ACCELERATING QUALITY GROWTH

Enterprise Financial Services Corp 2015 First Quarter Earnings Release

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TALENT · STRENGTH · PASSION

Forward-Looking Statement

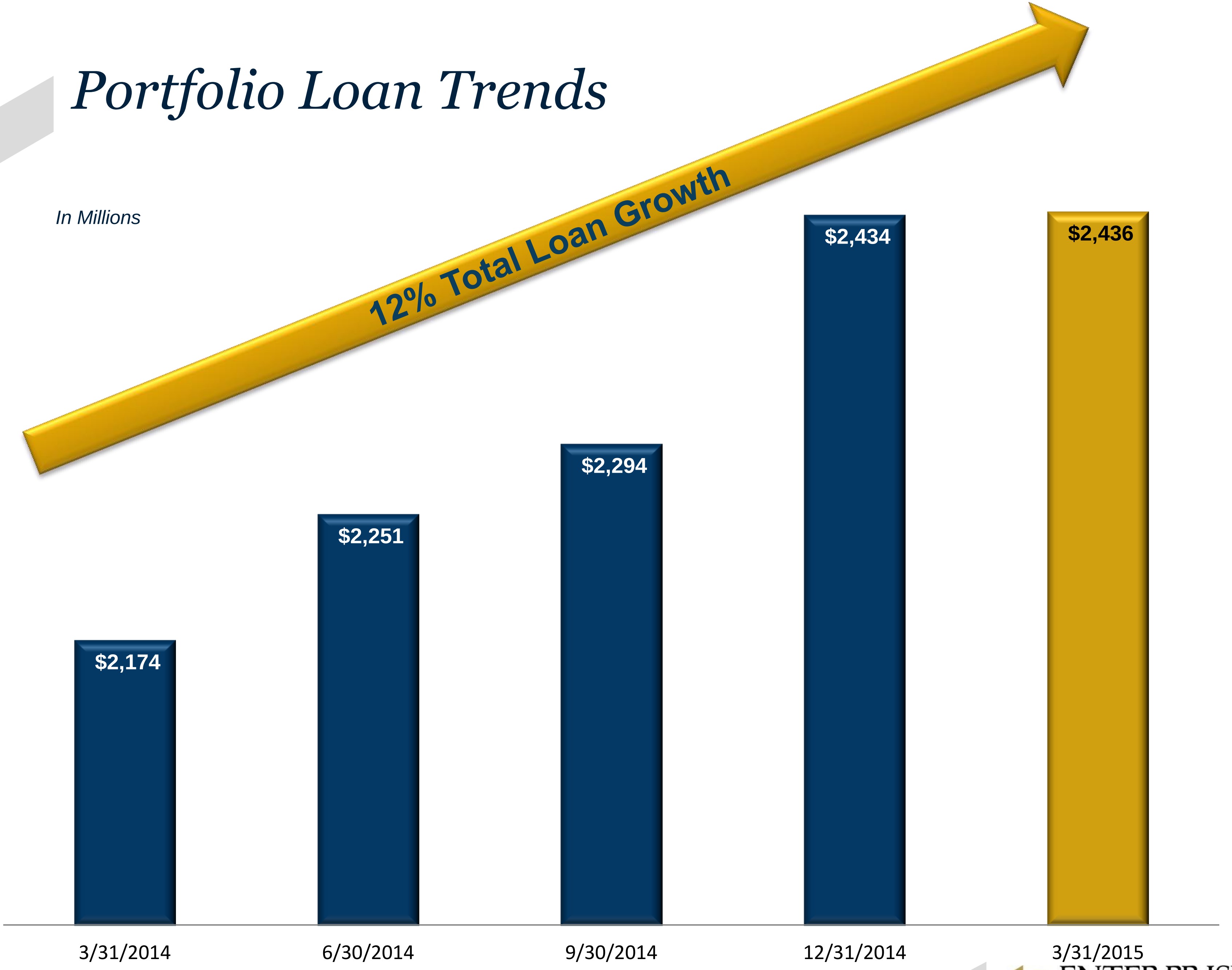
Some of the information in this report contains “forward-looking statements” within the meaning of and are intended to be covered by the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Forward-looking statements typically are identified with use of terms such as “may,” “might,” “will,” “should,” “expect,” “plan,” “anticipate,” “believe,” “estimate,” “predict,” “potential,” “could,” “continue” and the negative of these terms and similar words, although some forward-looking statements are expressed differently. Our ability to predict results or the actual effect of future plans or strategies is inherently uncertain. You should be aware that our actual results could differ materially from those contained in the forward-looking statements due to a number of factors, including, but not limited to: credit risk; changes in the appraised valuation of real estate securing impaired loans; outcomes of litigation and other contingencies; exposure to general and local economic conditions; risks associated with rapid increases or decreases in prevailing interest rates; consolidation within the banking industry; competition from banks and other financial institutions; our ability to attract and retain relationship officers and other key personnel; burdens imposed by federal and state regulation; changes in regulatory requirements; changes in accounting regulation or standards applicable to banks; and other risks discussed under the caption “Risk Factors” of our most recently filed Form 10-K and in Part II, 1A of our most recently filed Form 10-Q, all of which could cause the Company’s actual results to differ from those set forth in the forward-looking statements.

Readers are cautioned not to place undue reliance on our forward-looking statements, which reflect management’s analysis and expectations only as of the date of such statements. Forward-looking statements speak only as of the date they are made, and the Company does not intend, and undertakes no obligation, to publicly revise or update forward-looking statements after the date of this report, whether as a result of new information, future events or otherwise, except as required by federal securities law. You should understand that it is not possible to predict or identify all risk factors. Readers should carefully review all disclosures we file from time to time with the Securities and Exchange Commission which are available on our website at www.enterprisebank.com.

2015 Objectives: – Building on 2014

- Grow Core EPS
- Drive Quality Loan Growth
- Enhance Core Net Interest Income
- Defend Core Net Interest Margin
- Maintain High Credit Quality Metrics
- Improve Operating Leverage

Portfolio Loan Trends



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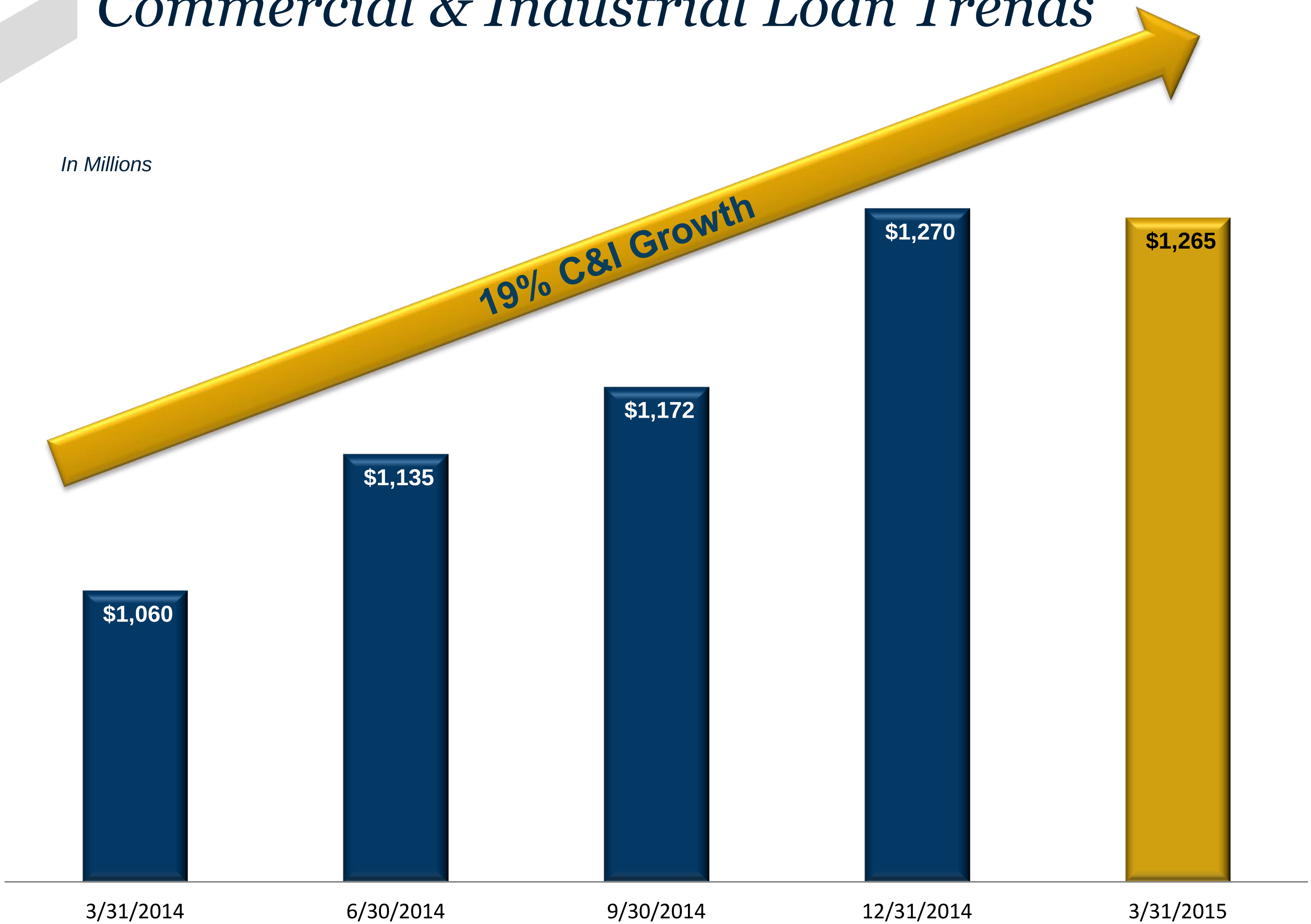
Commercial & Industrial Loan Trends



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Portfolio Loan Trends

In Millions

	3/31/15	12/31/14	Change
Enterprise Value Lending	$ 204	$ 202	$ 2
C&I General	710	717	(7)
Life Insurance Premium Financing	230	221	9
Tax Credit	122	130	(8)
Commercial/CRE	920	915	5
Residential	180	185	(5)
Other	70	64	6
Portfolio Loans	$ 2,436	$ 2,434	$ 2

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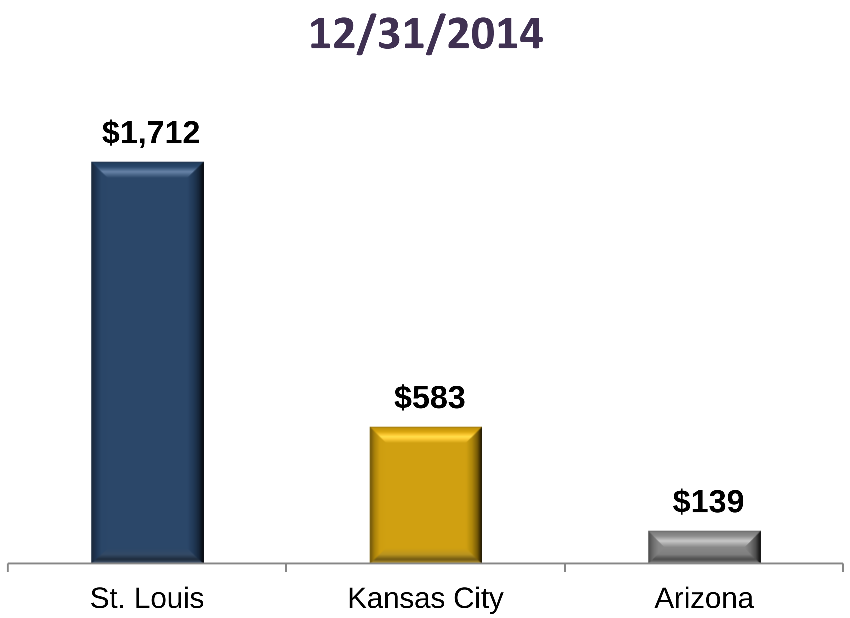
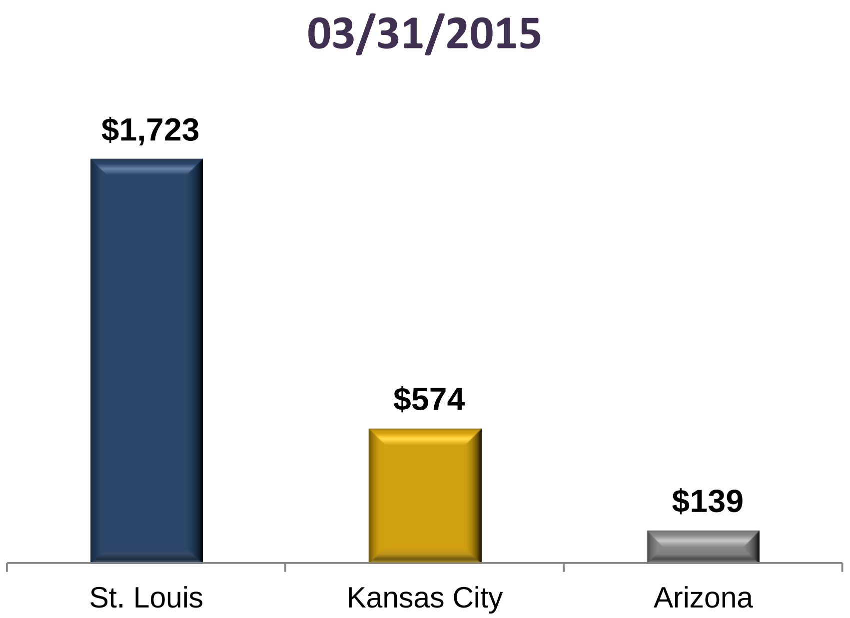
Portfolio Loans By Region

In Millions



In Millions



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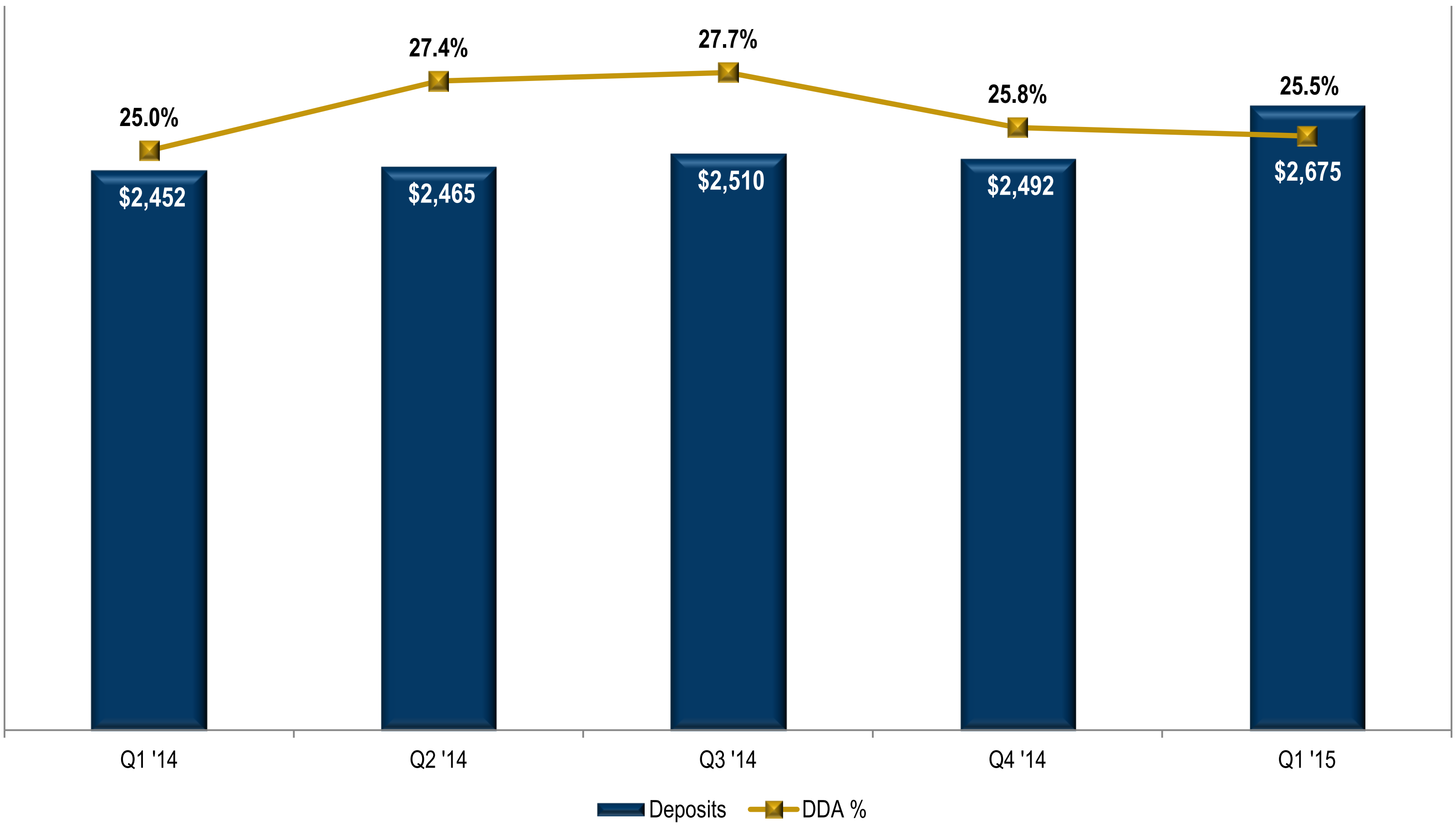
Deposit Trends



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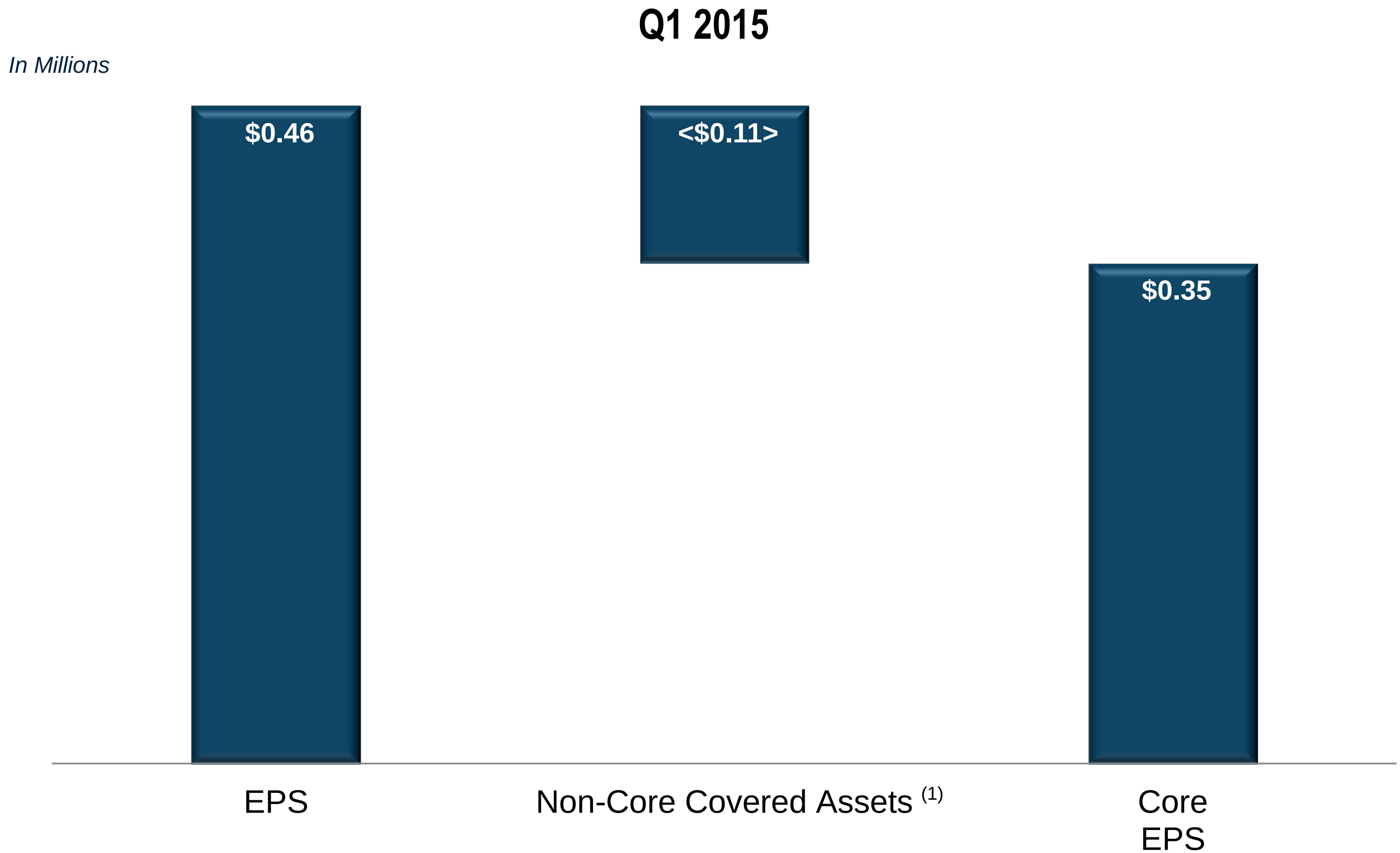
Earnings Per Share

Reported vs. Core EPS*



** A Non GAAP Measure, Refer to Appendix for Reconciliation*
(1) FDIC Loss Sharing Agreements

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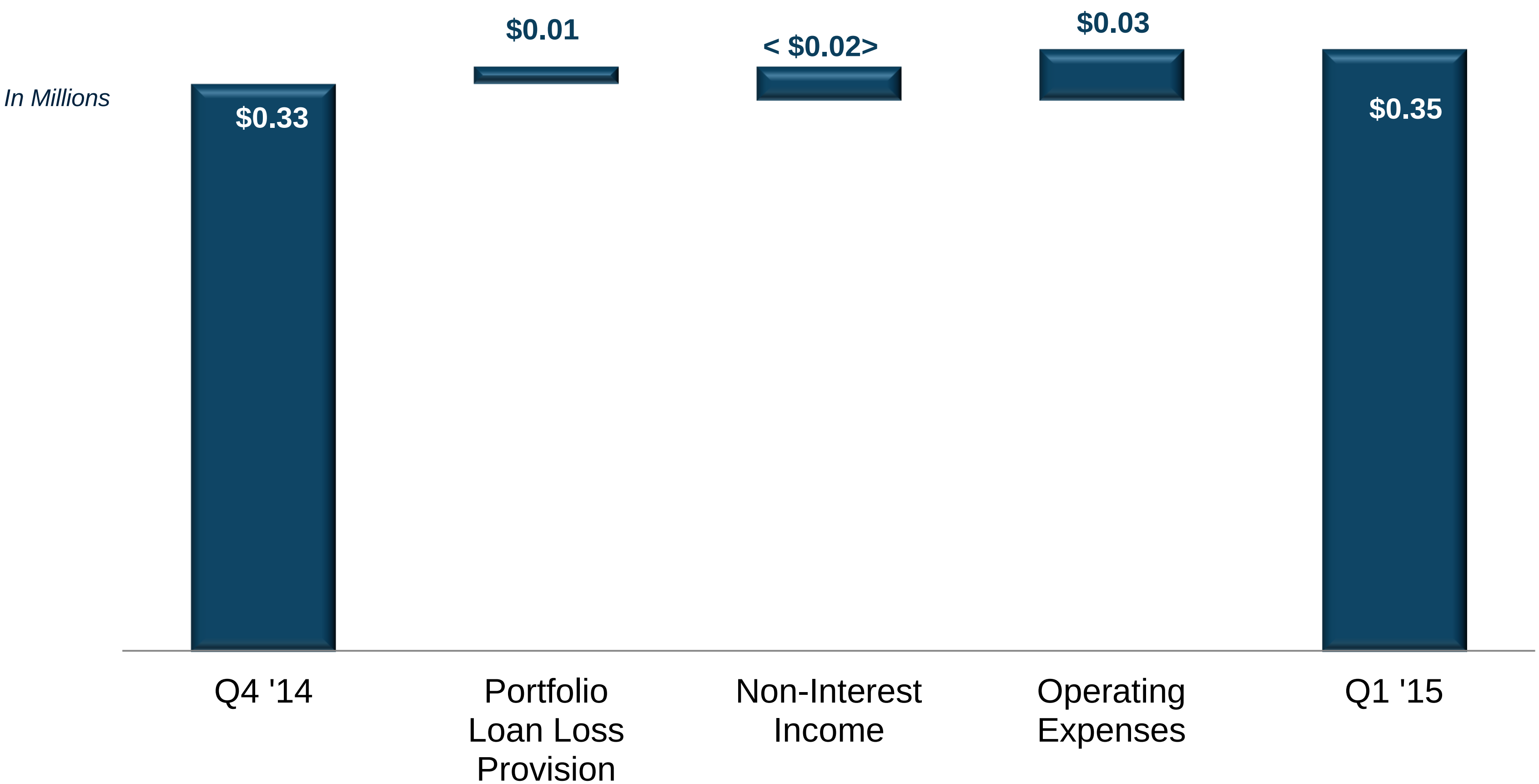
Earnings Per Share Trend

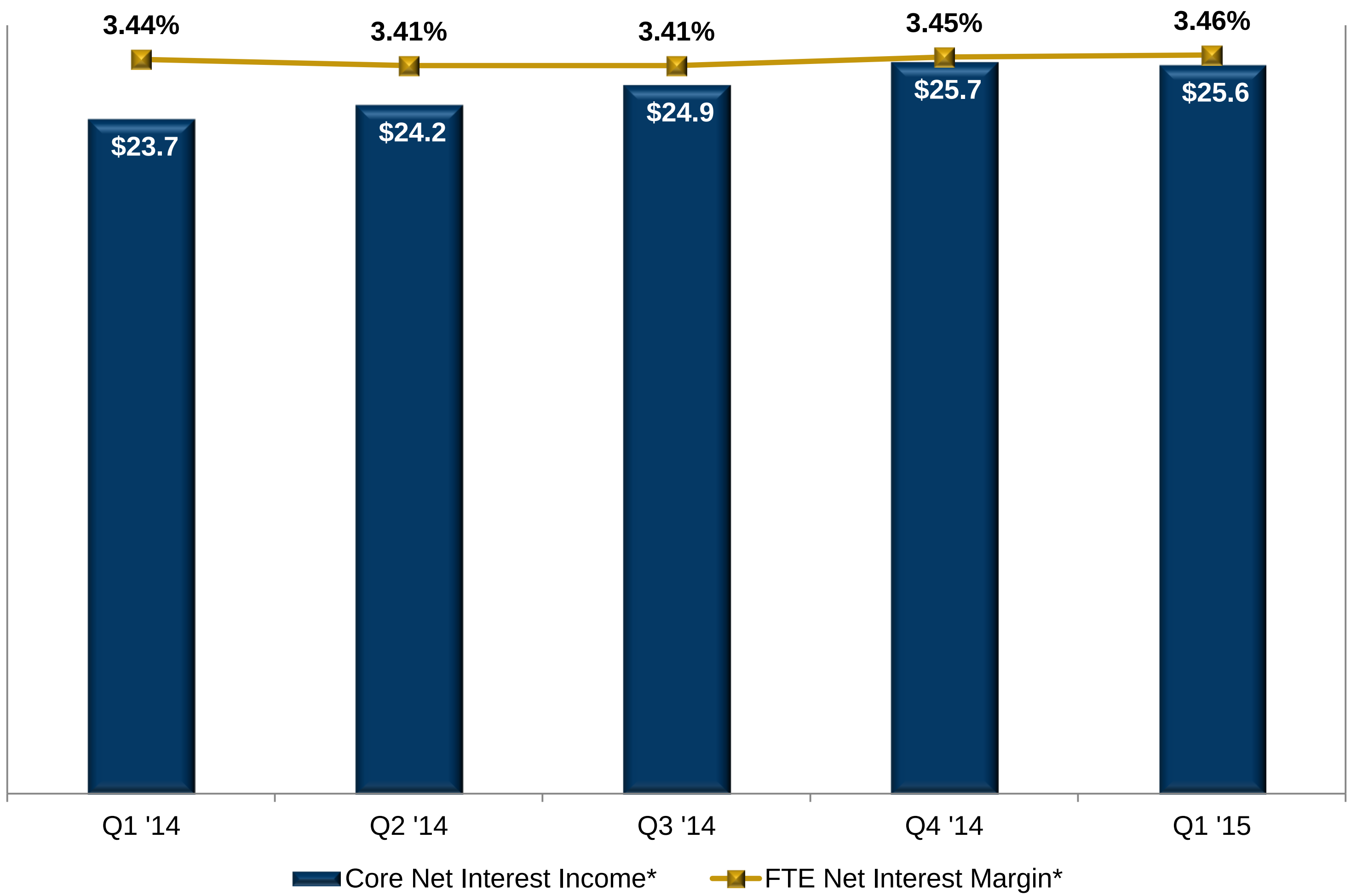
Changes in Core EPS*



* A Non GAAP Measure, Refer to Appendix for Reconciliation

Net Interest Income Driving Core Revenue Growth*

In Millions



*Note: * A Non-GAAP Measure, Refer to Appendix for Reconciliation*

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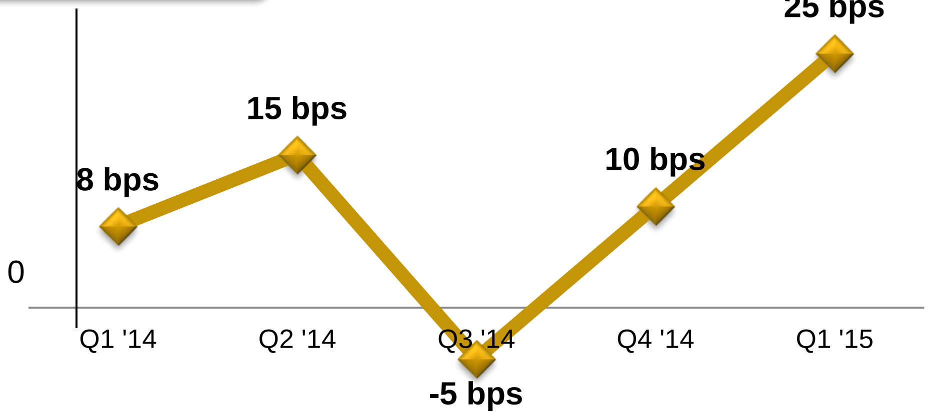
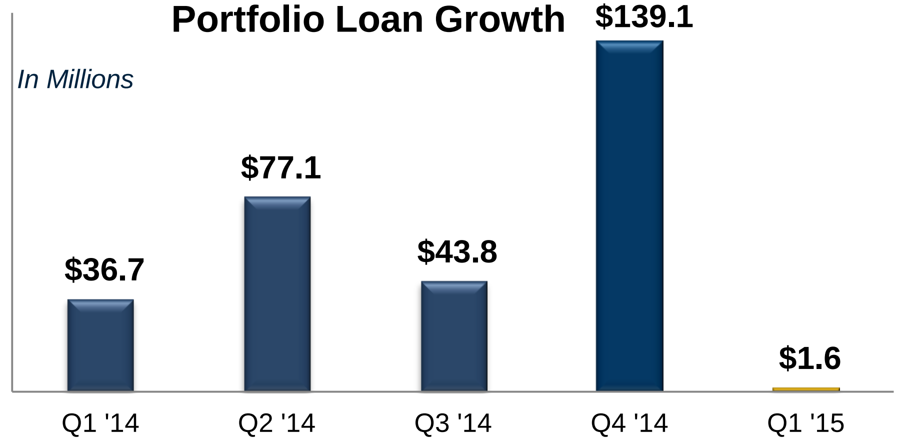
Credit Trends for Portfolio Loans

2014 NCO = 7 bps

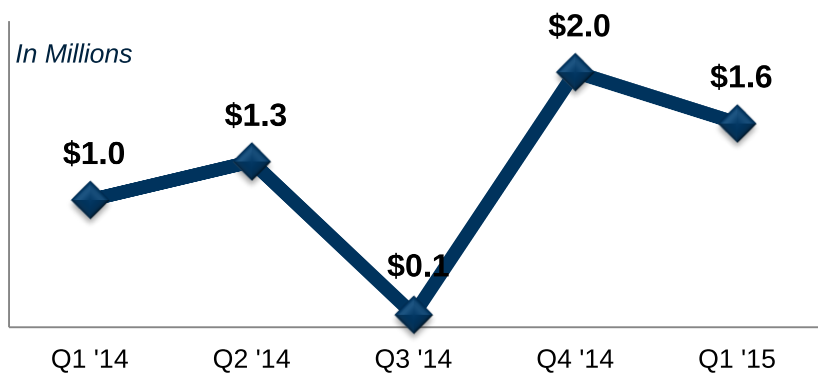
Net Charge-offs [1]



Portfolio Loan Growth



Provision for Portfolio Loans



Q1 2015	EFSC	Peer[2]
NPA's/Assets =	0.52%	0.91%
NPL's/Loans =	0.62%	1.03%
ALLL/NPL's =	200%	122%
ALLL/Loans =	1.24%	1.28%

(1) *Portfolio loans only, excludes PCI loans*

(2) *Peer data as of 12/31/2014 (source: SNL Financial)*

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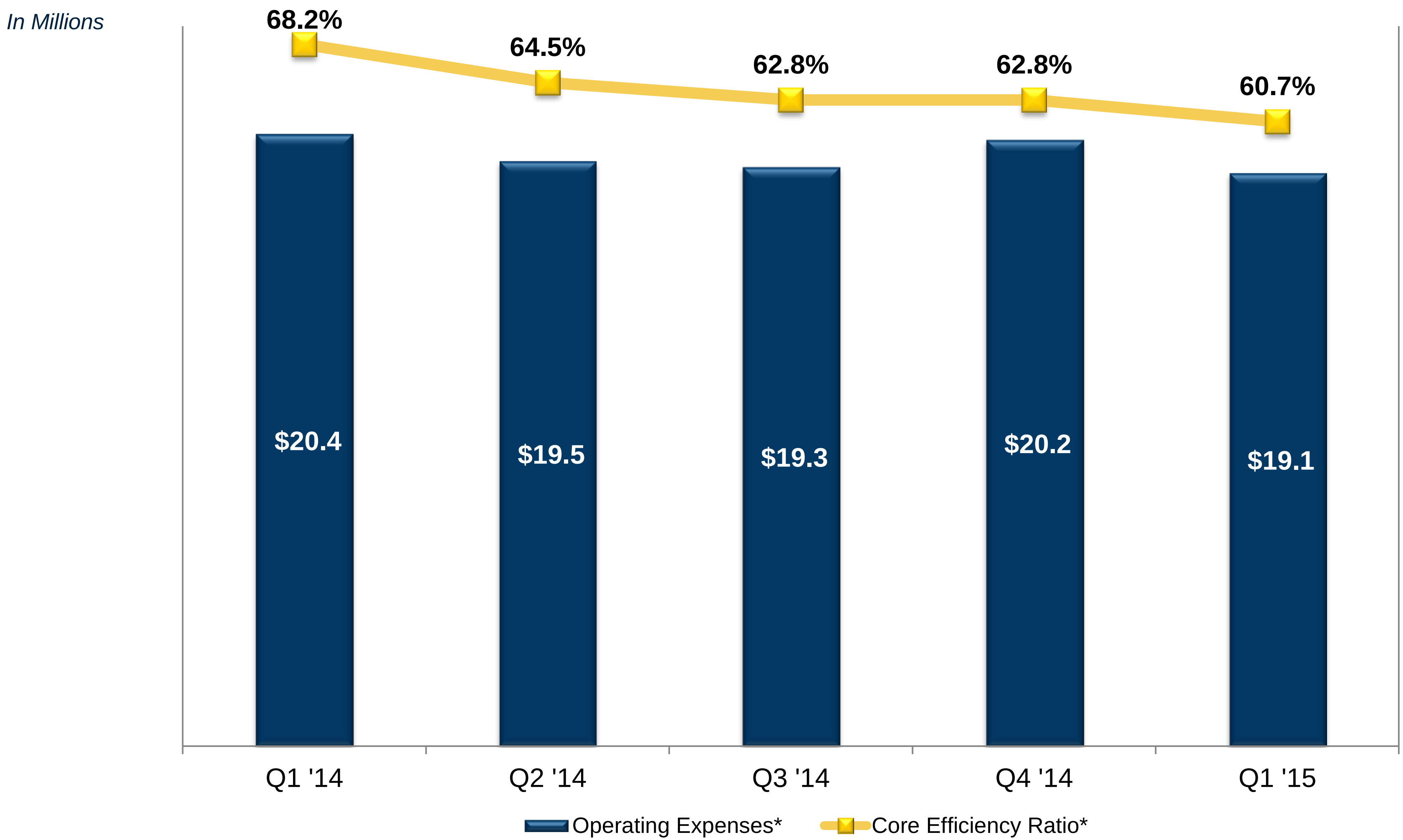
Managed Operating Expenses Improving Efficiency*



*Note: * A Non-GAAP Measure, Refer to Appendix for Reconciliation*

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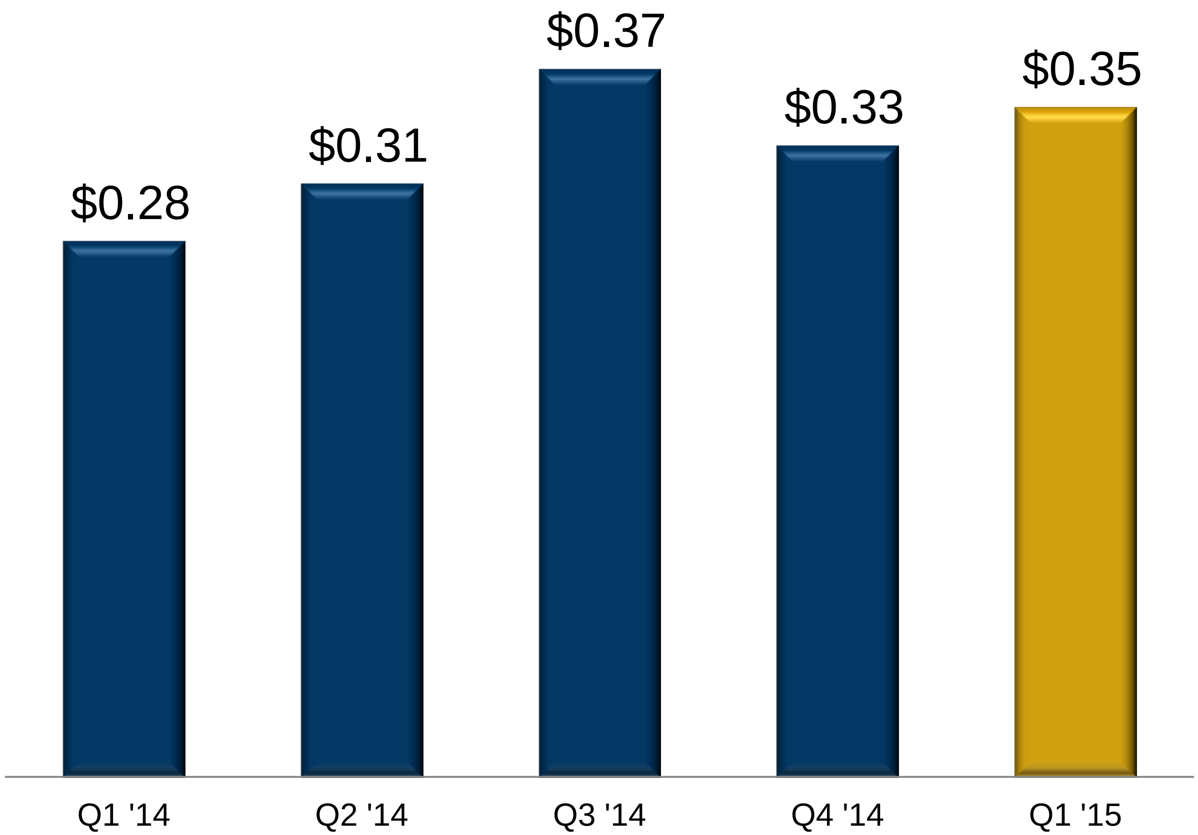
Positive Momentum in Core* Earnings Per Share



25% Core EPS Growth from Q1 2014 to Q1 2015

*Note: * A Non-GAAP Measure, Refer to Appendix for Reconciliation*

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Financial Priorities

	Trend From Prior Year
Continued Growth in Core EPS	↑ 25%
▪ Drive Net Interest Income Growth in Dollars with Favorable Loan Growth Trends	↑ 8%
▪ Defend Net Interest Margin	+ 2 bps
▪ Maintain High Quality Credit Profile	– 0.09% NPLs/Loans
Achieve Further Improvement in Operating Leverage	– 7%
Enhance Deposit Levels to Support Growth	+ 9%

Appendix

Use of Non-GAAP Financial Measures

The Company's accounting and reporting policies conform to generally accepted accounting principles in the United States ("GAAP") and the prevailing practices in the banking industry. However, the Company provides other financial measures, such as Core net income margin and other Core performance measures, in this presentation that are considered "non-GAAP financial measures." Generally, a non-GAAP financial measure is a numerical measure of a company's financial performance, financial position or cash flows that exclude (or include) amounts that are included in (or excluded from) the most directly comparable measure calculated and presented in accordance with GAAP.

The Company considers its Core performance measures presented in presentation as important measures of financial performance, even though they are non-GAAP measures, as they provide supplemental information by which to evaluate the impact of PCI loans and related income and expenses, the impact of nonrecurring items, and the Company's operating performance on an ongoing basis. Core performance measures include contractual interest on PCI loans but exclude incremental accretion on these loans. Core performance measures also exclude the Change in FDIC receivable, Gain or loss of other real estate covered under FDIC loss share agreements and expenses directly related to the PCI loans and other assets covered under FDIC loss share agreements. Core performance measures also exclude certain other income and expense items the Company believes to be not indicative of or useful to measure the Company's operating performance on an ongoing basis. The attached tables contain a reconciliation of these Core performance measures to the GAAP measures.

The Company believes these non-GAAP measures and ratios, when taken together with the corresponding GAAP measures and ratios, provide meaningful supplemental information regarding the Company's performance and capital strength. The Company's management uses, and believes that investors benefit from referring to, these non-GAAP measures and ratios in assessing the Company's operating results and related trends and when forecasting future periods. However, these non-GAAP measures and ratios should be considered in addition to, and not as a substitute for or preferable to, ratios prepared in accordance with GAAP. In the tables below, the Company has provided a reconciliation of, where applicable, the most comparable GAAP financial measures and ratios to the non-GAAP financial measures and ratios, or a reconciliation of the non-GAAP calculation of the financial measure for the periods indicated.

Peer group data consists of banks with total assets from $1-$10 billion with commercial loans greater than 20% and consumer loans less than 20%.

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Reconciliation of Non-GAAP Financial Measures

(in thousands)	For the Quarter ended Mar 31, 2015	Dec 31, 2014	Sep 30, 2014	Jun 30, 2014	Mar 31, 2014
CORE PERFORMANCE MEASURES					
Net interest income	$ 29,045	$ 30,816	$ 27,444	$ 28,742	$ 30,366
Less: Incremental accretion income	3,458	5,149	2,579	4,538	6,664
Core net interest income	25,587	25,667	24,865	24,204	23,702
Total noninterest income	3,583	4,852	4,452	3,405	3,922
Less: Change in FDIC loss share receivable	(2,264)	(1,781)	(2,374)	(2,742)	(2,410)
Less: Gain on sale of other real estate covered under FDIC loss share	(15)	195	(45)	164	131
Less: Gain on sale of investment securities	23	—	—	—	—
Less: Closing fee	—	—	945	—	—
Core noninterest income	5,839	6,438	5,926	5,983	6,201
Total core revenue	31,426	32,105	30,791	30,187	29,903
Provision for portfolio loans	1,580	1,968	66	1,348	1,027
Total noninterest expense	19,950	24,795	21,121	20,445	21,102
Less: FDIC clawback	412	141	1,028	143	(111)
Less: Other loss share expenses	470	544	746	834	829
Less: FHLB prepayment penalty	—	2,936	—	—	—
Less: Facilities disposal charge	—	1,004	—	—	—
Core noninterest expense	19,068	20,170	19,347	19,468	20,384
Core income before income tax expense	10,778	9,967	11,378	9,371	8,492
Core income tax expense	3,647	3,264	3,926	3,108	2,867
Core net income	$ 7,131	$ 6,703	$ 7,452	$ 6,263	$ 5,625
Core earnings per share	$0.35	$0.33	$0.37	$0.31	$0.28
Core efficiency ratio	60.67%	62.83%	62.83%	64.49%	68.17%
Core return on average assets	0.88%	0.82%	0.93%	0.80%	0.74%
Core return on average common equity	8.99%	8.43%	9.65%	8.44%	7.94%
NET INTEREST MARGIN TO CORE NET INTEREST MARGIN					
Net interest income (fully tax equivalent)	$ 29,467	$ 31,223	$ 27,843	$ 29,133	$ 30,803
Less: Incremental accretion income	3,458	5,149	2,579	4,538	6,664
Core net interest income (fully tax equivalent)	$ 26,009	$ 26,074	$ 25,264	$ 24,595	$ 24,139
Average earning assets	$ 3,047,815	$ 2,998,467	$ 2,943,070	$ 2,895,982	$ 2,848,514
Reported net interest margin (fully tax equivalent)	3.92%	4.13%	3.75%	4.04%	4.39%
Core net interest margin (fully tax equivalent)	3.46%	3.45%	3.41%	3.41%	3.44%

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