common share:						
Basic	\$1.29	\$1.24	\$1.12	\$1.07		
Diluted	1.28	1.24	1.11	1.07		
	Year Ende	ed Decemb	er 31, 2015	5		
	Year Endo	ed Decemb 3rd	er 31, 2015 2nd	5 1st		
			-			
Interest income	4th Quarter	3rd	2nd Quarter	1st		
Interest income Interest expense	4th Quarter	3rd Quarter	2nd Quarter	1st Quarter		
	4th Quarter \$189,102	3rd Quarter \$190,088	2nd Quarter \$185,932	1st Quarter \$184,374		
Interest expense	4th Quarter \$189,102 2,963	3rd Quarter \$190,088 3,107	2nd Quarter \$185,932 3,123	1st Quarter \$184,374 3,671		
Interest expense Net interest income	4th Quarter \$189,102 2,963 186,139	3rd Quarter \$190,088 3,107 186,981	2nd Quarter \$185,932 3,123 182,809	1st Quarter \$184,374 3,671 180,703		
Interest expense Net interest income Provision for loan losses	4th Quarter \$189,102 2,963 186,139 34,000	3rd Quarter \$190,088 3,107 186,981 6,810	2nd Quarter \$185,932 3,123 182,809 2,873	1st Quarter \$184,374 3,671 180,703 8,162		
Interest expense Net interest income Provision for loan losses Non-interest income ⁽³⁾	4th Quarter \$189,102 2,963 186,139 34,000 83,155	3rd Quarter \$190,088 3,107 186,981 6,810 83,378	2nd Quarter \$185,932 3,123 182,809 2,873 78,982	1st Quarter \$184,374 3,671 180,703 8,162 83,215		
Interest expense Net interest income Provision for loan losses Non-interest income ⁽³⁾ Non-interest expense	4th Quarter \$189,102 2,963 186,139 34,000 83,155 173,399	3rd Quarter \$190,088 3,107 186,981 6,810 83,378 175,569	2nd Quarter \$185,932 3,123 182,809 2,873 78,982 173,239	1st Quarter \$184,374 3,671 180,703 8,162 83,215 171,511		
Interest expense Net interest income Provision for loan losses Non-interest income ⁽³⁾ Non-interest expense Income before income taxes	4th Quarter \$189,102 2,963 186,139 34,000 83,155 173,399 61,895	3rd Quarter \$190,088 3,107 186,981 6,810 83,378 175,569 87,980	2nd Quarter \$185,932 3,123 182,809 2,873 78,982 173,239 85,679	1st Quarter \$184,374 3,671 180,703 8,162 83,215 171,511 84,245		
Interest expense Net interest income Provision for loan losses Non-interest income ⁽³⁾ Non-interest expense Income before income taxes Income taxes	4th Quarter \$189,102 2,963 186,139 34,000 83,155 173,399 61,895 3,657	3rd Quarter \$190,088 3,107 186,981 6,810 83,378 175,569 87,980 12,130	2nd Quarter \$185,932 3,123 182,809 2,873 78,982 173,239 85,679 12,602	1st Quarter \$184,374 3,671 180,703 8,162 83,215 171,511 84,245 12,082		
Interest expense Net interest income Provision for loan losses Non-interest income ⁽³⁾ Non-interest expense Income before income taxes Income taxes Net income	4th Quarter \$189,102 2,963 186,139 34,000 83,155 173,399 61,895 3,657 58,238 2,016	3rd Quarter \$190,088 3,107 186,981 6,810 83,378 175,569 87,980 12,130 75,850	2nd Quarter \$185,932 3,123 182,809 2,873 78,982 173,239 85,679 12,602 73,077	1st Quarter \$184,374 3,671 180,703 8,162 83,215 171,511 84,245 12,082 72,163		
Interest expense Net interest income Provision for loan losses Non-interest income ⁽³⁾ Non-interest expense Income before income taxes Income taxes Net income Preferred stock dividends	4th Quarter \$189,102 2,963 186,139 34,000 83,155 173,399 61,895 3,657 58,238 2,016	3rd Quarter \$190,088 3,107 186,981 6,810 83,378 175,569 87,980 12,130 75,850 2,016	2nd Quarter \$185,932 3,123 182,809 2,873 78,982 173,239 85,679 12,602 73,077 2,015	1st Quarter \$184,374 3,671 180,703 8,162 83,215 171,511 84,245 12,082 72,163 2,016		
Interest expense Net interest income Provision for loan losses Non-interest income ⁽³⁾ Non-interest expense Income before income taxes Income taxes Net income Preferred stock dividends Net income available to common shareholders	4th Quarter \$189,102 2,963 186,139 34,000 83,155 173,399 61,895 3,657 58,238 2,016	3rd Quarter \$190,088 3,107 186,981 6,810 83,378 175,569 87,980 12,130 75,850 2,016	2nd Quarter \$185,932 3,123 182,809 2,873 78,982 173,239 85,679 12,602 73,077 2,015	1st Quarter \$184,374 3,671 180,703 8,162 83,215 171,511 84,245 12,082 72,163 2,016		

Certain items in prior financial statements have been reclassified to conform to the current presentation in connection with the early adoption of a new accounting standard which requires all income tax effects related to settlements of share-based payment awards be reported in earnings as an increase or decrease to income tax expense.

⁽²⁾ Includes net gains on securities transactions of \$14.9 million and \$109 thousand during the first and fourth quarters of 2016, respectively, and a net loss on securities transactions of \$37 thousand during the third quarter of 2016. Includes a net gain on securities transactions of \$228 thousand during the first quarter of 2015 and net losses on

⁽³⁾ securities transactions of \$107 thousand and \$52 thousand during the fourth and third quarters of 2015, respectively.

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ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Forward-Looking Statements and Factors that Could Affect Future Results

Certain statements contained in this Annual Report on Form 10-K that are not statements of historical fact constitute forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 (the "Act"), notwithstanding that such statements are not specifically identified as such. In addition, certain statements may be contained in our future filings with the SEC, in press releases, and in oral and written statements made by us or with our approval that are not statements of historical fact and constitute forward-looking statements within the meaning of the Act. Examples of forward-looking statements include, but are not limited to: (i) projections of revenues, expenses, income or loss, earnings or loss per share, the payment or nonpayment of dividends, capital structure and other financial items; (ii) statements of plans, objectives and expectations of Cullen/Frost or its management or Board of Directors, including those relating to products or services; (iii) statements of future economic performance; and (iv) statements of assumptions underlying such statements. Words such as "believes", "anticipates", "expects", "intends", "targeted", "continue", "remain", "will", "should", "may" and other similar expressions are intended to identify forward-looking statements but are not the exclusive means of identifying such statements.

Forward-looking statements involve risks and uncertainties that may cause actual results to differ materially from those in such statements. Factors that could cause actual results to differ from those discussed in the forward-looking statements include, but are not limited to:

Local, regional, national and international economic conditions and the impact they may have on us and our customers and our assessment of that impact.

Volatility and disruption in national and international financial and commodity markets.

Government intervention in the U.S. financial system.

Changes in the mix of loan geographies, sectors and types or the level of non-performing assets and charge-offs. Changes in estimates of future reserve requirements based upon the periodic review thereof under relevant regulatory and accounting requirements.

The effects of and changes in trade and monetary and fiscal policies and laws, including the interest rate policies of the Federal Reserve Board.

Inflation, interest rate, securities market and monetary fluctuations.

The effect of changes in laws and regulations (including laws and regulations concerning taxes, banking, securities and insurance) with which we and our subsidiaries must comply.

The soundness of other financial institutions.

Political instability.

Impairment of our goodwill or other intangible assets.

Acts of God or of war or terrorism.

The timely development and acceptance of new products and services and perceived overall value of these products and services by users.

Changes in consumer spending, borrowings and savings habits.

Changes in the financial performance and/or condition of our borrowers.

Technological changes.

Acquisitions and integration of acquired businesses.

The ability to increase market share and control expenses.

Our ability to attract and retain qualified employees.

Changes in the competitive environment in our markets and among banking organizations and other financial service providers.

The effect of changes in accounting policies and practices, as may be adopted by the regulatory agencies, as well as the Public Company Accounting Oversight Board, the Financial Accounting Standards Board and other accounting standard setters.

• Changes in the reliability of our vendors, internal control systems or information systems.

Changes in our liquidity position.

Changes in our organization, compensation and benefit plans.

The costs and effects of legal and regulatory developments, the resolution of legal proceedings or regulatory or other governmental inquiries, the results of regulatory examinations or reviews and the ability to obtain required regulatory approvals.

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Greater than expected costs or difficulties related to the integration of new products and lines of business.

Our success at managing the risks involved in the foregoing items.

Forward-looking statements speak only as of the date on which such statements are made. We do not undertake any obligation to update any forward-looking statement to reflect events or circumstances after the date on which such statement is made, or to reflect the occurrence of unanticipated events.

Application of Critical Accounting Policies and Accounting Estimates

We follow accounting and reporting policies that conform, in all material respects, to accounting principles generally accepted in the United States and to general practices within the financial services industry. The preparation of financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. While we base estimates on historical experience, current information and other factors deemed to be relevant, actual results could differ from those estimates.

We consider accounting estimates to be critical to reported financial results if (i) the accounting estimate requires management to make assumptions about matters that are highly uncertain and (ii) different estimates that management reasonably could have used for the accounting estimate in the current period, or changes in the accounting estimate that are reasonably likely to occur from period to period, could have a material impact on our financial statements. Accounting policies related to the allowance for loan losses are considered to be critical, as these policies involve considerable subjective judgment and estimation by management. The allowance for loan losses is a reserve established through a provision for loan losses charged to expense, which represents management's best estimate of probable losses that have been incurred within the existing portfolio of loans. The allowance, in the judgment of management, is necessary to reserve for estimated loan losses and risks inherent in the loan portfolio. Our allowance for loan loss methodology includes allowance allocations calculated in accordance with Accounting Standards Codification (ASC) Topic 310, "Receivables" and allowance allocations calculated in accordance with ASC Topic 450, "Contingencies." The level of the allowance reflects management's continuing evaluation of industry concentrations, specific credit risks, loan loss experience, current loan portfolio quality, present economic, political and regulatory conditions and unidentified losses inherent in the current loan portfolio, as well as trends in the foregoing. Portions of the allowance may be allocated for specific credits; however, the entire allowance is available for any credit that, in management's judgment, should be charged off. While management utilizes its best judgment and information available, the ultimate adequacy of the allowance is dependent upon a variety of factors beyond our control, including the performance of our loan portfolio, the economy, changes in interest rates and the view of the regulatory authorities toward loan classifications. See the section captioned "Allowance for Loan Losses" elsewhere in this discussion and Note 4 - Loans in the notes to consolidated financial statements included in Item 8. Financial Statements and Supplementary Data elsewhere in this report for further details of the risk factors considered by management in estimating the necessary level of the allowance for loan losses.

Overview

The following discussion and analysis presents the more significant factors that affected our financial condition as of December 31, 2016 and 2015 and results of operations for each of the years in the three-year period ended December 31, 2016. This discussion and analysis should be read in conjunction with our consolidated financial statements, notes thereto and other financial information appearing elsewhere in this report. During 2014, we acquired WNB Bancshares, Inc., a privately-held bank holding company headquartered in Odessa, Texas ("WNB"). From time to time, we have also acquired various small businesses through our insurance subsidiary. All of our acquisitions during the reported periods were accounted for using the acquisition method, and as such, their related results of operations are included from the date of acquisition, though none of these acquisitions had a significant impact on our financial statements during their respective reporting periods.

Taxable-equivalent adjustments are the result of increasing income from tax-free loans and investments by an amount equal to the taxes that would be paid if the income were fully taxable based on a 35% federal tax rate, thus making tax-exempt yields comparable to taxable asset yields.

Dollar amounts in tables are stated in thousands, except for per share amounts.

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Results of Operations

Net income available to common shareholders totaled \$296.2 million, or \$4.70 diluted per common share, in 2016 compared to \$271.3 million, or \$4.28 diluted per common share, in 2015 and \$269.9 million, or \$4.29 diluted per common share, in 2014. The operating results of acquired entities are included with our results of operations since their dates of acquisition. See Note 2 - Mergers and Acquisitions in the accompanying consolidated financial statements.

Selected income statement data, returns on average assets and average equity and dividends per share for the comparable periods were as follows:

	2016	2015	2014
Taxable-equivalent net interest income	\$939,958	\$888,035	\$807,937
Taxable-equivalent adjustment	163,622	151,403	121,003
Net interest income	776,336	736,632	686,934
Provision for loan losses	51,673	51,845	16,314
Non-interest income	349,708	328,730	320,144
Non-interest expense	732,960	693,718	654,740
Income before income taxes	341,411	319,799	336,024
Income taxes	37,150	40,471	58,047
Net income	304,261	279,328	277,977
Preferred stock dividends	8,063	8,063	8,063
Net income available to common shareholders	\$296,198	\$271,265	\$269,914
Earnings per common share - basic	\$4.73	\$4.31	\$4.32
Earnings per common share - diluted	4.70	4.28	4.29
Dividends per common share	2.15	2.10	2.03
Return on average assets	1.03 %	0.97 %	1.05 %
Return on average common equity	10.16	9.86	10.51
Average shareholders' equity to average assets	10.61	10.32	10.53

Net income available to common shareholders increased \$24.9 million for 2016 compared to 2015. The increase was primarily the result of a \$39.7 million increase in net interest income, a \$21.0 million increase in non-interest income and a \$3.3 million decrease in income tax expense, partly offset by a \$39.2 million increase in non-interest expense. Net income available to common shareholders increased \$1.4 million for 2015 compared to 2014. The increase was primarily the result of a \$49.7 million increase in net interest income, an \$8.6 million increase in non-interest income and a \$17.6 million decrease in income tax expense partly offset by a \$39.0 million increase in non-interest expense and a \$35.5 million increase in the provision for loan losses.

Details of the changes in the various components of net income are further discussed below.

Net Interest Income

Net interest income is the difference between interest income on earning assets, such as loans and securities, and interest expense on liabilities, such as deposits and borrowings, which are used to fund those assets. Net interest income is our largest source of revenue, representing 68.9% of total revenue during 2016. Net interest margin is the ratio of taxable-equivalent net interest income to average earning assets for the period. The level of interest rates and the volume and mix of earning assets and interest-bearing liabilities impact net interest income and net interest margin.

The Federal Reserve influences the general market rates of interest, including the deposit and loan rates offered by many financial institutions. Our loan portfolio is significantly affected by changes in the prime interest rate. The prime interest rate, which is the rate offered on loans to borrowers with strong credit, remained at 3.25% during most of 2015 and all of 2014. In December 2015, the prime rate increased 25 basis points to 3.50% and remained at that level through most of 2016. In December 2016, the prime rate increased 25 basis points to 3.75%. Our loan portfolio is also impacted, to a lesser extent, by changes in the London Interbank Offered Rate (LIBOR). At December 31, 2016, the one-month and three-month U.S. dollar LIBOR rates were 0.77% and 1.00%, respectively, while at December 31, 2015, the one-month and three-month U.S. dollar LIBOR rates were 0.43% and 0.61%, respectively. The intended

federal funds rate, which is the cost of immediately available overnight funds, remained at zero to 0.25% during most of 2015 and all of

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2014. In December 2015, the intended federal funds rate increased 25 basis points to 0.50% and remained at that level through most of 2016. In December 2016, the intended federal funds rate increased 25 basis points to 0.75%. We are primarily funded by core deposits, with non-interest-bearing demand deposits historically being a significant source of funds. This lower-cost funding base is expected to have a positive impact on our net interest income and net interest margin in a rising interest rate environment. The Dodd-Frank Wall Street Reform and Consumer Protection Act (the "Dodd-Frank Act") repealed the federal prohibitions on the payment of interest on demand deposits, thereby permitting depository institutions to pay interest on business transaction and other accounts beginning July 21, 2011. To date, we have not experienced any significant additional interest costs as a result of the repeal; however, we may begin to incur interest costs associated with certain demand deposits in the future as market conditions warrant. See Item 7A. Quantitative and Qualitative Disclosures About Market Risk elsewhere in this report for information about the expected impact of this legislation on our sensitivity to interest rates. Further analysis of the components of our net interest margin is presented below.

The following table presents the changes in taxable-equivalent net interest income and identifies the changes due to differences in the average volume of earning assets and interest-bearing liabilities and the changes due to changes in the average interest rate on those assets and liabilities. The changes in net interest income due to changes in both average volume and average interest rate have been allocated to the average volume change or the average interest rate change in proportion to the absolute amounts of the change in each. The comparison between the periods includes an additional change factor that shows the effect of the difference in the number of days in each period for assets and liabilities that accrue interest based upon the actual number of days in the period, as further discussed below. Our consolidated average balance sheets along with an analysis of taxable-equivalent net interest income are presented in Item 8. Financial Statements and Supplementary Data of this report.

2015

2014

	2016 vs. 2015				2015 vs. 2014							
	Increase (Decrease) Due to Change in				Increase (Decrease) Due to Change in							
	Rate		Volume]	Number of Days	Total	Rate		Volume		Total	
Interest-bearing deposits	\$7,896		\$40		\$44	\$7,980	\$412		\$(3,014)	\$(2,602)
Federal funds sold and resell agreements	67		97		1	165	2		22		24	
Securities:												
Taxable	(5,340)	(4,442) 2	206	(9,576)	(1,319))	20,833		19,514	
Tax-exempt	(1,231)	30,149			28,918	485		68,389		68,874	
Loans, net of unearned discounts	11,753		10,629		1,266	23,648	(47,442))	40,057		(7,385)
Total earning assets	13,145		36,473		1,517	51,135	(47,862))	126,287		78,425	
Savings and interest checking			55		3	58			72		72	
Money market deposit accounts	(1,557)	(201)	13	(1,745)	(1,900))	466		(1,434)
Time accounts	(65)	(81) 4	4	(142)	(387))	(193)	(580)
Public funds	47		5		1	53	(73))	17		(56)
Federal funds purchased and repurchase agreements	_		36		1	37	25		8		33	
Junior subordinated deferrable interest debentures	555		1	-	_	556	136		101		237	
Subordinated notes payable and other notes	394		1	-		395	56		(1)	55	
Total interest-bearing liabilities	(626)	(184) :	22	(788)	(2,143))	470		(1,673)
Net change	\$13,771		\$36,657		\$1,495	\$51,923	\$(45,719))	\$125,817		\$80,098	3
Tayable-equivalent net interest income for 2	016 incres	26	ed \$51 0	m	illion o	r 5 8% co	mnared to	21	015			

Taxable-equivalent net interest income for 2016 increased \$51.9 million, or 5.8%, compared to 2015.

Taxable-equivalent net interest income for 2016 included 366 days compared to 365 days for the same period in 2015 as a result of the leap year. The additional day added approximately \$1.5 million to taxable-equivalent net interest income during 2016. Excluding the impact of the additional day results in an effective increase in taxable-equivalent

net interest income of approximately \$50.4 million during 2016. The increase in taxable-equivalent net interest income during 2016, excluding the effect of the aforementioned additional day, was primarily related to the impact of increases in the average volume of tax-exempt securities and loans as well as increases in the average yield on loans and interest-bearing deposits partly offset by the impact of decreases in the average yield and volume of taxable securities. Taxable-equivalent net interest income during 2016 was also positively impacted by a decrease in the average rate paid on money market

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deposit accounts. The average volume of interest-earning assets for 2016 increased \$762.5 million or 2.9% compared to 2015. The increase in earning assets reflected a \$442.7 million increase in average securities, a \$287.4 million increase in average loans and a \$32.3 million increase in average federal funds sold, resell agreements and interest-bearing deposits.

Taxable-equivalent net interest income for 2015 increased \$80.1 million, or 9.9%, compared to 2014. The increase primarily related to an increase in the average volume of interest-earning assets, with a higher proportion of those assets invested in higher-yielding securities and loans rather than lower-yielding interest-bearing deposits, partly offset by the effect of a decrease in the average yield on loans. The average volume of interest-earning assets for 2015 increased \$2.1 billion or 8.7% compared to 2014. The increase in earning assets reflected a \$2.2 billion increase in average securities and a \$968.4 million increase in average loans partly offset by a \$1.1 billion decrease in average interest-bearing deposits. The increase in the average volume of interest-earning assets during 2015 was partly impacted by the acquisition of WNB during the second quarter of 2014, discussed below, as the assets acquired impacted our average balances for a full year in 2015 compared to only part of the year in 2014.

The net interest margin increased 11 basis points from 3.45% during 2015 to 3.56% during 2016. The increase was primarily due to increases in the average yield on interest earning assets. The average yield on interest-earning assets

increased 10 basis points to 3.60% during 2016 from 3.50% during 2015 while the average rate paid on interest-bearing liabilities decreased 1 basis point from 0.09% during 2015 to 0.08% during 2016. The increase in the average yield on interest earning assets during 2016 was due to increases in the average yields on interest-bearing deposits, federal funds sold and resell agreements, loans and total securities. The average yield on interest-earning assets and the average rate paid on interest-bearing liabilities are primarily impacted by changes in market interest rates as well as changes in the volume and relative mix of the underlying assets and liabilities.

The net interest margin increased 4 basis points from 3.41% during 2014 to 3.45% during 2015. As noted above, the net interest margin during 2015 was positively impacted by a decrease in the relative proportion of average interest-earning assets invested in lower-yielding interest-bearing deposits and an increase in the relative proportion of average interest-earning assets invested in higher-yielding securities and loans, while the net interest margin was negatively impacted by a decrease in the average yields on loans. The average yield on interest-earning assets increased 3 basis points to 3.50% during 2015 from 3.47% during 2014 while the average rate paid on interest-bearing liabilities decreased 2 basis points from 0.11% during 2014 to 0.09% during 2015.

The average volume of loans increased \$287.4 million, or 2.6%, in 2016 compared to 2015 and increased \$968.4 million, or 9.4%, in 2015 compared to 2014. As discussed above, we acquired \$670.6 million in loans in connection with the acquisition of WNB during the second quarter of 2014. Loans made up approximately 43.2% of average interest-earning assets during 2016 compared to 43.4% during 2015 and 43.1% in 2014. The average yield on loans was 4.01% during 2016 compared to 3.90% during 2015 and 4.34% during 2014. The average yield on loans increased 11 basis points during 2016 compared to 2015 and was positively impacted by higher market interest rates compared to 2015, as discussed above. Compared to 2014, the average yield on loans during 2015 was negatively impacted by lower average spreads due to increased competition in loan pricing. Furthermore, the decrease in the average yield on loans in 2015 compared to 2014 was also partly related to the completion of the amortization of a deferred accumulated gain related to settled interest rate swap contracts in October 2014. The interest swap contracts related to various cash flow hedges that effectively converted certain variable-rate loans into fixed-rate instruments for a period of seven years. We terminated the hedges in 2009 and 2010 and deferred the related gains on settlement, which were then amortized over the original lives of the underlying swap contracts. See Note 16 - Derivative Financial Instruments in the accompanying notes to consolidated financial statements included elsewhere in this report for additional information related to these interest rate swaps. The amortization of the deferred accumulated gain positively impacted our average yield on loans by 30 basis points during 2014. In an effort to offset the loss of the amortization and its positive effect on our net interest income, we utilized \$840 million in excess liquidity to purchase municipal securities during the third and fourth quarters of 2014. The higher yields associated with these securities relative to the yield that would have been received had these funds continued to be held as interest-bearing deposits and federal funds sold replaced the revenue stream from the amortization of the deferred accumulated gain applicable to the settled interest rate swaps so that our net interest income was not significantly impacted.

The average yield on securities was 4.02% in 2016 compared to 3.97% in 2015 and 3.96% in 2014. Despite the fact that the average yield on taxable securities decreased 10 basis points from 2.11% during 2015 to 2.01% during 2016 and the average yield on tax-exempt securities decreased 2 basis points from 5.59% during 2015 to 5.57% during 2016, the overall average yield on securities increased from 2015 to 2016 due to a higher proportion of average securities

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invested in higher yielding tax-exempt securities during 2016. The average yield on taxable securities was 2.14% in 2014, while the average taxable-equivalent yield on tax-exempt securities was 5.58% in 2014. Tax exempt securities made up approximately 56.4% of total average securities during 2016, compared to 53.2% during the 2015 and 52.6% during 2014. The average volume of securities increased \$442.7 million, or 3.8%, during 2016 compared to 2015 and increased \$2.2 billion, or 24.0%, during 2015 compared to 2014. These increases were primarily related to the investment of excess liquidity from deposit growth, which included the aforementioned \$840 million investment in municipal securities in 2014. Securities made up approximately 45.1% of average interest-earning assets in 2016 compared to 44.8% in 2015 and 39.2% in 2014.

Average federal funds sold, resell agreements and interest-bearing deposits during 2016 increased \$32.3 million, or 1.1%, compared to 2015 and decreased \$1.1 billion, or 27.0%, in 2015 compared to 2014. The decrease in average federal funds sold, resell agreements and interest-bearing deposits during 2015 was primarily related to the reinvestment of such funds into higher-yielding loans and securities. Federal funds sold, resell agreements and interest-bearing deposits made up approximately 11.6% of average interest-earning assets during 2016 compared to approximately 11.8% in 2015 and 17.6% in 2014. The combined average yield on federal funds sold, resell agreements and interest-bearing deposits was 0.53% during 2016, 0.27% during 2015, and 0.26% during 2014. As discussed above, the intended federal funds rate increased 25 basis points in December 2015, to 0.50% and remained at that level through most of 2016. In December 2016, the intended federal funds rate increased 25 basis points to 0.75%.

Average deposits increased \$471.1 million, or 2.0%, in 2016 compared to 2015 and \$2.0 billion, or 9.0%, in 2015 compared to 2014. Average deposits during 2015 were impacted by the acquisition of \$1.6 billion in deposits in connection with the acquisition of WNB during the second quarter of 2014. Average interest-bearing deposits increased \$616.6 million in 2016 compared to 2015 and \$933.2 million in 2015 compared to 2014, while average non-interest-bearing deposits decreased \$145.5 million in 2016 compared to 2015 and increased \$1.1 billion in 2015 compared to 2014. The ratio of average interest-bearing deposits to total average deposits was 59.1% in 2016 compared to 57.7% in 2015 and 58.6% in 2014. The average cost of deposits is primarily impacted by changes in market interest rates as well as changes in the volume and relative mix of interest-bearing deposits. The average rate paid on interest-bearing deposits and total deposits was 0.05% and 0.03% in 2016 compared to 0.07% and 0.04% in 2015 and 0.09% and 0.05% in 2014. The decrease in the average raid paid on interest-bearing deposits during the comparable periods was primarily the result of decreases in interest rates offered on certain deposit products due to decreases in average market interest rates and decreases in renewal interest rates on maturing certificates of deposit given the current low interest rate environment. Additionally, the relative proportion of higher-cost certificates of deposit to total average interest-bearing deposits decreased to 5.6% in 2016 from 6.3% in 2015 and 7.5% in 2014. Our net interest spread, which represents the difference between the average rate earned on earning assets and the average rate paid on interest-bearing liabilities, was 3.52% in 2016 compared to 3.41% in 2015 and 3.36% in 2014. The net interest spread, as well as the net interest margin, will be impacted by future changes in short-term and long-term interest rate levels, as well as the impact from the competitive environment. A discussion of the effects of changing interest rates on net interest income is set forth in Item 7A. Quantitative and Qualitative Disclosures About Market Risk included elsewhere in this report.

Our hedging policies permit the use of various derivative financial instruments, including interest rate swaps, swaptions, caps and floors, to manage exposure to changes in interest rates. Details of our derivatives and hedging activities are set forth in Note 16 - Derivative Financial Instruments in the accompanying notes to consolidated financial statements included elsewhere in this report. Information regarding the impact of fluctuations in interest rates on our derivative financial instruments is set forth in Item 7A. Quantitative and Qualitative Disclosures About Market Risk included elsewhere in this report.

Provision for Loan Losses

The provision for loan losses is determined by management as the amount to be added to the allowance for loan losses after net charge-offs have been deducted to bring the allowance to a level which, in management's best estimate, is necessary to absorb inherent losses within the existing loan portfolio. The provision for loan losses totaled \$51.7 million in 2016 compared to \$51.8 million in 2015 and \$16.3 million in 2014. See the section captioned "Allowance"

for Loan Losses" elsewhere in this discussion for further analysis of the provision for loan losses.

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Non-Interest Income

The components of non-interest income were as follows:

	2016	2015	2014
Trust and investment management fees	\$104,240	\$105,512	\$106,237
Service charges on deposit accounts	81,203	81,350	81,946
Insurance commissions and fees	47,154	48,926	45,115
Interchange and debit card transaction fees	21,369	19,666	18,372
Other charges, commissions and fees	39,623	37,551	36,180
Net gain (loss) on securities transactions	14,975	69	38
Other	41,144	35,656	32,256
Total	\$349,708	\$328,730	\$320,144

Total non-interest income for 2016 increased \$21.0 million, or 6.4%, compared to 2015 while total non-interest income for 2015 increased \$8.6 million, or 2.7%, compared to 2014. Changes in the various components of non-interest income are discussed in more detail below.

Trust and Investment Management Fees. Trust and investment management fee income for 2016 decreased \$1.3 million, or 1.2%, compared to 2015 while trust and investment management fee income for 2015 decreased \$725 thousand, or 0.7%, compared to 2014. Investment fees are the most significant component of trust and investment management fees, making up approximately 82%, 79% and 75% of total trust and investment management fees in 2016, 2015 and 2014, respectively. Investment and other custodial account fees are generally based on the market value of assets within a trust account. Volatility in the equity and bond markets impacts the market value of trust assets and the related investment fees.

The decrease in trust and investment management fees during 2016 compared to 2015 was primarily the result of decreases in oil and gas fees (down \$1.2 million), estate fees (down \$970 thousand), securities lending income (down \$741 thousand) and custody fees (down \$168 thousand). These decreases were partly offset by an increase in trust investment fees (up \$1.8 million). The decrease in oil and gas fees during 2016 was partly due to lower energy prices and decreased production. The decrease in estate fees during 2016 was related to a decrease in the aggregate value of estates settled compared to 2015. The decrease in securities lending income during 2016 was due to the termination of our securities lending operations during the first quarter of 2015 in part due to the negative impact securities lending transactions would have had on our regulatory capital ratios under Basel III capital rules. See Note 10 - Capital and Regulatory Matters in the accompanying notes to consolidated financial statements included elsewhere in this report. The increase in trust investment fees during 2016 was due to higher average equity valuations on managed accounts and an increase in the number of accounts.

The decrease in trust and investment management fees during 2015 compared to 2014 was primarily the result of decreases in securities lending income (down \$2.6 million) and oil and gas fees (down \$2.5 million) mostly offset by an increase in trust investment fees (up \$4.6 million). Securities lending income decreased during 2015 as we discontinued our securities lending operations during the first quarter of 2015, as discussed above. The decrease in oil and gas fees during 2015 was primarily due to lower energy prices and decreased production. The increase in trust investment fees during 2015 was partly due to higher average equity valuations and an increase in the number of accounts.

At December 31, 2016, trust assets, including both managed assets and custody assets, were primarily composed of equity securities (46.9% of trust assets), fixed income securities (38.6% of trust assets) and cash equivalents (9.9% of trust assets). The estimated fair value of trust assets was \$29.3 billion (including managed assets of \$13.4 billion and custody assets of \$15.9 billion) at December 31, 2016 compared to \$30.7 billion (including managed assets of \$13.2 billion and custody assets of \$17.5 billion) at December 31, 2015 and \$30.5 billion (including managed assets of \$13.0 billion and custody assets of \$17.5 billion) at December 31, 2014.

Service Charges on Deposit Accounts. Service charges on deposit accounts for 2016 decreased \$147 thousand, or 0.2%, compared to 2015. The decrease was primarily due to a decrease in service charges on consumer accounts (down \$945 thousand) partly offset by increases in service charges on commercial accounts (up \$384 thousand), overdraft/insufficient funds charges on consumer accounts (up \$260 thousand) and overdraft/insufficient funds

charges on commercial accounts (up \$192 thousand). Service charges on deposit accounts for 2015 decreased \$596 thousand, or

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0.7%, compared to 2014. The decrease was primarily due to decreases in overdraft/insufficient funds charges on consumer accounts (down \$241 thousand), service charges on consumer accounts (down \$205 thousand) and service charges on commercial accounts (down \$163 thousand). Overdraft/insufficient funds charges totaled \$32.5 million during 2016 compared to \$32.0 million during 2015 and \$32.3 million in 2014. Overdraft/insufficient funds charges included \$25.0 million, \$24.8 million and \$25.0 million related to consumer accounts during 2016, 2015 and 2014, respectively, and \$7.5 million, \$7.3 million and \$7.3 million related to commercial accounts during 2016, 2015 and 2014, respectively.

Insurance Commissions and Fees. Insurance commissions and fees for 2016 decreased \$1.8 million, or 3.6%, compared to 2015. The decrease was related to a decrease in commission income (down \$2.8 million) partly offset by an increase in contingent commissions (up \$1.1 million). The decrease in commission income during 2016 was primarily related to declines in employee benefit plan commissions and consulting fees due to lower business volumes and decreases in commercial lines property and casualty commissions. Insurance commissions and fees for 2015 increased \$3.8 million, or 8.4%, compared to 2014. The increase was partly related to an increase in commission income (up \$2.0 million). The increase in commission income during 2015 was primarily related to increases in employee benefit plan commissions and fees and commercial lines property and casualty commissions. The increase in insurance commissions and fees during 2015 was also partly related in an increase in contingent commissions (up \$1.8 million).

Insurance commissions and fees include contingent commissions which totaled \$6.5 million in 2016, \$5.5 million in 2015 and \$3.6 million 2014. Contingent commissions primarily consist of amounts received from various property and casualty insurance carriers related to the loss performance of insurance policies previously placed. Such commissions are seasonal in nature and are mostly received during the first quarter of each year. These commissions totaled \$4.9 million in 2016, \$3.8 million in 2015 and \$2.0 million in 2014. Contingent commissions also include amounts received from various benefit plan insurance companies related to the volume of business generated and/or the subsequent retention of such business. These commissions totaled \$1.7 million in 2016, \$1.7 million in 2015 and \$1.6 million in 2014.

Interchange and Debit Card Transaction Fees. Interchange fees, or "swipe" fees, are charges that merchants pay to us and other card-issuing banks for processing electronic payment transactions. Interchange and debit card transaction fees consist of income from check card usage, point of sale income from PIN-based debit card transactions and ATM service fees. Interchange and debit card transaction fees for 2016 increased \$1.7 million, or 8.7% compared to 2015 and increased \$1.3 million, or 7.0%, in 2015 compared to 2014. Income from debit card transactions totaled approximately \$17.9 million in 2016 compared to \$17.0 million in 2015 and \$16.0 million in 2014. ATM service fees totaled approximately \$3.5 million in 2016 compared to \$2.7 million in 2015 and \$2.4 million in 2014. The increase in ATM service fees in 2016 was partly related to a change in the fee schedule during the first quarter of 2016 while the increases in income from debit card transactions during the comparable periods were related to volume increases. Federal Reserve Board rules applicable to financial institutions that have assets of \$10 billion or more provide that the maximum permissible interchange fee for an electronic debit transaction is the sum of 21 cents per transaction and 5 basis points multiplied by the value of the transaction. An upward adjustment of no more than 1 cent to an issuer's debit card interchange fee is allowed if the card issuer develops and implements policies and procedures reasonably designed to achieve certain fraud-prevention standards. The Federal Reserve Board also has rules governing routing and exclusivity that require issuers to offer two unaffiliated networks for routing transactions on each debit or prepaid product.

Other Charges, Commissions and Fees. Other charges, commissions and fees for 2016 increased \$2.1 million, or 5.5%, compared to 2015. The increase included increases in income related to the sale of money market accounts (up \$815 thousand), loan processing fees (up \$627 thousand), origination fees collected on loans that did not fund (up \$464 thousand), agent income from the sale of federal funds (up \$397 thousand), wire transfer fees (up \$309 thousand), lease processing fees (up \$227 thousand) and income from corporate finance and capital market advisory services (up \$213 thousand), among other things. These increases were partly offset by decreases in income related to the sale of annuities (down \$802 thousand), unused balance fees on loan commitments (down \$405 thousand) and income related to the sale of mutual funds (down \$264 thousand). Fluctuations in the

aforementioned items were due to fluctuations in business volumes.

Other charges, commissions and fees for 2015 increased \$1.4 million or 3.8%, compared to 2014. The increase in other charges, commissions and fees included increases in income from capital markets fees related to financial advisory services (up \$1.5 million) and letters of credit fees (up \$826 thousand), among other things. These increases were partly

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offset by decreases in income from corporate finance advisory services (down \$687 thousand) and human resources consulting fee income (down \$425 thousand), among other things. Income from capital markets financial advisory services are transactional in nature and, as such, fees for such services can vary significantly from period to period. The increase in letter of credit fees was partly related to an increase in volume. The decrease in income from corporate finance advisory services was partly related to the discontinuation of the operations of Frost Securities in 2015. The decrease in human resources consulting fee income was related to a decline in service volumes.

Net Gain/Loss on Securities Transactions. During 2016, we sold available-for-sale securities with an amortized cost totaling \$14.8 billion and realized a net gain of \$11.2 million on those sales. We also sold held-to-maturity securities with an amortized cost totaling \$132.9 million and realized a net gain of \$3.7 million on those sales. As more fully discussed in Note 2 - Securities in the accompanying notes to consolidated financial statements included elsewhere in this report, a portion of the available-for-sale securities and all of the held-to maturity securities that were sold during 2016 were sold as a result of a significant deterioration in the creditworthiness of the issuers. In aggregate, the securities sold as a result of credit deterioration had an amortized cost totaling \$528.6 million and we realized a net gain of \$11.9 million on those sales. We sold U.S Treasury securities with an amortized cost totaling \$13.7 billion and realized a net loss of \$57 thousand on those sales. The sales were primarily related to securities purchased during 2016 and subsequently sold in connection with our tax planning strategies related to the Texas franchise tax. The gross proceeds from the sales of these securities outside of Texas are included in total revenues/receipts from all sources reported for Texas franchise tax purposes, which results in a reduction in the overall percentage of revenues/receipts apportioned to Texas and subjected to taxation under the Texas franchise tax. Other securities sold during 2016 included available-for-sale U.S. Treasury securities with an amortized cost totaling \$764.5 million and we realized a net gain of \$3.3 million on those sales. Most of these securities were due to mature during 2016 and most of the proceeds from the sale of these securities were reinvested into U.S. Treasury securities having comparable yields, but longer-terms.

During 2015, we sold available-for-sale securities with an amortized cost totaling \$12.7 billion and realized a net gain of \$69 thousand on those sales. We sold an available-for-sale U.S. Treasury security with an amortized cost totaling \$223.8 million and realized a gain of \$228 thousand on the sale. The security sold had a short term and low yield. The proceeds from the sale of this security were reinvested into longer-term, higher-yielding securities. The remaining sales were primarily related to securities purchased during 2015 and subsequently sold in connection with our aforementioned tax planning strategies related to the Texas franchise tax.

During 2014, we sold available-for-sale securities with an amortized cost totaling \$12.2 billion and realized a net gain of \$38 thousand on those sales. The majority of these securities were primarily purchased during 2014 and subsequently sold in connection with our aforementioned tax planning strategies related to the Texas franchise tax. We also sold approximately \$2.0 million of municipal securities acquired in connection with the acquisition of WNB during the second quarter of 2014.

Other Non-Interest Income. Other non-interest income for 2016 increased \$5.5 million, or 15.4%, compared to 2015. The increase was primarily related to increases in gains on the sale of foreclosed and other assets (up \$7.3 million), income from customer foreign currency transactions (up \$592 thousand) and income from customer derivative and trading activities (up \$491 thousand) partly offset by decreases in mineral interest income (down \$1.9 million) and sundry and other miscellaneous income (down \$1.2 million). The increase in gains on the sale of foreclosed and other assets was primarily related to the realization of a \$10.3 million net gain on the sale of our headquarters building and other adjacent properties in connection with a comprehensive development agreement with the City of San Antonio and a third party. See Note 5 - Premises and Equipment in the accompanying notes to consolidated financial statements included elsewhere in this report. During 2016, sundry and other miscellaneous income included, among other things, \$1.8 million in VISA check card incentives related to business volumes and \$1.4 million related to recoveries of prior write-offs, while sundry and other miscellaneous income during 2015 included, among other things, \$1.2 million related to distributions received on a small business investment company ("SBIC") investment, \$1.7 million related to recoveries of prior write-offs, \$1.7 million in VISA check card incentives related to business volumes and \$324 thousand related to an insurance settlement. Mineral interest income is primarily related to oil and gas royalties received from severed mineral interests owned by our wholly-owned non-banking subsidiary Main Plaza

Corporation. The decrease in mineral interest income was partly related to lower energy prices and a decrease in production. The fluctuations in public finance underwriting fees, income from customer foreign currency transactions and income from customer derivative and trading activities were primarily related to changes in business volumes. Other non-interest income for 2015 increased \$3.4 million, or 10.5%, compared to 2014. The increase was primarily due to increases in income from public finance underwriting fees (up \$3.1 million), gains on the sale of foreclosed and

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other assets (up \$2.9 million), income from customer derivative and trading activities (up \$1.0 million) and earnings on life insurance policies (up \$580 thousand) partly offset by decreases in mineral interest income (down \$2.5 million) and sundry and other miscellaneous income (down \$1.4 million) and lease rental income (down \$315 thousand). The increase in income from public finance underwriting fees during 2015 was primarily related to transaction volumes. During 2015, gains on the sale of foreclosed and other assets included, among other things, \$2.0 million related to a gain from the redemption of stock in another financial institution that was acquired in prior bank acquisitions. The increase in income from customer derivative and trading activities was primarily related to an increase in the volume of customer interest rate swap transactions. The decrease in mineral interest income was partly related to lower energy prices and a decrease in production. During 2015, sundry and other miscellaneous income included, among other things, the aforementioned \$1.2 million related to distributions received on an SBIC investment, \$1.7 million related to recoveries of prior write-offs, \$1.7 million in VISA check card incentives related to business volumes and \$324 thousand related to an insurance settlement. During 2014, sundry and other miscellaneous income included, among other things, \$2.4 million related to distributions received on an SBIC investment and \$2.1 million related to recoveries of prior write-offs and \$2.0 million in VISA check card incentives related to business volumes. Non-Interest Expense

The components of non-interest expense were as follows:

	2016	2015	2014
Salaries and wages	\$318,665	\$310,504	\$292,349
Employee benefits	72,615	69,746	60,151
Net occupancy	71,627	65,690	55,745
Furniture and equipment	71,208	64,373	62,087
Deposit insurance	17,428	14,519	13,232
Intangible amortization	2,429	3,325	3,520
Other	178,988	165,561	167,656
Total	\$732,960	\$693,718	\$654,740

Total non-interest expense for 2016 increased \$39.2 million, or 5.7%, compared to 2015 while total non-interest expense for 2015 increased \$39.0 million, or 6.0%, compared to 2014. Other non-interest expense during 2014 was impacted by the acquisition of WNB during the second quarter of 2014. Changes in the various components of non-interest expense are discussed below.

Salaries and Wages. Salaries and wages increased \$8.2 million, or 2.6%, in 2016 compared to 2015 and increased \$18.2 million, or 6.2%, in 2015 compared to 2014. The increase during 2016 compared to 2015 was primarily related to an increase in salaries due to an increase in the number of employees, normal annual merit and market increases and an increase in incentive compensation partly offset by a decrease in stock-based compensation. The increase during 2015 compared to 2014 was primarily related to an increase in the number of employees (partly related to the acquisition of WNB), normal annual merit and market increases and an increase in incentive compensation. Employee Benefits. Employee benefits expense for 2016 increased \$2.9 million, or 4.1%, compared to 2015. The increase was primarily due to increases in medical insurance expense (up \$1.8 million), payroll taxes (up \$898 thousand) and profit sharing plan expense (up \$620 thousand), among other things, partly offset by a decrease in expenses related to our defined benefit retirement plans (down \$599 thousand).

Employee benefits expense for 2015 increased \$9.6 million, or 16.0%, compared to 2014. The increase was partly related to increases in expenses related to our defined benefit retirement plans (up \$5.1 million). We recognized a combined net periodic pension expense of \$3.3 million on our defined benefit retirement plans during 2015 compared to a combined net periodic net pension benefit of \$1.8 million during 2014. The increase in employee benefits expense was also partly related to increases in 401(k) and profit sharing plan expense (up \$1.5 million), medical insurance expense (up \$1.4 million) and payroll taxes (up \$853 thousand). Other than expenses related to our defined benefit retirement plans, the aforementioned increases in the various categories of employee benefits expense were related to an increase in the number of employees, which includes those added in connection with the acquisition of WNB. Our defined benefit retirement and restoration plans were frozen effective as of December 31, 2001 and were replaced by the profit sharing plan. Management believes these actions help reduce the volatility in retirement plan expense.

However, we still have funding obligations related to the defined benefit and restoration plans and could recognize

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retirement expense related to these plans in future years, which would be dependent on the return earned on plan assets, the level of interest rates and employee turnover. We recognized a net expense related to the defined benefit retirement and restoration plans totaling \$2.7 million in 2016 compared to a net expense of \$3.3 million in 2015 and a net benefit of \$1.8 million in 2014. Net periodic pension expense during the 2016 included \$1.0 million in supplemental executive retirement plan ("SERP") settlement costs related to the retirement of a former executive officer. Despite the impact of these settlement costs, net periodic pension expense decreased during 2016 compared to 2015 in part due to a change in the method we use to estimate the interest cost component of net periodic benefit cost for our defined benefit pension and other post-retirement benefit plans. Future expense/benefits related to these plans is dependent upon a variety of factors, including the actual return on plan assets. For additional information related to our employee benefit plans, see Note 12 - Employee Benefit Plans in the accompanying notes to consolidated financial statements included elsewhere in this report.

Net Occupancy. Net occupancy expense for 2016 increased \$5.9 million, or 9.0%, compared to 2015. The increase was primarily related to increases in building depreciation (up \$2.7 million), property taxes (up \$1.4 million), repairs and maintenance/service contracts expense (up \$1.3 million) and depreciation on leasehold improvements (up \$764 thousand). The net increase in occupancy expense was partly related to a new operations and support center, a portion of which was placed into service during 2015 with the remainder placed into service in 2016, and new financial center locations.

Net occupancy expense for 2015 increased \$9.9 million, or 17.8%, compared to 2014. The increase was primarily related to increases in property taxes (up \$2.9 million), building depreciation (up \$2.1 million), lease expense (up \$1.8 million), depreciation on leasehold improvements (up \$964 thousand), repairs and maintenance expense (up \$943 thousand) and utilities expense (up \$616 thousand). The increases in these items were partly related to the additional facilities added in connection with the acquisition of WNB during the second quarter of 2014, a new operations and support center, a portion of which was placed into service during the second quarter of 2015, and new financial center locations.

Furniture and Equipment. Furniture and equipment expense for 2016 increased \$6.8 million, or 10.6%, compared to 2015. The increase was primarily related to increases in depreciation on furniture and equipment (up \$4.1 million) and software maintenance (up \$3.5 million) partly offset by decreases in software amortization (down \$593 thousand) and equipment rental expense (down \$306 thousand). The net increase in furniture and equipment expense was partly related to a new operations and support center, a portion of which was placed into service during 2015 with the remainder placed into service in 2016, and new financial center locations.

Furniture and equipment expense for 2015 increased \$2.3 million, or 3.7%, compared to 2014. The increase was primarily related to increases in expenses related to depreciation on furniture and equipment (up \$1.9 million), software maintenance (up \$1.7 million) and repairs and maintenance/service contracts expense (up \$1.3 million) partly offset by a decrease in software amortization (down \$2.5 million).

Deposit Insurance. Deposit insurance expense totaled \$17.4 million in 2016 compared to \$14.5 million in 2015 and \$13.2 million in 2014. The increase in deposit insurance expense during 2016 compared to 2015 was primarily related to an increase in the assessment rate and an increase in assets. The increase in the assessment rate was partly related to a new surcharge that became applicable during the third quarter of 2016. In August 2016, the Federal Deposit Insurance Corporation ("FDIC") announced that the Deposit Insurance Fund ("DIF") reserve ratio had surpassed 1.15% as of June 30, 2016. As a result, beginning in the third quarter of 2016, the range of initial assessment rates for all institutions was adjusted downward and institutions with \$10 billion or more in assets were assessed a quarterly surcharge. The quarterly surcharge will continue to be assessed until such time as the reserve ratio reaches the statutory minimum of 1.35% required by the Dodd-Frank Act. The increase in deposit insurance expense during 2015 compared to 2014 was primarily related to an increase in assets, which was partly related to the acquisition of WNB. We acquired \$879.7 million of cash and cash equivalents, \$670.6 million of loans, \$154.2 million of securities and \$1.6 billion of deposits in connection with that acquisition.

Intangible Amortization. Intangible amortization is primarily related to core deposit intangibles and, to a lesser extent, intangibles related to customer relationships and non-compete agreements. Intangible amortization totaled \$2.4 million in 2016 compared to \$3.3 million in 2015 and \$3.5 million in 2014. The decrease during the comparable

periods primarily related to the completion of amortization of certain previously recognized intangible assets as well as a reduction in the annual amortization rate of certain previously recognized intangible assets as we use an accelerated amortization approach which results in higher amortization rates during the earlier years of the useful lives of intangible

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assets. This decrease was partly offset by the additional amortization related to the intangible assets recorded in connection with acquisitions during the reported periods. See Note 6 - Goodwill and Other Intangible Assets in the accompanying notes to consolidated financial statements included elsewhere in this report.

Other Non-Interest Expense. Other non-interest expense for 2016 increased \$13.4 million, or 8.1%, compared to 2015. The increase was primarily related to increases in sundry and other miscellaneous expense (up \$6.1 million), donations expense (up \$4.4 million), check card expense (up \$2.6 million), guard service expense (up \$1.4 million), business development expense (up \$842 thousand) and outside computer services expense (up \$520 thousand), among other things, partly offset by decreases in advertising/promotions expense (down \$1.2 million) and travel/meals and entertainment expense (down \$953 thousand) and refund expenses associated with customer use of non-Frost ATMs (down \$456 thousand), among other things. Sundry and other miscellaneous expense during 2016 included \$6.7 million related to the write-down of certain assets that were disposed of in 2016 or that we intend to dispose of in 2017. The increase in donations expense was primarily related to a \$4.4 million contribution to our charitable foundation. The increase in check card expense during 2016 was primarily related the issuance of new ATM cards with embedded processing chips.

Other non-interest expense for 2015 decreased \$2.1 million, or 1.2%, compared to 2014. Other non-interest expense during 2014 was impacted by expenses related to the acquisition of WNB during the second quarter. See Note 2 - Mergers and Acquisitions in the accompanying notes to consolidated financial statements included elsewhere in this report. Acquisition related expenses included in other non-interest expenses totaled \$7.1 million during 2014. Such amounts included \$3.5 million in professional services expense, \$1.3 million in severance and \$2.3 million in various other expenses. Excluding these acquisition related expenses during 2014, other non-interest expense for 2015 effectively increased \$5.0 million, or 3.1%, compared to 2014. This effective increase was partly related to increases in professional services expense (up \$2.4 million), data communications expense (up \$1.8 million), guard service expense (up \$1.4 million), check card expense (up \$1.1 million) and travel/meals and entertainment expense (up \$1.1 million), among other things. The increases in these items were partly offset by decreases in donations expense (down \$1.3 million), losses on the sale/write-down of foreclosed and other assets (down \$964 thousand) and sundry expense and other miscellaneous items (down \$741 thousand).

Results of Segment Operations

Our operations are managed along two primary operating segments: Banking and Frost Wealth Advisors. A description of each business and the methodologies used to measure financial performance is described in Note 19 - Operating Segments in the accompanying notes to consolidated financial statements included elsewhere in this report. Net income (loss) by operating segment is presented below:

	2016	2015	2014
Banking	\$289,665	\$262,038	\$259,457
Frost Wealth Advisors	19,093	19,968	21,232
Non-Banks	(4,497)	(2,678)	(2,712)
Consolidated net income	\$304,261	\$279,328	\$277,977

Banking

Net income for 2016 increased \$27.6 million, or 10.5%, compared to 2015. The increase was primarily the result of a \$37.0 million increase in net interest income, a \$24.2 million increase in non-interest income and a \$1.3 million decrease in income tax expense partly offset by a \$35.0 million increase in non-interest expense. Net income for 2015 increased \$2.6 million, or 1.0%, compared to 2014. The increase was primarily the result of a \$49.1 million increase in net interest income, a \$16.9 million decrease in income tax expense and an \$11.7 million increase in non-interest income partly offset by a \$39.6 million increase in non-interest expense and a \$35.5 million increase in the provision for loan losses.

Net interest income for 2016 increased \$37.0 million, or 5.0%, compared to 2015 while net interest income for 2015 increased \$49.1 million, or 7.2%, compared to 2014. Taxable-equivalent net interest income for 2016 included an additional day of interest accrual compared to 2015 as a result of the leap year. Notwithstanding the effect of this additional day, the increase during 2016 was primarily related to the impact of increases in the average volume of tax-exempt securities and loans as well as increases in the average yield on loans and interest-bearing deposits partly

offset by the impact of decreases in the average yield and volume of taxable securities. Taxable-equivalent net interest income

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during 2016 was also positively impacted by a decrease in the average rate paid on money market deposit accounts. The increase during 2015 was primarily related to an increase in the average volume of interest-earning assets, with a higher proportion of those assets invested in higher-yielding securities and loans rather than lower-yielding interest-bearing deposits, partly offset by the effect of a decrease in the average yield on loans. The increase in the average volume of interest-earning assets during 2015 was partly impacted by the acquisition of WNB during the second quarter of 2014 as the assets acquired impacted our average balances for a full year in 2015 compared to only part of the year in 2014. See the analysis of net interest income included in the section captioned "Net Interest Income" included elsewhere in this discussion.

The provision for loan losses for 2016 totaled \$51.7 million compared to \$51.8 million in 2015 and \$16.3 million in 2014. See the analysis of the provision for loan losses included in the section captioned "Allowance for Loan Losses" included elsewhere in this discussion.

Non-interest income for 2016 increased \$24.2 million, or 11.8%, compared to 2015. The increase was primarily

related to increases in the net gain on securities transactions; other non-interest income; other charges, commissions and fees and interchange; and debit card transaction fees partly offset by decreases in insurance commissions and fees and service charges on deposit accounts. The increase in the net gain on securities transactions was primarily related to the sale of certain municipal securities as a result of a significant deterioration in the creditworthiness of the issuers. The increase in other non-interest income was primarily related to increases in gains on the sale of foreclosed and other assets, income from customer foreign currency transactions and income from customer derivative and trading activities partly offset by decreases in sundry and other miscellaneous income. The increase in gains on the sale of foreclosed and other assets was primarily related to the sale of our headquarters building and various adjacent properties in connection with a comprehensive development agreement with the City of San Antonio and a third party. See Note 5 - Premises and Equipment in the accompanying notes to consolidated financial statements included elsewhere in this report. The increase in other charges, commissions and fees was due to increases in loan processing fees, origination fees collected on loans that did not fund, agent income from the sale of federal funds, wire transfer fees, lease processing fees and income from corporate finance and capital market advisory services, among other things, partly offset by a decrease in unused balance fees on loan commitments. The decrease in insurance commissions and fees was related to a decrease in commission income partly offset by an increase in contingent commissions. The decrease in commission income during 2016 was primarily related to decreases in employee benefit plan commissions and consulting fees and commercial lines property and casualty commissions due to lower business volumes. The decrease in service charges on deposit accounts was primarily due to a decrease in service charges on consumer accounts partly offset by increases in service charges on commercial accounts and overdraft/insufficient funds charges on both consumer and commercial accounts. See the analysis of these categories of non-interest income included in the section captioned "Non-Interest Income" included elsewhere in this discussion. Non-interest income for 2015 increased \$11.7 million, or 6.0%, compared to 2014. The increase was primarily related to increases in other non-interest income; insurance commissions and fees; other charges, commissions and fees; and interchange and debit card transaction fees partly offset by a decrease in service charges on deposit accounts. The increase in other non-interest income was primarily due to increases in income from public finance underwriting fees, gains on the sale of foreclosed and other assets, income from customer derivative and trading activities and earnings on life insurance policies partly offset by decreases in sundry and other miscellaneous income and lease rental income. The increase in insurance commissions and fees was related to increases in employee benefit plan commissions and fees, commercial lines property and casualty commissions and contingent commissions. The increase in other charges, commissions and fees included increases in income from capital markets fees related to financial advisory services and letters of credit fees, among other things partly offset by decreases in income from corporate finance advisory services (due to the discontinuation of the operations of Frost Securities in 2015) and human resources consulting fee income, among other things. The increase in interchange and debit card transaction fees was primarily related to an increase in income from debit card transactions and ATM service fees. The decrease in services charges on deposit

accounts was primarily due to decreases in overdraft/insufficient funds charges on consumer accounts, service charges

non-interest income included in the section captioned "Non-Interest Income" included elsewhere in this discussion.

on consumer accounts and service charges on commercial accounts. See the analysis of these categories of

Non-interest expense for 2016 increased \$35.0 million, or 5.9%, compared to 2015. The increase was primarily related to increases in other non-interest expense, salaries and wages, furniture and equipment expense, net occupancy, deposit insurance, and employee benefits expense partly offset by a decrease in intangible amortization expense. The increase in other non-interest expense was primarily related to increases in sundry and other miscellaneous expense, donations expense, check card expense, guard service expense, business development expense and outside computer

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services expense, among other things, partly offset by decreases in advertising/promotions expense and travel/meals and entertainment expense and refund expenses associated with customer use of non-Frost ATMs, among other things. Sundry and other miscellaneous expense included the write-down of certain assets that were disposed of in 2016 or that we intend to dispose of in 2017. The increase in salaries and wages was primarily related to an increase in salaries due to an increase in the number of employees, normal annual merit and market increases and an increase in incentive compensation partly offset by a decrease in stock-based compensation. The increase in furniture and equipment expense was primarily related to an increase in depreciation on furniture and equipment and software maintenance partly offset by decreases in software amortization and equipment rental expense. The increase in net occupancy expense was primarily related to increases in building depreciation, property taxes, repairs and maintenance/service contracts expense and depreciation on leasehold improvements. The increases in furniture and equipment and net occupancy expense were partly related to a new operations and support center, a portion of which was placed into service during 2015 with the remainder placed into service in 2016, and new financial center locations. The increase in deposit insurance expense was primarily related to an increase in the assessment rate, in part due to a new surcharge that became applicable during 2016, and an increase in assets. The increase in employee benefits expense was primarily due to increases in medical insurance expense, payroll taxes and profit sharing plan expense, among other things, partly offset by a decrease in expenses related to our defined benefit retirement plans. The decrease in intangible amortization expense was primarily related to the completion of amortization of certain previously recognized intangible assets as well as a reduction in the annual amortization rate of certain previously recognized intangible assets as we use an accelerated amortization approach which results in higher amortization rates during the earlier years of the useful lives of intangible assets. This decrease was partly offset by the additional amortization related to the intangible assets recorded in 2016. See the analysis of these items included in the section captioned "Non-Interest Expense" included elsewhere in this discussion.

Non-interest expense for 2015 increased \$39.6 million, or 7.2%, compared to 2014. The increase was primarily related to increases in salaries and wages, net occupancy, employee benefits and, to a lesser extent, increases in furniture and equipment expense, other non-interest expense and deposit insurance. The increase in salaries and wages was primarily related to an increase in the number of employees (partly related to the acquisition of WNB), normal annual merit and market increases and an increase in incentive compensation. The increase in net occupancy expense was primarily related to increases in property taxes, building depreciation, lease expense, depreciation on leasehold improvements, repairs and maintenance expense and utilities expense. The increases in these items were partly related to the additional facilities added in connection with the acquisition of WNB during the second quarter of 2014, a new operations and support center, a portion of which was placed into service during the second quarter of 2015, and new financial center locations. The increase in employee benefits expense was related to increases in expenses related to our defined benefit retirement, 401(k) and profit sharing plans, medical insurance expense and payroll taxes. Other than expenses related to our defined benefit retirement plans, the aforementioned increases in the various categories of employee benefits expense were related to an increase in the number of employees, which includes those added in connection with the acquisition of WNB. The increase in furniture and equipment expense was primarily related to increases in expenses related to depreciation on furniture and equipment, software maintenance and service contracts expense partly offset by a decrease in software amortization. The increase in other non-interest expense was primarily due to increases in professional services expense, data communications expense, guard service expense, check card expense and travel/meals and entertainment expense, among other things, partly offset by decreases in donations expense, losses on the sale/write-down of foreclosed and other assets and sundry expense and other miscellaneous items. The increase in deposit insurance expense was primarily related to an increase in assets. See the analysis of these items included in the section captioned "Non-Interest Expense" included elsewhere in this discussion Income tax expense for 2016 decreased \$1.3 million, or 3.8%, compared to 2015 while income tax expense for 2015 decreased \$16.9 million, or 32.5%, compared to 2014. The decreases during the comparable periods were related to decreases in the effective tax rate, and for 2015, a decrease in pre-tax net income compared to 2014. The decreases in the effective tax rate during the comparable periods were partly related to increases in the relative proportion of tax-exempt income from higher volumes of tax-exempt municipal securities. The decrease in the effective tax rate during 2016 was also partly related to the adoption of a new accounting standard which impacted how the income tax

effects associated with stock-based compensation are recognized. See the section captioned "Income Taxes" included elsewhere in this discussion.

Frost Insurance Agency, which is included in the Banking operating segment, had gross commission revenues of \$47.8 million during 2016 compared to \$49.6 million during 2015 and \$45.8 million in 2014. Insurance commission revenues decreased \$1.8 million, or 3.6%, during 2016 compared to 2015 and increased \$3.8 million, or 8.4%, during 2015 compared to 2014. See the analysis of insurance commissions and fees included in the section captioned "Non-Interest Income" included elsewhere in this discussion.

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Frost Wealth Advisors

Net income for 2016 decreased \$875 thousand, or 4.4%, compared to 2015. The decrease was primarily due to a \$3.7 million increase in non-interest expense and a \$1.4 million decrease in non-interest income partly offset by a \$3.7 million increase in net interest income and a \$472 thousand decrease in income tax expense. Net income for 2015 decreased \$1.3 million, or 6.0%, compared to 2014. The decrease was primarily due to a \$2.1 million increase in non-interest expense and a \$772 thousand decrease in non-interest income partly offset by a \$900 thousand increase in net interest income and a \$678 thousand decrease in income tax expense.

Net interest income for 2016 increased \$3.7 million, or 48.5%, compared to 2015 while net interest income for 2015 increased \$900 thousand, or 13.4% compared to 2014. The increase in 2016 was primarily due to an increase in the funds transfer price received for funds provided related to Frost Wealth Advisors' repurchase agreements. The 2015 increase was due to an increase in the average volume of funds provided due to increases in the average volume of Frost Wealth Advisors' repurchase agreements and, to a lesser extent, an increase in the funds transfer price received for providing those funds.

Non-interest income for 2016 decreased \$1.4 million, or 1.1%, compared to 2015. The decrease was primarily related to a decrease in trust and investment management fees. Trust and investment management fee income is the most significant income component for Frost Wealth Advisors. Investment fees are the most significant component of trust and investment management fees, making up approximately 82%, 79% and 75% of total trust and investment management fees in 2016, 2015 and 2014, respectively. Investment and other custodial account fees are generally based on the market value of assets within a trust account. Volatility in the equity and bond markets impacts the market value of trust assets and the related investment fees. The decrease in trust and investment management fees during 2016 compared to 2015 was primarily the result of decreases in oil and gas fees, estate fees, securities lending income and custody fees. These decreases were partly offset by an increase in trust investment fees. The decrease in oil and gas fees during 2016 was partly due to lower energy prices and a decrease in production. The decrease in estate fees during 2016 was related to a decrease in the aggregate value of estates settled compared to 2015. The decrease in securities lending income during 2016 was due to the termination of our securities lending operations during the first quarter of 2015. The increase in trust investment fees during 2016 was due to higher average equity valuations on managed accounts and an increase in the number of accounts. See the analysis of trust and investment management fees included in the section captioned "Non-Interest Income" included elsewhere in this discussion. Non-interest income for 2015 decreased \$772 thousand, or 0.6%, compared to 2014. The decrease was primarily related to a decrease in trust and investment management fees. The decrease in trust and investment management fee income during 2015 was primarily the result of decreases in oil and gas fees and securities lending income mostly offset by an increase in trust investment fees. The decrease in oil and gas fees during 2015 was primarily due to lower prices and decreased production. Securities lending income decreased during 2015 as we discontinued our securities lending operations at the end of the first quarter of 2015. The increase in trust investment fees during 2015 was partly due to higher average equity valuations and an increase in the number of accounts. See the analysis of trust and investment management fees included in the section captioned "Non-Interest Income" included elsewhere in this discussion.

Non-interest expense for 2016 increased \$3.7 million, or 3.7%, compared to 2015. The increase was primarily due to increases in other non-interest expense (up \$1.9 million), employee benefits (up \$933 thousand), and salaries and wages (up \$797 thousand). The increase in other non-interest expense was primarily due to increases in sundry and other miscellaneous expense, expenses related to professional services and outside computer services, among other things, partly offset by a decrease in mutual fund sub-advisor expense, among other things. The increase in employee benefits expense was due, in part, to increases in expense related to our profit sharing plan, medical insurance expense and payroll taxes, among other things, partly offset by a decrease in expense related to our defined benefit retirement plans. The increase in salaries and wages was primarily related to an increase in the number of employees and normal annual merit and market increases partly offset by a decrease in incentive compensation.

Non-interest expense for 2015 increased \$2.1 million, or 2.2%, compared to 2014. The increase was primarily due to increases in salaries and wages (up \$2.1 million), and employee benefits (up \$547 thousand) partly offset by a decrease in other non-interest expense (down \$641 thousand). The increase in salaries and wages was primarily

related to normal annual merit and market increases and, to a lesser extent, an increase in incentive compensation. The increase in employee benefits was partly due to increases in expense related to our profit sharing, 401(k) and defined benefit retirement plans and payroll taxes, among other things. The decrease in other non-interest expense was related to decreases in various miscellaneous categories of expense partly offset by increased overhead cost allocations.

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Non-Banks

The Non-Banks operating segment had a net loss of \$4.5 million for 2016 compared to a net loss of \$2.7 million in 2015. The increase in net loss was primarily due to a \$1.8 million decrease in other non-interest income, a \$951 thousand increase in net-interest expense and a \$583 thousand increase in other non-interest expense partly offset by a \$1.5 million increase in income tax benefit. The decrease in non-interest income was primarily related to a decrease in mineral interest income. Mineral interest income is related to bonus, rental and shut-in payments and oil and gas royalties received from severed mineral interests on property owned by our wholly-owned non-banking subsidiary Main Plaza Corporation. The decrease in mineral interest income was partly related to lower energy prices and a decrease in production. The increase in net interest expense was primarily related to increases in the interest rates paid on our junior subordinated deferrable interest debentures and our subordinated notes due to increases in market rates. The increase in non-interest expense was primarily related to increases in employee benefits expense, other non-interest expense and salaries and wages.

The Non-Banks operating segment had a net loss of \$2.7 million for both 2015 and 2014. The net loss in 2015 was positively impacted by a \$2.7 million decrease in other non-interest expense mostly offset by a \$2.4 million decrease in other non-interest income and a \$294 thousand increase in net-interest expense. Other non-interest expense during 2014 included approximately \$3.0 million of expenses associated with the acquisition of WNB during the second quarter. This amount was primarily related to professional services. The decrease in other non-interest income during 2015 was primarily related to a decrease in mineral interest income due to lower energy prices and a decrease in production.

Income Taxes

We recognized income tax expense of \$37.2 million, for an effective tax rate of 10.9%, in 2016 compared to \$40.5 million, for an effective tax rate of 12.7%, in 2015 and \$58.0 million, for an effective rate of 17.3%, in 2014. The effective income tax rates differed from the U.S. statutory rate of 35% during the comparable periods primarily due to the effect of tax-exempt income from loans, securities and life insurance policies. The decline in the effective tax rate since 2014 was partly related to an increase in the relative proportion of tax-exempt income from higher volumes of tax-exempt municipal securities. The decrease in the effective tax rate during 2016 was also partly related to the adoption of a new accounting standard which impacted how the income tax effects associated with stock-based compensation are recognized (see Note 1 - Significant Accounting Policies in the accompanying consolidated financial statements).

Sources and Uses of Funds

The following table illustrates, during the years presented, the mix of our funding sources and the assets in which those funds are invested as a percentage of our average total assets for the period indicated. Average assets totaled \$28.8 billion in 2016 compared to \$28.1 billion in 2015 and \$25.8 billion in 2014.

	2016	2015	2014
Sources of Funds:			
Deposits:			
Non-interest-bearing	34.8 %	36.3 %	35.4 %
Interest-bearing	50.2	49.4	50.2
Federal funds purchased and repurchase agreements	2.7	2.3	2.2
Long-term debt and other borrowings	0.8	0.8	0.9
Other non-interest-bearing liabilities	0.9	0.9	0.8
Equity capital	10.6	10.3	10.5
Total	100.0%	100.0%	100.0%
Uses of Funds:			
Loans	40.1 %	40.2 %	40.0 %
Securities	41.8	41.4	36.4
Federal funds sold, resell agreements and interest-bearing deposits	10.8	10.9	16.3
Other non-interest-earning assets	7.3	7.5	7.3
Total	100.0%	100.0%	100.0%

Deposits continue to be our primary source of funding. Average deposits increased \$471.1 million, or 2.0%, in 2016 compared to 2015 and increased \$2.0 billion, or 9.0% in 2015 compared to 2014. Average deposits in 2014 were

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impacted by the acquisition of \$1.6 billion in deposits in connection with the acquisition of WNB during the second quarter of 2014. Non-interest-bearing deposits remain a significant source of funding, which has been a key factor in maintaining our relatively low cost of funds. Average non-interest-bearing deposits totaled 40.9% of total average deposits in 2016 compared to 42.3% in 2015, and 41.4% in 2014. The Dodd-Frank Act repealed the federal prohibitions on the payment of interest on demand deposits, thereby permitting depository institutions to pay interest on business transaction and other accounts beginning July 21, 2011. To date, we have not experienced any significant additional interest costs as a result of the repeal; however, we may begin to incur interest costs associated with certain demand deposits in the future as market conditions warrant, in which case, the relative proportion of non-interest-bearing deposits to total deposits would be expected to decrease.

We primarily invest funds in loans and securities. Loans continue to be a large component of our mix of invested assets. Average loans increased \$287.4 million, or 2.6%, in 2016 compared to 2015 and increased \$968.4 million, or 9.4% in 2015 compared to 2014. Average securities increased \$442.7 million, or 3.8%, in 2016 compared to 2015 and increased \$2.2 billion, or 24.0%, in 2015 compared to 2014. Average federal funds sold, resell agreements and interest-bearing deposits increased \$32.3 million, or 1.1%, in 2016 compared to 2015 and decreased \$1.1 billion, or 27.0%, in 2015 compared to 2014. We acquired cash and cash equivalents totaling \$879.7 million, loans totaling \$670.6 million and securities totaling \$154.2 million in connection with the acquisition of WNB during the second quarter of 2014.

Loans
Year-end loans, including leases net of unearned discounts, consisted of the following:

	2016	Percent of Tota		2015	2014	2013	2012
Commercial and industrial	\$4,344,000	36.3	%	\$4,120,522	\$4,055,225	\$3,766,635	\$3,723,775
Energy:							
Production	971,767	8.1		1,249,678	1,160,404	616,893	765,424
Service	221,213	1.8		272,934	319,618	236,766	242,448
Other	193,081	1.7		235,583	293,923	261,750	75,314
Total energy	1,386,061	11.6		1,758,195	1,773,945	1,115,409	1,083,186
Commercial real estate:							
Commercial mortgages	3,481,157	29.1		3,285,041	2,999,082	2,800,760	2,495,481
Construction	1,043,261	8.7		720,695	624,888	426,639	608,306
Land	311,030	2.6		286,991	291,907	239,937	216,008
Total commercial real estate	4,835,448	40.4		4,292,727	3,915,877	3,467,336	3,319,795
Consumer real estate:							
Home equity loans	345,130	2.9		340,528	342,725	329,853	310,675
Home equity lines of credit	264,862	2.2		233,525	220,128	195,132	186,522
Other	326,793	2.7		306,696	286,198	283,219	280,150
Total consumer real estate	936,785	7.8		880,749	849,051	808,204	777,347
Total real estate	5,772,233	48.2		5,173,476	4,764,928	4,275,540	4,097,142
Consumer and other	473,098	3.9		434,338	393,437	358,116	319,745
Total loans	\$11,975,392	100.0	%	\$11,486,531	\$10,987,535	\$9,515,700	\$9,223,848

Overview. Year-end total loans increased \$488.9 million, or 4.3%, during 2016 compared to 2015, increased \$499.0 million, or 4.5% during 2015 compared to 2014, increased \$1.5 billion, or 15.5% during 2014 compared to 2013 and increased \$291.9 million, or 3.2% during 2013 compared to 2012. We acquired \$670.6 million of loans in connection with the acquisition of WNB during the second quarter of 2014.

The majority of our loan portfolio is comprised of commercial and industrial loans, energy loans and real estate loans. Commercial and industrial loans made up 36.3% and 35.9% of total loans at December 31, 2016 and 2015 while energy loans made up 11.6% and 15.3% of total loans at December 31, 2016 and 2015 and real estate loans made up 48.2% and 45.0% of total loans at December 31, 2016 and 2015. Energy loans include commercial and industrial loans, leases and real estate loans to borrowers in the energy industry. Real estate loans include both commercial and

consumer balances.

Loan Origination/Risk Management. We have certain lending policies and procedures in place that are designed to maximize loan income within an acceptable level of risk. Management reviews and approves these policies and procedures on a regular basis. A reporting system supplements the review process by providing management with frequent reports related to loan production, loan quality, concentrations of credit, loan delinquencies and non-performing and potential problem loans. Diversification in the loan portfolio is a means of managing risk associated with fluctuations in economic conditions.

Commercial and industrial loans are underwritten after evaluating and understanding the borrower's ability to operate profitably and prudently expand its business. Underwriting standards are designed to promote relationship banking rather than transactional banking. Once it is determined that the borrower's management possesses sound ethics and solid business acumen, our management examines current and projected cash flows to determine the ability of the borrower to repay their obligations as agreed. Commercial and industrial loans are primarily made based on the identified cash flows of the borrower and secondarily on the underlying collateral provided by the borrower. The cash flows of borrowers, however, may not be as expected and the collateral securing these loans may fluctuate in value. Most commercial and industrial loans are secured by the assets being financed or other business assets such as accounts receivable or inventory and may incorporate a personal guarantee; however, some short-term loans may be made on an unsecured basis. In the case of loans secured by accounts receivable, the availability of funds for the repayment of these loans may be substantially dependent on the ability of the borrower to collect amounts due from its customers.

Our energy loan portfolio includes loans for production, energy services and other energy loans, which includes private clients, transportation and equipment providers, manufacturers, refiners and traders. The origination process for energy loans is similar to that of commercial and industrial loans. Because, however, of the average loan size, the significance of the portfolio and the specialized nature of the energy industry, our energy lending requires a highly prescriptive underwriting policy. Production loans are secured by proven, developed and producing reserves. Loan proceeds are used for the development and drilling of additional wells, the acquisition of additional production, and/or the acquisition of additional properties to be developed and drilled. Our customers in this sector are generally large, independent, private owner-producers or large corporate producers. These borrowers typically have large capital requirements for drilling and acquisitions, and as such, loans in this portfolio are generally greater than \$10 million. Production loans are collateralized by the oil and gas interests of the borrower. Collateral values are determined by the risk-adjusted and limited discounted future net revenue of the reserves. Collateral is calculated at least semi-annually using third party engineer-prepared reserve studies. These reserve studies are conducted using a discount factor and base case assumptions for the current and future value of oil and gas. To qualify as collateral, typically reserves must be proven, developed and producing. For our strongest borrowers, collateral may include up to 20% proven, non-producing reserves. Loan commitments are limited to 65% of estimated reserve value. Cash flows must be sufficient to amortize the loan commitment within 120% of the half-life of the underlying reserves. Loan commitments generally must also be 100% covered by the risk-adjusted and limited discounted future net revenue of the reserves when stressed at 75% of our base case price assumptions. In addition, the ratio of the borrower's debt to earnings before interest, taxes, depreciation and amortization ("EBITDA") should generally not exceed 350%. Oil and gas service, transportation, and equipment providers are economically aligned due to their reliance on drilling and active oil and gas development. Income for these borrowers is highly dependent on the level of drilling activity and rig utilization, both of which are driven by the current and future outlook for the price of oil and gas. We mitigate the credit risk in this sector through conservative concentration limits and guidelines on the profile of eligible borrowers. Guidelines require that the companies have extensive experience through several industry cycles, and that they be supported by financially competent and committed guarantors who provide a significant secondary source of repayment. Borrowers in this sector are typically privately-owned, middle-market companies with annual sales of less than \$100 million. The services provided by companies in this sector are highly diversified, and include down-hole testing and maintenance, providing and threading drilling pipe, hydraulic fracturing services or equipment, seismic testing and equipment and other direct or indirect providers to the oil and gas production sector. Our private client portfolio primarily consists of loans to wealthy individuals and their related oil and gas exploration and production entities, where the oil and gas producing reserves are not considered to be the primary source of

repayment. These borrowers and guarantors typically have significant sources of wealth including significant liquid

assets and/or cash flow from other investments which can fully repay the loans. The credit structures of these loans are generally similar to those of energy production loans, described above, with respect to the valuation of the reserves taken as collateral and the repayment structures.

We have a small portfolio of loans to refiners where our credit involvement with these customers is through purchases of shared national credit syndications. These borrowers refine crude oil into gasoline, diesel, jet fuel, asphalt and other

petrochemicals and are not dependent on drilling or development. All of the borrowers in this portfolio are very large public companies that are important employers in several of our major markets. These borrowers, for the most part, have been long-term customers and we have a strong relationship with these companies and their executive management. There is no new customer origination process for this segment, as growth is expected to only reflect additional needs of these existing relationships.

We also have a small portfolio of loans to energy trading companies that serve as intermediaries that buy and sell oil, gas, other petrochemicals, and ethanol. These companies are not dependent on drilling or development. As a general policy, we do not lend to energy traders; however, we have made an exception to this policy for certain customers based upon their underlying business models which minimize risk as commodities are bought only to fill existing orders (back-to-back trading). As such, the commodity price risk and sale risk are eliminated. There is no new customer origination process for this segment, as growth is expected to only reflect additional needs of these existing relationships.

Commercial real estate loans are subject to underwriting standards and processes similar to commercial and industrial loans, in addition to those of real estate loans. These loans are viewed primarily as cash flow loans and secondarily as loans secured by real estate. Commercial real estate lending typically involves higher loan principal amounts and the repayment of these loans is generally largely dependent on the successful operation of the property securing the loan or the business conducted on the property securing the loan. Commercial real estate loans may be more adversely affected by conditions in the real estate markets or in the general economy. The properties securing our commercial real estate portfolio are diverse in terms of type and geographic location within Texas. This diversity helps reduce our exposure to adverse economic events that affect any single market or industry. Management monitors and evaluates commercial real estate loans based on collateral, geography and risk grade criteria. As a general rule, we avoid financing single-purpose projects unless other underwriting factors are present to help mitigate risk. We also utilize third-party experts to provide insight and guidance about economic conditions and trends affecting market areas we serve. In addition, management tracks the level of owner-occupied commercial real estate loans versus non-owner occupied loans. At December 31, 2016, approximately 46% of the outstanding principal balance of our commercial real estate loans were secured by owner-occupied properties.

With respect to loans to developers and builders that are secured by non-owner occupied properties that we may originate from time to time, we generally require the borrower to have had an existing relationship with us and have a proven record of success. Construction loans are underwritten utilizing feasibility studies, independent appraisal reviews, sensitivity analysis of absorption and lease rates and financial analysis of the developers and property owners. Construction loans are generally based upon estimates of costs and value associated with the completed project. These estimates may be inaccurate. Construction loans often involve the disbursement of substantial funds with repayment substantially dependent on the success of the ultimate project. Sources of repayment for these types of loans may be pre-committed permanent loans from approved long-term lenders, sales of developed property or an interim loan commitment from us until permanent financing is obtained. 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, governmental regulation of real property, general economic conditions and the availability of long-term financing.

We originate consumer loans utilizing a computer-based credit scoring analysis to supplement the underwriting process. To monitor and manage consumer loan risk, policies and procedures are developed and modified, as needed, jointly by line and staff personnel. This activity, coupled with relatively small loan amounts that are spread across many individual borrowers, minimizes risk. Additionally, trend and outlook reports are reviewed by management on a regular basis. Underwriting standards for home equity loans are heavily influenced by statutory requirements, which include, but are not limited to, a maximum loan-to-value percentage of 80%, collection remedies, the number of such loans a borrower can have at one time and documentation requirements.

We maintain an independent loan review department that reviews and validates the credit risk program on a periodic basis. Results of these reviews are presented to management and the appropriate committees of our board of directors. The loan review process complements and reinforces the risk identification and assessment decisions made by lenders and credit personnel, as well as our policies and procedures.

Commercial and Industrial. Commercial and industrial loans increased \$223.5 million, or 5.4%, during 2016 compared to 2015 and increased \$65.3 million, or 1.6%, in 2015 compared to 2014. Our commercial and industrial loans are a diverse group of loans to small, medium and large businesses. The purpose of these loans varies from supporting seasonal working capital needs to term financing of equipment. While some short-term loans may be made on an unsecured basis, most are secured by the assets being financed with collateral margins that are consistent with

our loan policy guidelines. The commercial and industrial loan portfolio also includes the commercial lease and purchased shared national credits.

Energy. Energy loans include loans to entities and individuals that are engaged in various energy-related activities including (i) the development and production of oil or natural gas, (ii) providing oil and gas field servicing, (iii) providing energy-related transportation services (iv) providing equipment to support oil and gas drilling (v) refining petrochemicals, or (vi) trading oil, gas and related commodities. Energy loans decreased \$372.1 million, or 21.2%, during 2016 compared to 2015 and decreased \$15.8 million, or 0.9%, in 2015 compared to 2014. We acquired approximately \$319.1 million of energy loans in connection with the acquisition of WNB during 2014, which contributed to the our higher concentration of such loans. The average loan size, the significance of the portfolio and the specialized nature of the energy industry requires a highly prescriptive underwriting policy. Exceptions to this policy are rarely granted. Due to the large borrowing requirements of this customer base, the energy loan portfolio includes participations and purchased shared national credits.

Industry Concentrations. As of December 31, 2016 and 2015, other than energy loans, there were no concentrations of loans within any single industry in excess of 10% of total loans, as segregated by Standard Industrial Classification code ("SIC code"). The SIC code system is a federally designed standard industrial numbering system used by us to categorize loans by the borrower's type of business. The following table summarizes the industry concentrations of our loan portfolio, as segregated by SIC code. Industry concentrations are stated as a percentage of year-end total loans as of December 31, 2016 and 2015 are presented below:

	2016	2015
Industry concentrations:		
Energy	11.6 %	15.3 %
Public finance	5.1	5.2
Medical services	4.6	4.7
Manufacturing, other	3.7	3.9
General and specific trade contractors	3.6	3.6
Building materials and contractors	3.1	3.3
Automobile dealers	3.1	3.0
Services	2.6	2.6
Religion	2.5	2.4
Investor	2.2	2.0
Transportation	2.0	2.0
All other	55.9	52.0
Total loans	100.0%	100.0%

Large Credit Relationships. The market areas served by us include three of the top ten most populated cities in the United States. These market areas are also home to a significant number of Fortune 500 companies. As a result, we originate and maintain large credit relationships with numerous commercial customers in the ordinary course of business. We consider large credit relationships to be those with commitments equal to or in excess of \$10.0 million, excluding treasury management lines exposure, prior to any portion being sold. Large relationships also include loan participations purchased if the credit relationship with the agent is equal to or in excess of \$10.0 million. In addition to our normal policies and procedures related to the origination of large credits, our Central Credit Committee ("CCC") must approve all new credit facilities which are part of large credit relationships and renewals of such credit facilities that exceed \$20.0 million or are graded as "watch" (risk grade 9) or higher. The CCC meets regularly and reviews large credit relationship activity and discusses the current pipeline, among other things.

The following table provides additional information on our large credit relationships outstanding at year-end.

F						,
	2016			2015		
	Number of	Period-End	Balances	Number of	Period-End	Balances
	Relationships	Committed	Outstanding	Relationships	Committed	Outstanding
Committed amount:						
\$20.0 million and greater	208	\$8,491,785	\$4,658,742	199	\$7,657,347	\$4,362,431
\$10.0 million to \$19.9 million	174	2,373,209	1,482,969	178	2,467,249	1,543,741

The average commitment per large credit relationship in excess of \$20.0 million totaled \$40.8 million at December 31, 2016 and \$38.5 million at December 31, 2015. The average outstanding balance per large credit relationship with a commitment in excess of \$20.0 million totaled \$22.4 million at December 31, 2016 and \$21.9 million at December 31, 2015. The average commitment per large credit relationship between \$10.0 million and \$19.9 million totaled \$13.6 million at December 31, 2016 and \$13.9 million at December 31, 2015. The average outstanding balance per large credit relationship with a commitment between \$10 million and \$19.9 million totaled \$8.5 million at December 31, 2016 and \$8.7 million at December 31, 2015.

Purchased Shared National Credits ("SNCs"). Purchased SNCs are participations purchased from upstream financial organizations and tend to be larger in size than our originated portfolio. Our purchased SNC portfolio totaled \$772.2 million at December 31, 2016 decreasing \$59.3 million, or 7.1%, from \$831.4 million at December 31, 2015. At December 31, 2016, 53.3% of outstanding purchased SNCs were related to the energy industry and 12.3% of outstanding purchased SNCs were related to the construction industry. The remaining purchased SNCs were diversified throughout various other industries, with no other single industry exceeding 10% of the total purchased SNC portfolio. Additionally, almost all of the outstanding balance of purchased SNCs was included in the energy and commercial and industrial portfolios, with the remainder included in the real estate categories. SNC participations are originated in the normal course of business to meet the needs of our customers. As a matter of policy, we generally only participate in SNCs for companies headquartered in or which have significant operations within our market areas. In addition, we must have direct access to the company's management, an existing banking relationship or the expectation of broadening the relationship with other banking products and services within the following 12 to 24 months. SNCs are reviewed at least quarterly for credit quality and business development successes. The following table provides additional information about certain credits within our purchased SNCs portfolio as of year-end.

2016			2015		
Number of	Period-End	Balances	Number of	Period-End	Balances
Relationships	Committed	Outstanding	Relationships	Committed	Outstanding

Purchased shared national credits:

\$20.0 million and greater	41	\$1,456,331 \$522,137	50	\$1,681,281 \$668,803
\$10.0 million to \$19.9 million	28	416,422 233,633	18	260,407 153,340

Real Estate Loans. Real estate loans increased \$598.8 million, or 11.6%, during 2016 compared to 2015 and increased \$408.5 million, or 8.6%, in 2015 compared to 2014. Real estate loans include both commercial and consumer balances. Commercial real estate loans totaled \$4.8 billion, or 83.8% of total real estate loans, at December 31, 2016 and \$4.3 billion, or 83.0% of total real estate loans, at December 31, 2015. The majority of this portfolio consists of commercial real estate mortgages, which includes both permanent and intermediate term loans. Our primary focus for the commercial real estate portfolio has been growth in loans secured by owner-occupied properties. These loans are viewed primarily as cash flow loans and secondarily as loans secured by real estate. Consequently, these loans must undergo the analysis and underwriting process of a commercial and industrial loan, as well as that of a real estate loan. The following tables summarize our commercial real estate loan portfolio, including commercial real estate loans reported as a component of our energy loan portfolio segment, as segregated by (i) the type of property securing the credit and (ii) the geographic region in which the loans were originated. Property type concentrations are stated as a percentage of year-end total commercial real estate loans as of December 31, 2016 and 2015:

	2016	2015
Property type:		
Office building	18.2 %	17.8 %
Office/warehouse	16.5	15.6
Multifamily	7.9	7.0
Non-farm/non-residential	7.4	9.2
Retail	7.4	5.2
Medical offices and services	5.8	7.7
1-4 Family	5.5	5.7
Religious	5.0	5.7
All other	26.3	26.1

Total commercial real estate loans 100.0% 100.0%

	2016	2015
Geographic region:		
San Antonio	25.3 %	26.4 %
Houston	23.1	19.9
Fort Worth	18.1	19.3
Dallas	14.6	13.9
Austin	9.3	9.2
Rio Grande Valley	4.1	4.4
Permian Basin	3.2	4.2
Corpus Christi	2.3	2.7
Total commercial real estate loans	100.0%	100.0%

Consumer and Other Loans. The consumer and other loan portfolio at December 31, 2016, including all consumer real estate, increased \$94.8 million, or 7.2%, from December 31, 2015. As the following table illustrates, the consumer loan portfolio has two distinct segments, including consumer real estate and consumer and other.

	2016	2015
Consumer real estate:		
Home equity loans	\$345,130	\$340,528
Home equity lines of credit	264,862	233,525
Other	326,793	306,696
Total consumer real estate	936,785	880,749
Consumer and other	473,098	434,338
Total consumer loans	\$1,409,883	\$1,315,087

Consumer real estate loans at December 31, 2016 increased \$56.0 million, or 6.4%, from December 31, 2015. Combined, home equity loans and lines of credit made up 65.1% and 65.2% of the consumer real estate loan total at December 31, 2016 and 2015, respectively. We offer home equity loans up to 80% of the estimated value of the personal residence of the borrower, less the value of existing mortgages and home improvement loans. In general, we do not originate 1-4 family mortgage loans; however, from time to time, we may invest in such loans to meet the needs of our customers. The consumer and other loan portfolio primarily consists of automobile loans, unsecured revolving credit products, personal loans secured by cash and cash equivalents, and other similar types of credit facilities.

Foreign Loans. We make U.S. dollar-denominated loans and commitments to borrowers in Mexico. The outstanding balance of these loans and the unfunded amounts available under these commitments were not significant at December 31, 2016 or 2015.

Maturities and Sensitivities of Loans to Changes in Interest Rates. The following table presents the maturity distribution of our commercial and industrial loans, energy loans, real estate construction loans and commercial real estate loans, excluding leases, at December 31, 2016. The table also presents the portion of loans that have fixed interest rates or variable interest rates that fluctuate over the life of the loans in accordance with changes in an interest rate index such as the prime rate or LIBOR.

	Due in	After One,	After	
	One Year	but Within		Total
	or Less	Five Years	Five Years	
Commercial and industrial	\$1,808,910	\$1,608,964	\$660,929	\$4,078,803
Energy	881,923	414,492	40,809	1,337,224
Real estate construction	560,099	1,624,369	1,607,719	3,792,187
Commercial real estate	328,528	543,696	171,037	1,043,261
Total	\$3,579,460	\$4,191,521	\$2,480,494	\$10,251,475
Loans with fixed interest rates	\$1,037,092	\$1,213,405	\$1,072,724	\$3,323,221
Loans with floating interest rates	2,542,368	2,978,116	1,407,770	6,928,254
Total	\$3,579,460	\$4,191,521	\$2,480,494	\$10,251,475

We generally structure commercial loans with shorter-term maturities in order to match our funding sources and to enable us to effectively manage the loan portfolio by providing the flexibility to respond to liquidity needs, changes in interest rates and changes in underwriting standards and loan structures, among other things. Due to the shorter-term nature of such loans, from time to time and in the ordinary course of business, we will renew/extend maturing lines of credit or refinance existing loans at their maturity dates. Some loans may renew multiple times in a given year as a result of general customer practice and need. These renewals, extensions and refinancings are made in the ordinary course of business for customers that meet our normal level of credit standards. Such borrowers typically request renewals to support their on-going working capital needs to finance their operations. Such borrowers are not experiencing financial difficulties and generally could obtain similar financing from another financial institution. In connection with each renewal, extension or refinancing, we may require a principal reduction, adjust the rate of interest and/or modify the structure and other terms to reflect the current market pricing/structuring for such loans or to maintain competitiveness with other financial institutions. In such cases, we do not generally grant concessions, and, except for those reported in Note 4 - Loans, any such renewals, extensions or refinancings that occurred during the reported periods were not deemed to be troubled debt restructurings pursuant to applicable accounting guidance. Loans exceeding \$1.0 million undergo a complete underwriting process at each renewal.

Non-Performing Assets and Potential Problem Loans

Non-Performing Assets. Year-end non-performing assets and accruing past due loans were as follows:

	2016		2015		2014		2013		2012		
Non-accrual loans:											
Commercial and industrial	\$31,475		\$25,111		\$34,108		\$26,143		\$45,158		
Energy	57,571		21,180	21,180		636		590			
Commercial real estate	8,550		35,088		22,431		27,035		39,731		
Consumer real estate	2,130		1,862		2,212		2,207		2,773		
Consumer and other	425		226		538		745		932		
Total non-accrual loans	100,151		83,467		59,925		56,720		89,744		
Restructured loans			_		_		1,137				
Foreclosed assets:											
Real estate	2,440		2,255		5,251		11,916		15,152		
Other			_				_		350		
Total foreclosed assets	2,440		2,255		5,251		11,916		15,502		
Total non-performing assets	\$102,591		\$85,722		\$65,176		\$69,773		\$105,246		
Ratio of non-performing assets to:											
Total loans and foreclosed assets	0.86	%	0.75	%	0.59	%	0.73	%	1.14	%	
Total assets	0.34		0.30	0.30		0.23			0.46		
Accruing past due loans:											
30 to 89 days past due	\$55,456		\$59,480		\$42,881		\$31,297		\$35,969		
90 or more days past due	24,864		8,108	8,108		20,941		7,635		6,994	
Total accruing past due loans	\$80,320		\$67,588		\$63,822		\$38,932		\$42,963		
Ratio of accruing past due loans to total loans:											
30 to 89 days past due	0.46	%	0.52	%	0.39	%	0.33	%	0.39	%	
90 or more days past due	0.21		0.07		0.19		0.08		0.08		
Total accruing past due loans	0.67	%	0.59	%	0.58	%	0.41	%	0.47	%	
					_					_	

Non-performing assets include non-accrual loans, trouble debt restructurings and foreclosed assets. Non-performing assets at December 31, 2016 increased \$16.9 million compared to December 31, 2015 and increased \$20.5 million at December 31, 2015 compared to December 31, 2014. The level of non-performing assets during 2012 was reflective of prevailing weaker economic conditions.

Non-accrual commercial and industrial loans included one credit relationship in excess of \$5 million totaling \$9.8 million at December 31, 2016, one such credit relationship totaling \$15.0 million at December 31, 2015 and one such credit relationship totaling \$15.5 million at December 31, 2014. Non-accrual energy loans included four credit relationships in excess of \$5 million totaling \$52.1 million at December 31, 2016 and one such credit relationship

totaling \$12.5 million at December 31, 2015. We did not have any significant energy loans on non-accrual status during

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the reported periods prior to 2015. The increase in non-accrual energy loans during 2015 and 2016 is related to the decline in oil prices in recent years, as more fully discussed in the section captioned "Allowance for Loan Losses" below. Non-accrual real estate loans primarily consist of land development, 1-4 family residential construction credit relationships and loans secured by office buildings and religious facilities. There were no non-accrual commercial real estate loan credit relationships in excess of \$5 million at December 31, 2016 while there was one such credit relationship totaling \$22.6 million at December 31, 2015 and one such credit relationship totaling \$5.6 million at December 31, 2014. One credit relationship totaling \$5.6 million at December 31, 2014 and \$7.9 million at December 31, 2013 was included in both non-accrual commercial and industrial loans (\$2.7 million at December 31, 2014 and \$4.7 million at December 31, 2013) and non-accrual commercial real estate loans (\$2.9 million at December 31, 2014 and \$3.2 million at December 31, 2013).

Non-accrual commercial and industrial loans included one credit relationship in excess of \$5 million totaling \$6.3 million at December 31, 2013 and three such credit relationships totaling \$27.8 million at December 31, 2012. Non-accrual commercial real estate loans included one credit relationship in excess of \$5 million totaling \$7.3 million at December 31, 2013 and two such credit relationships totaling \$18.2 million at December 31, 2012. Approximately \$15.0 million of the non-accrual commercial and industrial loans and \$12.6 million of the non-accrual commercial real estate loans at December 31, 2012 pertained to the same customer.

Generally, loans are placed on non-accrual status if principal or interest payments become 90 days past due and/or management deems the collectibility of the principal and/or interest to be in question, as well as when required by regulatory requirements. Once interest accruals are discontinued, accrued but uncollected interest is charged to current year operations. Subsequent receipts on non-accrual loans are recorded as a reduction of principal, and interest income is recorded only after principal recovery is reasonably assured. Classification of a loan as non-accrual does not preclude the ultimate collection of loan principal or interest.

Foreclosed assets represent property acquired as the result of borrower defaults on loans. Foreclosed assets are recorded at estimated fair value, less estimated selling costs, at the time of foreclosure. Write-downs occurring at foreclosure are charged against the allowance for loan losses. Regulatory guidelines require us to reevaluate the fair value of foreclosed assets on at least an annual basis. Our policy is to comply with the regulatory guidelines. Write-downs are provided for subsequent declines in value and are included in other non-interest expense along with other expenses related to maintaining the properties. Write-downs of foreclosed assets totaled \$217 thousand, \$36 thousand and \$1.3 million during 2016, 2015 and 2014 respectively. There were no significant concentrations of any properties, to which the aforementioned write-downs relate, in any single geographic region.

Potential problem loans consist of loans that are performing in accordance with contractual terms but for which management has concerns about the ability of an obligor to continue to comply with repayment terms because of the obligor's potential operating or financial difficulties. Management monitors these loans closely and reviews their performance on a regular basis. At December 31, 2016 and 2015, we had \$62.7 million and \$110.3 million in loans of this type which are not included in any one of the non-accrual, restructured or 90 days past due loan categories. At December 31, 2016, potential problem loans consisted of seven credit relationships. Of the total outstanding balance at December 31, 2016, 80.3% related to five customers in the energy industry and 15.4% related to a customer in distribution. Weakness in these organizations' operating performance, financial condition and borrowing base deficits for certain energy credits, among other factors, have caused us to heighten the attention given to these credits. As such, all of the loans identified as potential problem loans at December 31, 2016 were graded as "watch" (risk grade 9) or "substandard - accrual" (risk grade 11). Potential problem loans impact the allocation of our allowance for loan losses as a result of our risk grade based allocation methodology. See Note 4 - Loans in the accompanying consolidated financial statements for details regarding our allowance allocation methodology.

Allowance For Loan Losses

The allowance for loan losses is a reserve established through a provision for loan losses charged to expense, which represents management's best estimate of inherent losses that have been incurred within the existing portfolio of loans. The allowance, in the judgment of management, is necessary to reserve for estimated loan losses and risks inherent in the loan portfolio. Our allowance for loan loss methodology includes allowance allocations calculated in accordance with ASC Topic 310, "Receivables" and allowance allocations calculated in accordance with ASC Topic 450,

"Contingencies." Accordingly, the methodology is based on historical loss experience by type of credit and internal risk grade, specific homogeneous risk pools and specific loss allocations, with adjustments for current events and conditions. Our process for determining the appropriate level of the allowance for loan losses is designed to account

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for credit deterioration as it occurs. The provision for loan losses reflects loan quality trends, including the levels of and trends related to non-accrual loans, past due loans, potential problem loans, classified and criticized loans and net charge-offs or recoveries, among other factors. The provision for loan losses also reflects the totality of actions taken on all loans for a particular period. In other words, the amount of the provision reflects not only the necessary increases in the allowance for loan losses related to newly identified criticized loans, but it also reflects actions taken related to other loans including, among other things, any necessary increases or decreases in required allowances for specific loans or loan pools. See Note 4 - Loans in the accompanying notes to consolidated financial statements included elsewhere in this report for further details regarding our methodology for estimating the appropriate level of the allowance for loan losses.

The table below provides an allocation of the year-end allowance for loan losses by loan type; however, allocation of a portion of the allowance to one category of loans does not preclude its availability to absorb losses in other categories. Certain general valuation allowances were not allocated to specific loan portfolio segments and were included in unallocated allowances in years prior to 2014. See Note 4 - Loans for details of amounts allocated to specific portfolio segments.

	2016		2015			2014			2013			2012			
		Percentage		ge	Percentag		ge .	Percentag		ge	Percentag		ge	Percentage	
	Allowance	eof Loa	ns	Allowanceof I		Loans Allowane		coef Loans Al		Allowancef Loans		Allowanceof Loans			
	for	in each for Category Lo		for	in each Category		for	in each		for	in each Category		for	in each Category	
	Loan			Loan			Loan	Catego	ory Loan				Loan		
	Losses	to Tota	ıl	Losses	to Tot	al	Losses	to Tot	al	Losses	to Total Los		Losses	to Total	
		Loans		Loans		Loans		Loans		Loan					
Commercial and industrial	\$52,915	36.3	%	\$42,993	35.9	%	\$44,273	36.9	%	\$46,700	39.6	%	\$46,585	40.4	%
Energy	60,653	11.6		54,696	15.3		14,919	16.1		6,090	11.7		7,579	11.7	
Commercial real estate	30,213	40.4		24,313	37.4		27,163	35.7		22,590	36.4		29,346	36.0	
Consumer real estate	4,238	7.8		4,659	7.6		5,178	7.7		5,230	8.5		5,252	8.4	
Consumer and other	5,026	3.9		9,198	3.8		8,009	3.6		5,010	3.8		3,507	3.5	
Unallocated				_	_					6,818	_		12,184		
Total	\$153,045	100.0	%	\$135,859	100.0	%	\$99,542	100.0	%	\$92,438	100.0	%	\$104,453	100.0	%

Total \$153,045 100.0 % \$135,859 100.0 % \$99,542 100.0 % \$92,438 100.0 % \$104,453 100.0 % Allocation of the Allowance for Loan Losses at December 31, 2016 vs. December 31, 2015

The reserve allocated to commercial and industrial loans at December 31, 2016 increased \$9.9 million compared to December 31, 2015. The increase was due to an increase in historical and specific valuation allowances partly offset by decreases in general valuation allowances and macroeconomic valuation allowances. Historical valuation allowances increased \$7.8 million from \$25.4 million at December 31, 2015 to \$33.3 million at December 31, 2016. The increase was primarily related to increases in the volume of classified loans graded as "substandard - accrual" (risk grade 11) and non-classified loans graded as "watch" (risk grade 9) and "special mention" (risk grade 10) combined with an increase in the historical loss allocation factor applied to non-classified commercial and industrial loans graded as "watch." Classified commercial and industrial loans (loans having a risk grade of 11, 12 or 13) totaled \$131.9 million at December 31, 2016 compared to \$74.6 million at December 31, 2015. The weighted-average risk grade of commercial and industrial loans was 6.35 at December 31, 2016 compared to 6.13 at December 31, 2015. Commercial and industrial loan net charge-offs totaled \$12.3 million during 2016 compared to \$6.5 million million during 2015. Specific valuation allowances increased \$3.1 million from \$2.4 million at December 31, 2015 to \$5.4 million at December 31, 2016. General valuation allowances for commercial and industrial loans decreased \$631 thousand from \$7.3 million at December 31, 2015 to \$6.7 million at December 31, 2016. The decrease was primarily related to an increase in the adjustment for recoveries (up \$343 thousand) and decreases in allocations for loans not reviewed by concurrence (down \$310 thousand), policy exceptions (down \$220 thousand), highly leveraged credit relationships

(down \$213 thousand) and large credit relationships (down \$168 thousand) partly offset by an increase in allocations for excessive industry concentrations (up \$623 thousand). The increase in allocations for excessive industry concentration was due to increased risk concentrations related to credits within the nursing/assisted living, chemicals and financial services industries offset by decreased risk concentrations within the food manufacturing and contractors industries and within our shared national credits. Macroeconomic valuation allowances for commercial and industrial loans decreased \$328 thousand from \$7.8

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million at December 31, 2015 to \$7.5 million at December 31, 2016. The decrease was primarily related to a decrease in the distressed industries allocation (down \$1.2 million) partly offset by an increase in the environmental risk adjustment (up \$856 thousand). The decrease in the distressed industries allocation was primarily related to improvements in the weighted-average risk grades of certain segments of the contractors industry relative to the weighted-average risk grade for all pass-grade loans within the overall loan portfolio segment. The increase in the environmental risk adjustment was primarily related to the aforementioned increase in the base historical valuation allowances to which the environmental risk adjustment factor is applied.

The reserve allocated to energy loans at December 31, 2016 increased \$6.0 million compared to December 31, 2015. As a result, reserves allocated to energy loans as a percentage of total energy loans totaled 4.38% at December 31, 2016 compared to 3.11% at December 31, 2015. This increase was primarily related to increases in historical valuation allowances and specific valuation allowances partly offset by decreases in macroeconomic valuation allowances and general valuation allowances. Historical valuation allowances increased \$13.4 million from \$21.2 million at December 31, 2015 to \$34.6 million at December 31, 2016. The increase in historical valuation allowances was partly due to increases in the volume of classified energy loans, particularly those graded as "substandard - accrual" (risk grade 11), and non-classified energy loans graded as "special mention" (risk grade 10). These increases were partly offset by the impact of decreases in the volume of non-classified energy loans graded as "pass" and "watch" and decreases in the historical loss allocation factor applied to non-classified energy loans graded as "pass" and "special mention" and classified energy loans graded as "substandard" (risk grades 11 and 12). Classified energy loans totaled \$302.0 million at December 31, 2016 compared to \$98.0 million at December 31, 2015. Non-classified energy loans graded as "watch" and "special mention" (risk grades 9 and 10) totaled \$229.4 million at December 31, 2016 compared to \$274.4 million at December 31, 2015, decreasing \$45.0 million while "pass" grade energy loans decreased \$531.1 million from \$1.4 billion at December 31, 2015 to \$854.7 million at December 31, 2016. The overall decrease in non-classified energy loans reflects the migration of energy loans into higher risk grade categories as well as an overall decrease in the size of our energy loan portfolio, particularly within the production and service sectors of the energy industry. The weighted-average risk grade of energy loans was 7.95 at December 31, 2016 compared to 6.89 at December 31, 2015. This upward migration in the weighted-average risk grade for energy loans was influenced by regulatory guidance related to energy loan classifications. Specific valuation allowances for energy loans increased \$1.8 million from \$2.0 million at December 31, 2015 to \$3.8 million at December 31, 2016. At such dates, the majority of the specific valuation allowances were related to the same credit relationship which had an outstanding balance of \$12.5 million at December 31, 2015 and \$7.2 million at December 31, 2016, with the decrease mostly resulting from a partial charge-off. Energy loan net charge-offs totaled \$18.6 million during 2016 compared to \$6.0 million during 2015. The charge-offs in 2016 were primarily related to three large credit relationships for which, at the time we recognized the charged-offs, had associated specific valuation allowances totaling \$27.5 million. Macroeconomic valuation allowances related to energy loans totaled \$18.5 million at December 31, 2016 compared to \$26.0 million at December 31, 2015. As further discussed below, during 2015, as a result of a sensitivity stress test, we recognized an additional \$22.0 million provision for loan losses to allocate additional reserves for the added inherent risk resulting from continued oil price volatility and the ongoing downturn in the energy industry. The price per barrel of crude oil was approximately \$37 at December 31, 2015, decreasing sharply to a low-point of approximately \$26 in February 2016 and rebounding to approximately \$54 at December 31, 2016. The decrease in the reserve allocated for general macroeconomic risk resulted as oil prices have rebounded and the level of volatility has decreased. General valuation allowances decreased \$1.8 million during 2016 compared to 2015 primarily due to a decrease in allocations for excessive industry concentrations (down \$1.1 million), due to decreased risk concentrations related to energy service, energy equipment manufacturing and energy production credits, and, to a lesser extent, decreases in allocations for large credit relationships (down \$236 thousand) and highly leveraged credit relationships (down \$180 thousand). The reserve allocated to commercial real estate loans at December 31, 2016 increased \$5.9 million compared to December 31, 2015. The increase was primarily related to an increase in macroeconomic valuation allowances and, to a lesser extent, increases in historical and general valuation allowances. Macroeconomic valuation allowances increased \$4.1 million from \$4.2 million at December 31, 2015 to \$8.2 million at December 31, 2016. The increase was primarily related to current economic trends impacting our Houston market area as on-going weakness in the

energy sector has impacted the market's commercial real estate sector resulting in decreased construction, more rent concessions and higher vacancy rates. Historical valuation allowances increased \$1.4 million primarily due to increases in the volume of non-classified commercial real estate loans and classified commercial real estate loans graded as "substandard - accrual" (risk grade 11), partly offset by decreases in the historical loss allocation factors for all grades of commercial real estate loans. Non-classified commercial real estate loans increased \$553.2 million from December 31, 2015 to December 31, 2016 primarily due to an increase in commercial real estate loans graded as "pass." Classified commercial

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real estate loans decreased \$10.5 million from \$86.8 million at December 31, 2015 to \$76.3 million at December 31, 2016 as a \$26.5 million decrease in commercial real estate loans classified as "substandard - non-accrual" (risk grade 12) was partly offset by a \$16.1 million increase in commercial real estate loans classified as "substandard - accrual" (risk grade 11). The weighted-average risk grade of commercial real estate loans was 6.96 at December 31, 2016 compared to 6.88 at December 31, 2015. General valuation allowances increased \$385 thousand during 2016 compared to 2015 primarily due to an increase in the allocation for highly leveraged credit relationships (up \$1.3 million), primarily due to an increase in the volume of such credit relationships, partly offset by decreases in allocations for loans not reviewed by concurrence (down \$578 thousand), policy exceptions (down \$177 thousand) and excessive concentrations (down \$152 thousand), among other things. There were no specific valuation allowances related to commercial real estate loans at December 31, 2016 or 2015.

The reserve allocated to consumer real estate loans at December 31, 2016 decreased \$421 thousand compared to December 31, 2015. This decrease was mostly due to a decrease in general valuation allowances allocated for loans not reviewed by concurrence (down \$475 thousand) and an increase in the reduction for recoveries (up \$71 thousand) partly offset by an increase in historical valuation allowances (up \$116 thousand).

The reserve allocated to consumer and other loans at December 31, 2016 decreased \$4.2 million compared to December 31, 2015. The decrease was primarily related to decreases in historical valuation allowances (down \$8.2 million) and macroeconomic valuation allowances (down \$2.7 million) partly offset by an increase in general valuation allowances (up \$6.8 million). The decrease in historical valuation allowances was primarily due to a decrease in the historical loss allocation factor applied to consumer and other loans, which was related to a change in the way we esti