MOODY'S

STRESS TESTING INSIGHT IULY 2014

Authors

Danielle H. Ferry, PhD - Capital Markets Research 212.553.7781 danielle.ferry@moodys.com

Daniel Brown - Enterprise Risk Services 312.925.7617 daniel.brown@moodys.com

Anna Krayn - Enterprise Risk Services 212.553.3705 anna.krayn@moodys.com

Contact Us

Americas +1.212.553.1658 clientservices@moodys.com

Europe +44.20.7772.5454 clientservices.emea@moodys.com

Asia (Excluding Japan) +85 2 2916 1121 clientservices.asia@moodys.co

Japan +81 3 5408 4100 clientservices.japan@moodys.com

Comparing DFAST 2014 Estimates for CCAR Banks Under the FRB's Severely Adverse Scenario

Highlights

- The Federal Reserve Bank's (FRB) and banks' own modeled estimates of capital ratios, riskweighted assets, losses, revenues, and pre-tax net income (NI) under the CCAR/DFAST severely adverse scenario are overall directionally consistent, but differences in magnitude vary widely across banks and metrics.
- » In general, the results of the FRB's models are more conservative than those of banks' models.
- >> FRB and bank modeled estimates are fairly closely aligned with respect to capital ratios despite relatively wide differences in pre-tax net income projections.
- Back of the envelope calculations suggest that differences between FRB and bank modeled capital ratios can be attributed to differences in projected regulatory capital, risk-weighted assets, or both with no clear dominating factor.
- FRB estimates of post-stress loan losses are higher than bank estimates by a notable margin that is greatest for residential mortgages and other loans and smallest for consumer credit portfolios.
- Differences between FRB and bank modeled estimates are due to differences in the models themselves, the source data used to calibrate the models, and the data on which the analyses are drawn (as demonstrated by the FRB's treatment of missing data).
- The wide variation among bank modeled estimates and their overall alignment with FRB modeled estimates argues against targeting industry averages as benchmarks and for stress testing models that take account of banks' own experiences, business models, and portfolio characteristics.

Table of Contents

Introduction	4
2 Capital Ratios	4
B Risk-Weighted Assets	8
Losses, Revenue, and Pre-Tax Net Income	9
5 Loan Losses	10
5 Conclusion	15
Appendix A Detailed FRB and BHC DFAST Estimate Tables	15

1 Introduction

In March 2014, the Federal Reserve Board (FRB) published the results of its annual supervisory stress tests of large bank holding companies (BHCs) under the Dodd-Frank Act and Comprehensive Capital Analysis and Review (CCAR). The 30 BHCs participating in CCAR subsequently made public the results of company-run Dodd-Frank Act Stress Tests (DFAST) for the same 9-quarter period covering 4Q2013-4Q2015 and assuming the same economic scenarios.¹ This article provides detailed comparisons of the DFAST results under the FRB's severely adverse economic scenario as modeled by the FRB and by the 30 CCAR BHCs. Following the framework of FRB disclosures, we examine estimates of capital ratios, risk-weighted assets (RWA), losses, revenue, pre-tax net income (NI), and loan losses. While qualitative feedback has become more important in the CCAR supervisory review, quantitative results remain the best tool available to the public to assess banks' capital adequacy under stress.

2 Capital Ratios

Capital ratios are the final calculation after projecting risk-weighted assets in the denominator and post-stress regulatory capital in the numerator where the numerator is computed as the combination of numerous elements that are modeled individually. Despite the many sources of variation in both the numerator and denominator, FRB and BHC modeled capital ratios are closely aligned. This is shown graphically in Figures 1-10 and numerically in the first and second columns of Table 1. Rho represents the linear correlation between FRB and BHC modeled estimates. Factors are obtained by regressing BHC estimates on FRB estimates (without a constant) and represent the average relationship between FRB and BHC modeled projections. For instance, 2015Q4 Tier 1 common ratios estimated by BHCs are, on average, 1.1 times higher than those estimated by the FRB. BHC projections of post-stress capital ratios are typically higher than the FRBs, but by a relatively small factor, and that factor is smaller for period minimums than for end of period estimates.

Table 1 Projected Stressed (DFAST) Capital Ratios through 2015Q4, FRB versus BHCs (%)

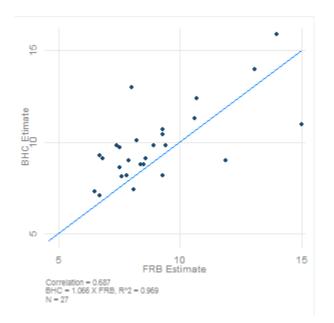
	RHO	FACTOR	Ν
Tier 1 common ratio			
Ending	0.82	1.11	30
Minimum	0.82	1.08	30
Common equity tier 1 capital ratio			
Ending	0.69	1.07	27
Minimum	0.57	1.02	26
Tier 1 risk-based capital ratio			
Ending	0.64	1.07	30
Minimum	0.68	1.05	30
Total risk-based capital ratio			
Ending	0.65	1.06	30
Minimum	0.73	1.04	30
Tier 1 leverage ratio			
Ending	0.73	1.12	30
Minimum	0.78	1.09	30

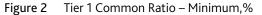
¹ The level of detail in company-run stress test results disclosed publicly varied by bank. As a result, FRB versus BHC comparisons are not available for all measures addressed in this article. In Tables 1 and 3-6, columns labeled "N" indicate the number of banks included in the analysis.

Figure 1

Tier 1 Common Ratio - Ending, %

Figure 3 Common Equity Tier 1 Capital Ratio – Ending, %





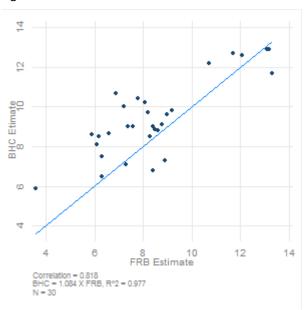
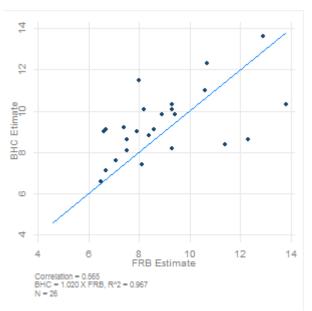


Figure 4 Common Equity Tier 1 Capital Ratio – Minimum, %



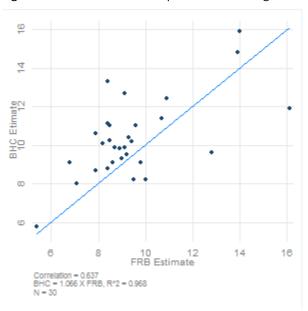


Figure 5 Tier 1 Risk-Based Capital Ratio – Ending,%

Figure 7 Total Risk-Based Capital Ratio – Ending, %

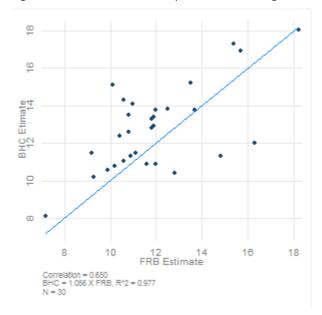


Figure 6 Tier 1 Risk-Based Capital Ratio – Minimum,%

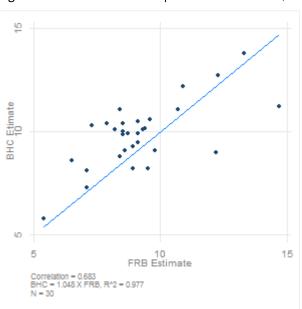
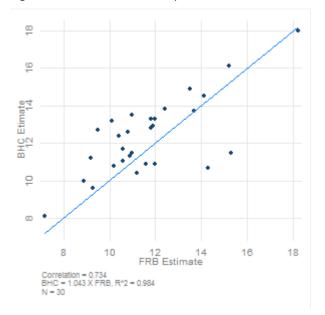


Figure 8 Total Risk-Based Capital Ratio – Minimum, %



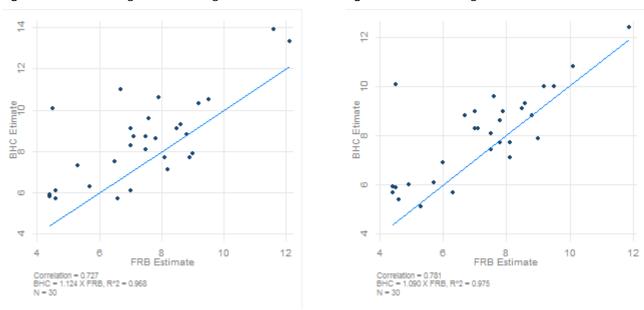
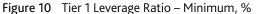


Figure 9 Tier 1 Leverage Ratio – Ending, %



It is possible to use back of the envelope calculations to gauge, generally, whether differences between FRB and BHC projections of capital ratios are due to differences in the numerator or denominator. This is demonstrated in Table 2 using end-of-period Tier 1 common ratios as an example. We first approximated FRB and BHC projections of stressed regulatory capital by multiplying post-stress capital ratios and RWA for 2015Q4.² Columns A and B show the published Tier 1 common ratios estimated by the FRB and each BHC, and column E shows the difference between these projections. Column C lists capital ratios if they had been calculated as the ratio of regulatory capital estimated by the FRB to RWA estimated by the BHCs. The differences between these capital ratios and the FRBs are shown in column F. Similarly, column D lists capital ratios computed from BHC regulatory capital and FRB risk-weighted assets, and the difference between these and the FRB's published capital ratios are shown in column G.

It is easiest to interpret these results by looking at a few examples. The FRB's projected capital ratio for American Express of 14.0% is 2.2 percentage points lower than the BHC's own estimate of 16.2%. Replacing the BHC's regulatory capital projection with the FRB's results in a capital ratio of 16.0 (column C) – it is virtually unchanged. However, replacing the BHC's RWA projection with the FRB's results in a capital ratio of 14.1 (column D) – nearly identical to the FRB's published ratio. In the case of American Express, nearly all of the difference between the FRB's and BHC's Tier 1 common ratio projections is due to differences in the denominator, or differences in RWA projections. Capital One is an example of the opposite – the difference between the FRB's and BHC's Tier 1 common ratio projections for regulatory capital. For others such as Citigroup, the difference can be more evenly attributed to differences in both the numerator and denominator. Overall, there is no clear pattern. That is, differences between FRB and BHC capital ratio projections are not overwhelmingly due to modeled differences in the numerator or denominator.

² Based on the current general approach.

	Α	В	С	D	E	F	G
внс	CAP[FRB]/RWA[FRB]	CAP[BHC]/RWA[BHC]	CAP[FRB]/RWA[BHC]	CAP[BHC]/RWA[FRB]	A-B	A-C	A-D
Ally Financial	6.3	8.7	8.7	6.3	-2.4	-2.4	0.0
American Express	14.0	16.2	16.0	14.1	-2.2	-2.0	-0.1
Bank of America	6.0	9.1	7.0	7.9	-3.1	-1.0	-1.9
BNY Mellon	16.1	14.6	16.4	14.4	1.5	-0.3	1.7
BB&T	8.4	6.8	NA	NA	1.6	NA	NA
BBVA	8.5	8.9	8.8	8.6	-0.4	-0.3	-0.1
BMO Financial	7.6	9.0	9.2	7.5	-1.4	-1.6	0.1
Capital One	7.8	12.3	8.8	10.9	-4.5	-1.0	-3.1
Citigroup	7.2	10.4	8.3	9.0	-3.2	-1.1	-1.8
Comerica	8.6	8.8	NA	NA	-0.2	NA	NA
Discover Financial	13.7	13.9	13.8	13.8	-0.2	-0.1	-0.1
Fifth Third	8.4	9.0	9.0	8.4	-0.6	-0.6	0.0
Goldman Sachs	9.2	13.7	11.0	11.5	-4.5	-1.8	-2.3
HSBC	6.6	8.7	NA	NA	-2.1	NA	NA
Huntington	7.4	9.3	NA	NA	-1.9	NA	NA
JPMorgan Chase	6.7	7.6	7.3	7.0	-0.9	-0.6	-0.3
KeyCorp	9.3	10.2	10.9	8.7	-0.9	-1.6	0.6
M&T	6.2	8.8	6.5	8.3	-2.6	-0.3	-2.1
Morgan Stanley	7.6	9.1	NA	NA	-1.5	NA	NA
Northern Trust	11.7	13.9	NA	NA	-2.2	NA	NA
PNC Financial	9.0	9.6	9.4	9.2	-0.6	-0.4	-0.2
RBS Citizens	10.7	12.3	11.4	11.5	-1.6	-0.7	-0.8
Regions Financial	9.0	7.3	9.9	6.7	1.7	-0.9	2.3
Santander	7.3	7.1	NA	NA	0.2	NA	NA
State Street	14.7	14.1	NA	NA	0.6	NA	NA
SunTrust	9.0	9.1	9.7	8.5	-0.1	-0.7	0.5
U.S. Bancorp	8.3	8.5	8.7	8.1	-0.2	-0.4	0.2
UnionBanCal	8.1	10.2	NA	NA	-2.1	NA	NA
Wells Fargo	8.2	11.0	9.2	9.8	-2.8	-1.0	-1.6
Zions	3.6	5.9	NA	NA	-2.3	NA	NA

Table 2 Alternative 2015Q4 Tier 1 Common Ratios (%) and Differentials

3 Risk-Weighted Assets

Table 3 and Figures 11-12 compare FRB and BHC projections of RWA for 2015Q4. Among those banks that report their RWA projections, BHCs typically estimate lower risk-weighted assets that are equal to 0.89 times the FRB's when using the current general approach and 0.94 times the FRB's when using the Basel III standardized approach. They are generally well-aligned, but to a slightly lower degree than capital ratio projections.

Table 3 Projected 2015Q4 Risk-Weighted Assets (\$billions)³

	RHO	FACTOR	Ν
Current general approach	1.00	0.89	20
Basel III standardized approach	1.00	0.94	20

³ The definitions of regulatory capital and calculation of RWAs used in DFAST/CCAR 2014 varied over the planning horizon in accordance with the FRB's phase-in schedule for the revised capital framework (Basel III). For DFAST/CCAR 2014, RWAs for all capital ratios except the tier 1 common ratio were calculated using the general risk-based capital approach (Basel I) for the first five quarters of the planning horizon and the standardized approach (Basel III) for the remainder of the period.

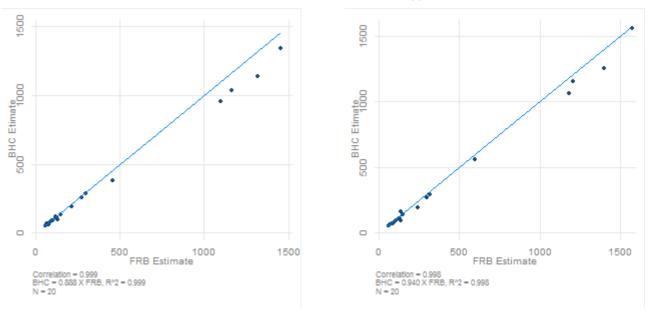
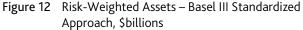


Figure 11 Risk-Weighted Assets – Current General Approach, Sbillions



4 Losses, Revenue, and Pre-Tax Net Income

In the analytical framework of DFAST and CCAR, a primary input to the change in regulatory capital is pre-tax net income (NI), which is itself a function of revenue, loan provisions, and other losses/gains. The FRB and BHCs estimate each of these elements individually, introducing a large number of sources of variation in the comparisons of the numerators to post-stress capital ratios. As shown in Table 4 and Figures 13-16, banks in general estimate lower pre-provision net revenue (PPNR) and lower pre-tax NI than does the FRB. These differences are somewhat larger than they are for stressed capital ratios and RWA projections – particularly differences in pre-tax NI estimates. BHC estimates of PPNR are, on average, 0.91 times the FRB's while BHC estimates of pre-tax NI are 0.67 times the FRB's, a much wider margin. The differential widens for pre-tax NI due in large part to higher FRB projections for loan provisions.

One factor behind the (generally) lower PPNR, pre-tax NI, and provisions estimates of the BHCs relative to the FRB's may be the FRB's more conservative treatment of loan origination growth during stressed periods. Differences in assumptions regarding loan volume have direct bearing on net interest margin as well as provisions and consequently impact pre-tax NI and PPNR.

Table 4 Projected Losses, Revenue, and Pre-Tax Net Income through 2015Q4 (\$billions, unless otherwise I	Table 4	Proiected Losses. Revenu	e. and Pre-Tax Net Income through 2	2015O4 (\$billions, unless otherwise note	d)
--	---------	--------------------------	-------------------------------------	---	----

	RHO	FACTOR	Ν
PPNR	0.96	0.91	30
PPNR (% of avg. assets)	0.96	0.86	27
Other revenue	0.00	0.00	30
Less			
Provisions	0.99	0.79	30
Net charge-offs	0.98	0.62	30
Chg. ALLL	0.76	2.16	30
Realized losses/gains on securities (AFS/HTM)	0.87	1.24	30
Trading and counterparty losses	1.00	0.90	30
Other losses/gains	0.76	0.64	30
Equals			
Pre-tax NI	0.93	0.67	30
Pre-tax NI (% of avg. assets)	0.77	0.76	27

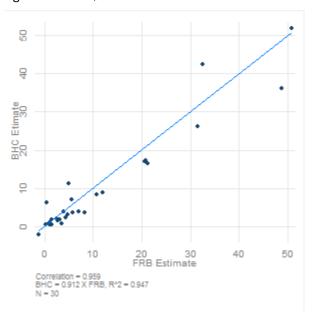


Figure 13 PPNR, \$billions

Figure 15 Pre-tax NI, \$billions

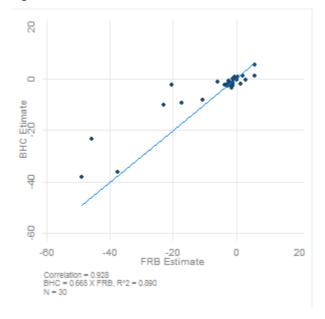


Figure 14 PPNR, % of Average Assets

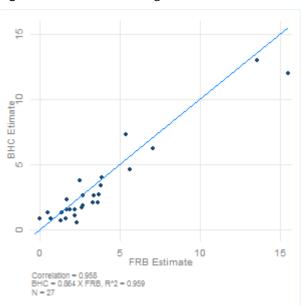
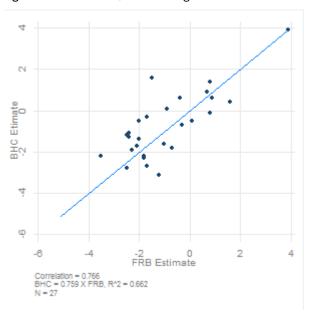


Figure 16 Pre-Tax NI, % of Average Assets



5 Loan Losses

Figures 17-32 compare the FRB's and each BHC's projected loan losses – in \$billion and as a percentage of average loan balances – overall and by asset class. Only in two cases – Morgan Stanley and Santander – are total BHC projections for loan losses (in \$bil.) higher than the FRB's. Overall, BHC estimates for total loan losses (in \$bil.) are equal to 0.62 times the FRB's (Table 5). The margin is greatest for portfolios of first lien mortgage, commercial real estate, and other loans. The relative conservatism of FRB estimates is only marginally reduced when comparing projected portfolio loss rates (Table 6).

Differences between the FRB and each BHCs projections are to be expected given each uses distinct models calibrated to different source data. Likely adding to the discrepancies and, in particular, the relative conservatism of FRB estimates are differences in the

data on which the analyses are drawn. For example, loans with missing or insufficient data provided by the BHCs to the FRB are treated by the regulator as if they were very high risk credit exposures.

Table 5 Projected Loan Losses by Type of Loan for 2013Q4-2015Q4 (\$bilions)

	RHO	FACTOR	Ν
Total	0.98	0.62	30
First lien mortgages, domestic	0.94	0.36	30
Junior liens and HELOCs, domestic	0.99	0.52	30
Commercial and industrial	0.95	0.61	30
Commercial real estate, domestic	0.90	0.47	30
Credit cards	0.99	0.88	30
Other consumer	0.94	0.85	30
Other loans	0.92	0.35	30

Table 6Projected Loan Losses by Type of Loan for 2013Q4-2015Q4 (%)⁴

IN
29
30
30
30
30
30
30
30

Figure 17 Total Loan Losses, \$billions

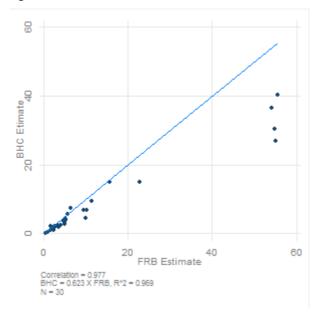
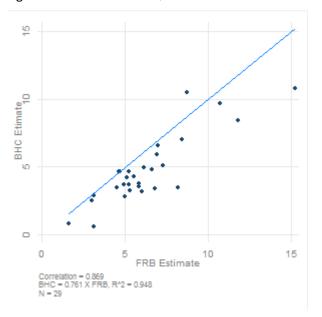


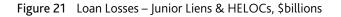
Figure 18 Total Loan Losses, %

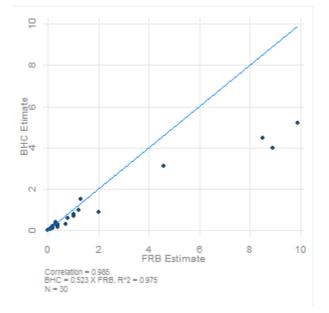


⁴ Correlations of projected loan loss rates are reduced for junior liens and HELOCs, C&I, commercial real estate, and other loans by banks with zero or nearzero BHC modeled loss rates and significantly higher FRB modeled loss rates. With the exception of Discover Financial, these differences appear less stark when measured in \$billions.

PHC = 0.943 BHC = 0.912 N = 30

Figure 19 Loan Losses – First Lien Mortgages, \$billions





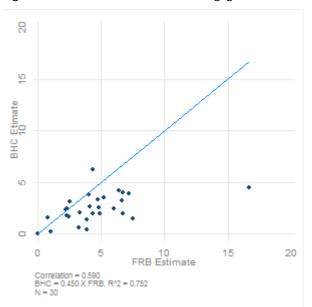


Figure 22 Loan Losses – Junior Liens & HELOCs, %

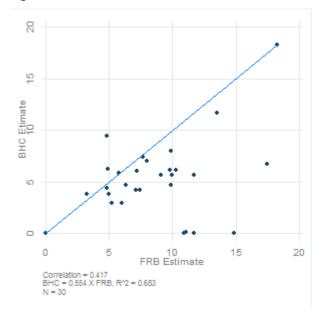


Figure 20 Loan Losses – First Lien Mortgages, %

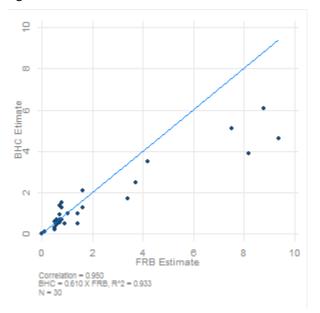


Figure 23 Loan Losses – Commercial & Industrial, \$billions

Figure 25 Loan Losses – Commercial Real Estate, \$billions

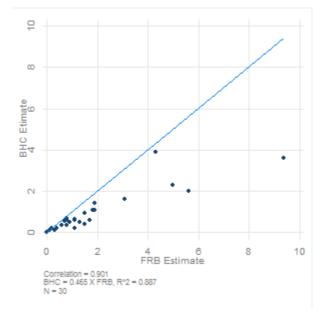


Figure 24 Loan Losses – Commercial & Industrial, %

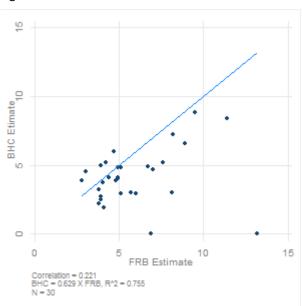


Figure 26 Loan Losses – Commercial Real Estate, %

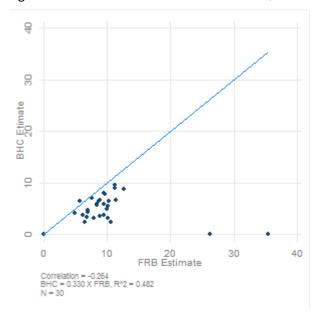


Figure 29 Loan Losses – Other Consumer, \$billions

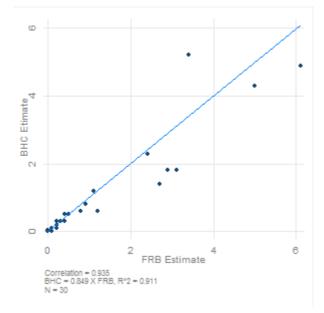
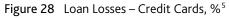


Figure 27 Loan Losses – Credit Cards, \$billions



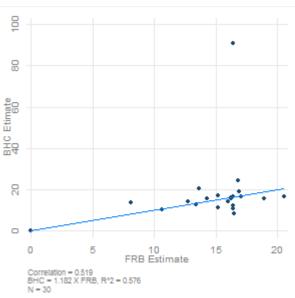
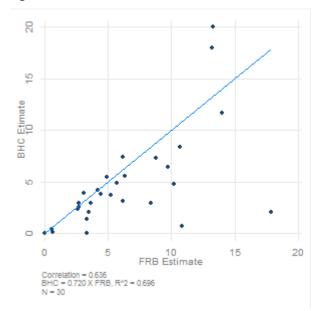


Figure 30 Loan Losses – Other Consumer, %



⁵ The outlier value (Santander) reflects combinations of PD and LGD that would be extreme in order to generate an EL in excess of 90%, raising the possibility that the result may have been a non-modeled, conservative estimate of losses.

G 00 G 4 Etimate 4 BHC Etimate BHO N 2 6 0 0 4 FRB Estimate elation = 0.921 = 0.349 X FRB, R*2 = 0.875 N = 30

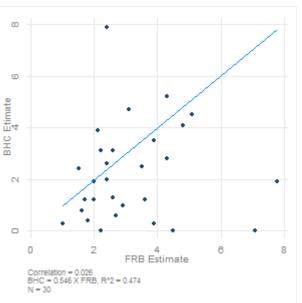


Figure 32 Loan Losses – Other Loans, %

Figure 31 Loan Losses – Other Loans, \$billions

6 Conclusion

Detailed comparisons of the DFAST results under the FRB's severely adverse economic scenario as modeled by the FRB and by the 30 CCAR BHCs reveals that the results of the FRB's and banks' models are overall directionally consistent. In general, estimates from the FRB's models are more conservative than those from banks' models. Back of the envelope calculations suggest that differences between FRB and bank modeled capital ratios can be attributed to differences in projected regulatory capital, risk-weighted assets, or both with no clear dominating factor. With respect to regulatory capital projections, the greatest differences among individual elements reside in loan loss projections – for residential mortgage and other loan portfolios in particular. Differences between FRB and BHC modeled estimates are due to differences in the models themselves, the source data used to calibrate the models, and the data on which the analyses are drawn (as demonstrated by the FRB's harsh treatment of missing/insufficient data). The FRB has made it clear that its goal is not for the FRB's and banks' results to align perfectly, but rather for banks to demonstrate they utilize well-specified and rigorous modeling approaches and stress testing processes. Why, then, bother comparing the FRB and BHC results? For both investors and policy makers, quantitative results remain the best tool available to assess banks' capital adequacy under stress. For the regulated banks, these comparisons highlight the importance of developing stress testing models that take account of banks' own experiences, business models, and portfolio characteristics. Specifically, the fact that the BHC results show wide variation and that the FRB models align well against that variation argues against targeting industry averages as benchmarks.

Appendix A Detailed FRB and BHC DFAST Estimate Tables

		ALLY	FINANCIAL		AMERICA	AN EXPRESS		BANK	F AMERICA
_	FRB	внс	DIFF= FRB-BHC	FRB	внс	DIFF= FRB-BHC	FRB	внс	DIFF= FRB-BHC
Projected Stressed (DFAST) Capital F	Ratios through	201504 (%)				FRD-DFIC			rkb-bric
Tier 1 common ratio	g.								
Ending	6.3	8.7	-2.4	14.0	16.2	-2.2	6.0	9.1	-3.1
Minimum	6.3	7.5	-1.2	12.1	12.6	-0.5	5.9	8.6	-2.7
Common equity tier 1 capital ratio									
Ending	7.3	NA	NA	14.0	15.9	-1.9	6.8	9.1	-2.3
Minimum	7.3	NA	NA	12.9	13.6	-0.7	6.8	8.6	3.7
Tier 1 risk-based capital ratio									
Ending	9.1	12.7	-3.6	14.0	15.9	-1.9	6.8	9.1	-2.3
Minimum	9.1	10.5	-1.4	12.3	12.7	-0.4	6.8	8.6	-2.1
Total risk-based capital ratio									
Ending	10.6	14.3	-3.7	15.4	17.3	-1.9	9.2	11.5	-2.3
Minimum	10.6	11.7	-1.1	14.1	14.5	-0.4	9.2	11.2	-2.0
Tier 1 leverage ratio									
Ending	7.9	10.6	-2.7	11.6	13.9	-2.3	4.4	5.8	-1.4
Minimum	7.9	9.0	-1.1	10.1	10.8	-0.7	4.4	5.7	-1.3
Projected 2015Q4 Risk-Weighted As	sets (\$billions)								
Current general approach	129.4	93.6	35.8	124.5	108.7	15.8	1319.5	1139.0	180.5
Basel III standardized approach	137.3	94.6	42.7	130.6	109.9	20.7	1401.6	1256.5	145.1
	10/10	5.10		10010	10010	2011		125015	
Projected Losses, Revenue, and Net I			- · ·			· · ·			
PPNR	3.6	0.8	2.8	20.9	17.4	3.5	31.4	26.2	5.2
PPNR (% of avg. assets)	2.3	0.6	1.7	13.6	13.0	0.6	1.4	1.3	0.1
Other revenue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	-1.1
less									
Provisions	5.7	3.0	2.7	14.9	11.9	3.0	57.0	41.8	15.2
Net charge-offs	5.0	2.7	2.3	11.4	9.5	1.9	54.9	30.3	24.6
Chg. ALLL	0.7	0.3	0.4	3.5	2.4	1.1	2.1	11.5	-9.4
Realized losses/gains on securities (AFS/HTM)	0.6	0.5	0.1	0.0	0.0	0.0	0.5	0.4	0.1
Trading and counterparty losses	0.0	0.0	0.0	0.0	0.0	0.0	15.8	14.9	0.9
Other losses/gains	0.0	0.0	0.0	0.0	0.3	-0.3	7.1	8.3	-1.2
equals									
Pre-tax NI	-2.7	-2.8	0.1	6.0	5.2	0.8	-49.1	-38.3	-10.8
Pre-tax NI (% of avg. assets)	-1.8	-2.2	0.4	3.9	3.9	0.0	-2.3	-1.9	-0.4
Projected Loan Losses by Type of Loa Total	an for 2013Q4- 5.0	2015Q4 (\$b 2.7	illions) 2.3	11.4	9.5	1.9	54.9	30.3	24.6
							40.7		
First lien mortgages, domestic Junior liens and HELOCs, domestic	0.4	0.1	0.3	0.0	0.0	0.0	9.9	4.9 5.2	7.8
Commercial and industrial	1.4	0.2	0.0	3.7	2.5	1.2	8.2	3.9	
Commercial real estate, domestic	0.1	0.5	0.9	0.0	0.0	0.0	5.6	2.0	4.3
Credit cards	0.0	0.1	0.0	7.7	7.0	0.0	13.7	12.0	3.6
Other consumer	2.9	1.8	1.1	0.0	0.0	0.0	2.7	12.0	1.7
Other loans	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.9	1.3
	0.0	0.0	0.0	0.1	0.0	U. I	2.1	0.5	1.2
Projected Loan Losses by Type of Loa									
Total	5.0	3.2	2.8	10.7	9.7	1.0	5.8	3.6	2.2
First lien mortgages, domestic	6.0	2.5	3.5	0.0	0.0	0.0	4.9	2.0	2.9
Junior liens and HELOCs, domestic	9.9	8.0	1.9	0.0	0.0	0.0	10.3	6.1	4.2
Commercial and industrial	4.1	1.9	2.2	11.4	8.4	3.0	3.8	2.2	1.6
Commercial real estate, domestic	4.8	4.1	0.7	0.0	0.0	0.0	8.9	3.5	5.4
Credit cards	0.0	0.0	0.0	10.6	10.5	0.1	13.4	12.6	0.8
Other consumer	5.2 3.9	3.7 0.3	1.5 3.6	0.0 4.5	0.0	0.0	3.5	2.1	1.4

		BN	NY MELLON			BB&T			BBVA
_	FRB	внс	DIFF=	FRB	внс	DIFF=	FRB	внс	DIFF=
Projected Stressed (DFAST) Capital R	atios through	201504 (%)	FRB-BHC			FRB-BHC			FRB-BHC
Tier 1 common ratio	acios cinougii	2013Q+(%)							
Ending	16.1	14.6	1.5	8.4	6.8	1.6	8.5	8.9	-0.4
Minimum	13.1	14.0	0.2	8.4	6.8	1.6	8.5	8.9	-0.4
Common equity tier 1 capital ratio	13.1	12.5	0.2	0.4	0.0	1.0	0.5	0.5	0.4
Ending	15.0	11.0	4.0	8.1	7.4	0.7	8.6	9.1	-0.5
Minimum	13.8	10.3	3.5	8.1	7.4	0.7	8.6	9.1	-0.5
Tier 1 risk-based capital ratio	15.0	10.5	5.5	0.1	7.4	0.7	0.0	5.1	-0.5
Ending	16.1	11.9	4.2	9.8	9.1	0.7	8.6	9.1	-0.5
Minimum	14.7	11.2	3.5	9.8	9.1	0.7	8.6	9.1	-0.5
Total risk-based capital ratio			5.5	5.0	5.1	0.1	0.0	5.1	0.5
Ending	16.3	12.0	4.3	11.6	10.9	0.7	10.6	11.0	-0.4
Minimum	15.3	11.5	3.8	11.6	10.9	0.7	10.6	11.0	-0.4
Tier 1 leverage ratio	15.5	11.5	5.0	11.0	10.5	0.7	10.0	11.0	0.4
Ending	6.6	5.7	0.9	8.0	7.9	0.1	7.5	8.1	-0.6
Minimum	5.3	5.1	0.5	8.0	7.9	0.1	7.5	8.1	-0.6
	5.5	5.1	0.2	0.0	1.5	0.1	1.5	0.1	0.0
Projected 2015Q4 Risk-Weighted As	sets (Spillions)								
Current general approach	118.0	116.0	2.0	139.9	NR	NA	55.6	53.7	1.9
Basel III standardized approach	138.5	162.4	-23.9	147.4	NR	NA	58.4	56.3	2.1
	150.5	102.4	23.5	147.4			50.4	50.5	
Projected Losses, Revenue, and Net I	ncome before	Taxes throug	zh 2015O4 (Sb	illions, unless	otherwise n	oted)			
PPNR	8.3	3.8	4.5	7.0	4.0	3.0	1.2	0.6	0.6
PPNR (% of avg. assets)	2.2	1.1	1.1	3.8	3.4	0.4	1.6	0.9	0.7
Other revenue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
less	0.0	0.0	0.0	010	0.0	010	0.0	0.0	
Provisions	0.8	0.7	0.1	5.5	5.9	-0.4	2.8	2.5	0.3
Net charge-offs	0.8	0.4	0.4	5.2	3.8	1.4	2.6	2.2	0.4
Chg. ALLL	0.0	0.3	-0.3	0.3	2.1	-1.8	0.2	0.3	-0.1
Realized losses/gains on securities	0.2	0.5	-0.3	0.0	0.1	-0.1	0.0	0.0	0.0
(AFS/HTM)	0.2	0.5	0.5	0.0	0.1	0.1	0.0	0.0	0.0
Trading and counterparty losses	1.3	1.4	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
Other losses/gains	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.1
equals									
Pre-tax NI	6.0	1.2	4.8	1.4	-2.0	3.4	-1.8	-1.9	0.1
Pre-tax NI (% of avg. assets)	1.6	0.4	1.2	0.8	1.4	-0.6	-2.5	-2.8	0.3
Projected Loan Losses by Type of Loa	an for 2013Q4	-2015Q4 (\$b	illions)						
Total	0.8	0.4	0.4	5.2	3.8	1.4	2.6	2.2	0.4
First lien mortgages, domestic	0.1	0.1	0.0	0.8	0.5	0.3	0.3	0.3	0.0
Junior liens and HELOCs, domestic	0.0	0.0	0.0	0.3	0.3	0.0	0.2	0.1	0.1
Commercial and industrial	0.1	0.1	0.0	0.7	0.7	0.0	0.6	0.7	-0.1
Commercial real estate, domestic	0.1	0.1	0.0	1.9	1.1	0.8	1.1	0.6	0.5
Credit cards	0.0	0.0	0.0	0.3	0.2	0.1	0.1	0.1	0.0
Other consumer	0.0	0.0	0.0	0.9	0.8	0.1	0.1	0.1	0.0
Other loans	0.4	0.1	0.3	0.2	0.2	0.0	0.1	0.2	-0.1
Projected Loan Losses by Type of Loa	n for 2013Q4								
Total	1.6	0.8	0.8	4.5	3.5	1.0	5.2	4.7	0.5
First lien mortgages, domestic	2.3	1.8	0.5	2.4	1.7	0.7	2.2	2.4	-0.2
	11.7	0.0	11.7	4.8	4.4	0.4	9.1	5.7	3.4
Junior liens and HELOCs, domestic				4.4	4.1	0.3	4.2	5.2	-1.0
Junior liens and HELOCs, domestic Commercial and industrial	5.1	2.9	2.2	7.7	4.1	015	4.2		
· · · · · · · · · · · · · · · · · · ·		2.9 6.4	2.2	6.2	3.7	2.5	10.3	6.5	3.8
Commercial and industrial	5.1								
Commercial and industrial Commercial real estate, domestic	5.1 8.6	6.4	2.2	6.2	3.7	2.5	10.3	6.5	3.8

	BMO FINANCIAL CAPITAL ONE						CITIGROUP		
_	FRB	внс	DIFF=	FRB	внс	DIFF=	FRB	внс	DIFF=
Projected Stressed (DFAST) Capital R	atios through	201504 (%)	FRB-BHC			FRB-BHC			FRB-BHC
Tier 1 common ratio	acios cinougn	2015Q4 (%)							
Ending	7.6	9.0	-1.4	7.8	12.3	-4.5	7.2	10.4	-3.2
Minimum	7.6	9.0	-1.4	7.8	12.3	-4.5	7.2	10.4	-2.8
Common equity tier 1 capital ratio	7.0	5.0	-1.4	7.0	10.4	-2.0	1.2	10.0	-2.0
Ending	8.9	9.9	-0.9	8.0	13.0	-5.0	9.3	10.4	-1.1
Minimum	8.9	9.9	-0.9	8.0	11.5	-3.5	9.3	10.4	-0.8
Tier 1 risk-based capital ratio	0.5	5.5	-0.5	0.0	11.5	-5.5	5.5	10.1	-0.0
Ending	8.9	9.9	-0.9	8.4	13.3	-4.9	9.3	10.4	-1.1
Minimum	8.5	9.9	-1.4	8.4	11.1	-2.7	9.3	10.1	-0.8
Total risk-based capital ratio	0.5	5.5	1.4	0.4		2.1	5.5	10.1	0.0
Ending	12.5	13.8	-1.3	10.1	15.1	-5.0	11.9	12.9	-1.0
Minimum	12.5	13.8	-1.4	10.1	13.2	-3.1	11.9	12.9	-1.0
Tier 1 leverage ratio	12.4	13.0	-1.4	10.1	15.2	-3.1	11.9	12.9	-1.0
Ending	6.5	7.5	-1.0	6.7	11.0	-4.3	5.7	6.3	-0.6
Minimum	6.0	6.9	-1.0	6.7	8.8	-4.3	5.7	6.3	-0.6
	0.0	0.9	-0.9	0.7	0.0	-2.1	5.7	0.1	-0.4
Projected 2015Q4 Risk-Weighted As	sets (\$billions)								
Current general approach	76.1	63.2	12.9	213.8	189.1	24.7	1100.2	957.2	143.0
Basel III standardized approach	81.1	69.2	12.0	241.0	195.0	46.0	1180.9	1061.1	119.8
Projected Losses, Revenue, and Net I						· · ·	225	12.4	
PPNR	1.5	0.7	0.8	21.2	16.6	4.6	32.5	42.4	-9.9
PPNR (% of avg. assets)	1.3	0.7	0.6	7.1	6.2	0.9	1.7	2.3	-0.6
Other revenue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
less									
Provisions	3.5	3.1	0.4	26.9	17.5	9.4	55.7	48.2	7.5
Net charge-offs	3.3	2.5	0.8	22.8	15.0	7.8	55.5	40.1	15.4
Chg. ALLL	0.2	0.6	-0.4	4.1	2.5	1.6	0.2	8.1	-7.9
Realized losses/gains on securities (AFS/HTM)	0.0	0.0	0.0	0.1	0.3	-0.2	1.3	1.2	0.1
Trading and counterparty losses	0.0	0.0	0.0	0.0	0.0	0.0	16.1	14.4	1.7
Other losses/gains	0.2	0.0	0.2	0.2	0.0	0.2	5.2	2.2	3.0
equals									
Pre-tax NI	-2.1	-2.4	0.3	-6.0	-1.2	-4.8	-45.7	-23.6	-22.1
Pre-tax NI (% of avg. assets)	-1.8	-2.3	0.5	-2.0	-0.5	-1.5	-2.4	-1.3	-1.1
Projected Loan Losses by Type of Loa	n for 2013Q4-	2015Q4 (\$b	illions)						
Total	3.3	2.5	0.8	22.8	15.0	7.8	55.5	40.1	15.4
First lien mortgages, domestic	0.6	0.3	0.3	1.4	0.1	1.3	6.8	3.5	3.3
Junior liens and HELOCs, domestic	0.4	0.3	0.1	0.2	0.1	0.1	4.6	3.1	1.5
Commercial and industrial	0.8	0.7	0.1	1.4	1.0	0.4	7.5	5.1	2.4
Commercial real estate, domestic	0.8	0.6	0.2	1.3	0.5	0.8	1.1	0.2	0.9
Credit cards	0.1	0.1	0.0	15.0	11.3	3.7	24.8	21.4	3.4
Other consumer	0.2	0.2	0.0	3.1	1.8	1.3	6.1	4.9	1.2
Other loans	0.5	0.3	0.2	0.4	0.3	0.1	4.7	1.9	2.8
Projected Loan Losses by Type of Loa	n for 201204	201504 (%)	1						
Total	6.1	5.0	1.1	11.8	8.4	3.4	8.4	7.0	1.4
First lien mortgages, domestic	6.7	4.0	2.7	3.9	0.4	3.5	7.2	3.9	3.3
Junior liens and HELOCs, domestic	7.2	6.0	1.2	10.0	5.7	4.3	13.5	11.7	1.8
Commercial and industrial	5.1	4.8	0.3	7.6	5.2	2.4	4.9	4.0	0.9
Commercial real estate, domestic	9.7	7.8	1.9	6.4	2.4	4.0	10.5	2.3	8.2
Credit cards	15.2	17.0	-1.8	20.5	16.6	3.9	10.5	16.6	0.4
	2.7			20.5 9.7					
Other consumer		2.6	0.1		6.4	3.3	14.0	11.7	2.3
Other loans	5.1	4.5	0.6	3.5	2.5	1.0	2.6	1.3	1.3

			COMERICA		DISCOVER	FINANCIAL		F	IFTH THIRD
_	FRB	внс	DIFF= FRB-BHC	FRB	внс	DIFF=	FRB	внс	DIFF= FRB-BHC
Projected Stressed (DFAST) Capital F	Ratios through 2	201504 (%)				FRB-BHC			FKD-DHC
Tier 1 common ratio			·						
Ending	8.6	8.8	-0.2	13.7	13.9	-0.2	8.4	9.0	-0.6
Minimum	8.6	8.8	-0.2	13.2	12.9	0.3	8.4	9.0	-0.6
Common equity tier 1 capital ratio									
Ending	8.4	8.8	-0.4	13.1	14.0	-0.9	7.9	9.0	-1.1
Minimum	8.4	8.8	-0.4	12.5	NA	NA	7.9	9.0	-1.1
Tier 1 risk-based capital ratio									
Ending	8.4	8.8	-0.4	13.9	14.8	-0.9	8.7	9.9	-1.2
Minimum	8.4	8.8	-0.4	13.3	13.8	-0.5	8.7	9.9	-1.2
Total risk-based capital ratio									
Ending	10.2	10.8	-0.6	15.7	16.9	-1.2	11.8	13.3	-1.5
Minimum	10.2	10.8	-0.6	15.2	16.1	-0.9	11.8	13.3	-1.5
Tier 1 leverage ratio									
Ending	8.6	9.3	-0.7	12.1	13.3	-1.2	8.5	9.1	-0.6
Minimum	8.6	9.3	-0.7	11.9	12.4	-0.5	8.5	9.1	-0.6
Projected 2015Q4 Risk-Weighted As	sets (\$billions)								
Current general approach	65.2	NR	NA	64.9	64.6	0.3	116.2	108.8	7.4
Basel III standardized approach	67.6	NR	NA	68.8	65.3	3.5	122.4	110.0	12.4
Projected Losses, Revenue, and Net I	ncome before "	Faves throug	ah 201504 (Shi	illions unless	otherwise n	oted)			
PPNR	1.1	1.0	0.1	12.0	9.0	3.0	4.7	3.3	1.4
PPNR (% of avg. assets)	1.7	1.6	0.1	15.5	12.0	3.5	3.7	2.7	1.4
Other revenue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
less	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Provisions	2.3	2.6	-0.3	11.4	8.3	3.1	4.5	3.8	0.7
Net charge-offs	2.1	2.0	0.1	9.5	6.7	2.8	4.8	3.6	1.2
Chg. ALLL	0.2	0.6	-0.4	1.9	1.6	0.3	-0.3	0.2	-0.5
Realized losses/gains on securities	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
(AFS/HTM)									
Trading and counterparty losses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other losses/gains	0.0	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
equals									
Pre-tax NI	-1.2	-1.6	0.4	0.6	0.7	-0.1	0.1	-0.6	0.7
Pre-tax NI (% of avg. assets)	-1.7	-2.7	1.0	0.7	0.9	-0.2	0.1	-0.5	0.6
Projected Loan Losses by Type of Loa	n for 201204	201504 (61	:Illiana)						
				0.5	67	20	1 0	26	1 2
Total First lien mortgages, domestic	2.1	2.0	0.1	9.5	6.7	2.8	4.8	3.6	1.2 0.3
Junior liens and HELOCs, domestic	0.1	0.0	0.1	0.0	0.0	0.0	0.7	0.4	0.3
Commercial and industrial	0.1	1.5	-0.7	0.0	0.0	0.0	1.6	1.3	0.4
Commercial real estate, domestic	0.8	0.4	-0.7	0.0	0.0	0.0	0.9	0.5	0.3
Credit cards	0.8	0.4	0.0	8.3	6.1	2.2	0.9	0.3	0.4
Other consumer	0.0	0.0	0.0	1.2	0.6	0.6	0.4	0.3	0.0
Other loans	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.4	-0.1
	0.5	0.0	0.5	0.0	0.0	0.0	0.5	0.4	-0.1
Projected Loan Losses by Type of Loa		- •		48.5	40 -				
Total	4.7	4.7	0.0	15.2	10.8	4.4	5.5	4.3	1.2
First lien mortgages, domestic	4.3	2.0	2.3	0.0	0.0	0.0	5.2	3.5	1.7
Junior liens and HELOCs, domestic	5.8	5.9	-0.1	14.9	0.0	14.9	7.4	4.2	3.2
Commercial and industrial	3.0	4.5	-1.5	13.2	0.0	13.2	4.9	4.1	0.8
Commercial real estate, domestic	7.5	7.0	0.5	35.4	0.0	35.4	9.4	5.9	3.5
Credit cards	0.0	0.0	0.0	16.4	12.3	4.1	18.9	15.9	3.0
Other consumer	8.4	2.9	5.5	10.2	4.8	5.4	2.6	2.4	0.2
Other loans	7.1	0.0	7.1	4.5	0.0	4.5	3.1	4.7	-1.6

		GOLDN	IAN SACHS		HSBC	HUNTINGTUN			
-	FRB	ВНС	DIFF=	FRB	внс	DIFF=	FRB	внс	DIFF=
Projected Stressed (DFAST) Capital	Ratios through	201504 (%)	FRB-BHC			FRB-BHC			FRB-BHC
Tier 1 common ratio									
Ending	9.2	13.7	-4.5	6.6	8.7	-2.1	7.4	9.3	-1.9
Minimum	6.9	10.7	-3.8	6.6	8.6	-2.0	7.4	9.0	-1.6
Common equity tier 1 capital ratio									
Ending	7.5	9.7	-2.2	9.4	9.9	-0.4	7.9	NA	NA
Minimum	6.6	9.0	-2.4	9.4	9.8	-0.4	7.9	NA	NA
Tier 1 risk-based capital ratio									
Ending	8.4	11.1	-2.7	9.4	10.2	-0.8	8.5	10.2	-1.7
Minimum	7.3	10.3	-3.0	9.4	10.2	-0.8	8.5	10.0	-1.5
Total risk-based capital ratio									
Ending	10.8	13.5	-2.7	18.2	18.1	0.1	10.8	12.6	-1.8
Minimum	9.5	12.7	-3.2	18.2	18.0	0.2	10.8	12.6	-1.8
Tier 1 leverage ratio									
Ending	5.3	7.3	-2.0	4.4	5.9	-1.5	7.5	8.7	-1.2
Minimum	4.9	6.0	-1.1	4.4	5.9	-1.5	7.5	7.4	0.1
Projected 2015Q4 Risk-Weighted As	sets (\$billions))							
Current general approach	456.1	382.9	73.2	154.4	NR	NA	49.8	NR	NA
Basel III standardized approach	595.2	562.7	32.5	164.8	NR	NA	52.5	NR	NA
Projected Losses, Revenue, and Net	Income before	Taxes throw	ah 201504 (¢h	il unless othe	nuise noted	n			
PPNR	4.9	11.3	-6.4	-1.1	-2.1	1.0	1.5	1.8	-0.3
PPNR (% of avg. assets)	0.5	1.3	-0.8	-0.3	2.1	-0.3	2.5	3.8	-1.3
Other revenue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
less	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Provisions	2.1	1.1	1.0	8.5	5.3	3.2	2.3	1.8	0.5
Net charge-offs	1.6	1.1	0.5	10.0	4.6	5.4	2.1	1.6	0.5
Chg. ALLL	0.5	0.0	0.5	-1.5	0.7	-2.2	0.2	0.3	-0.1
Realized losses/gains on securities	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.5	-0.1
(AFS/HTM)	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1
Trading and counterparty losses	19.8	19.5	0.3	0.0	0.0	0.0	0.0	0.1	-0.1
Other losses/gains	6.0	0.8	5.2	1.1	0.7	0.4	0.2	0.0	0.2
equals									
Pre-tax NI	-23.0	-10.1	-12.9	-10.7	-8.3	-2.4	-1.0	-0.1	-0.9
Pre-tax NI (% of avg. assets)	-2.5	-1.2	-1.3	-3.4	NR	NA	-1.7	-0.3	-1.4
Projected Loan Losses by Type of Loa	an for 2013O4	-201504 (\$b	villions)						
Total	1.6	1.1	0.5	10.0	4.6	5.4	2.1	1.6	0.5
First lien mortgages, domestic	0.0	0.0	0.0	6.8	1.6	5.2	0.3	0.3	0.0
Junior liens and HELOCs, domestic	0.0	0.0	0.0	1.0	0.8	0.2	0.4	0.2	0.2
Commercial and industrial	0.5	0.6	-0.1	0.7	1.4	-0.7	0.6	0.4	0.2
Commercial real estate, domestic	0.3	0.1	0.2	1.1	0.7	0.4	0.6	0.4	0.2
Credit cards	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
Other consumer	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.1	0.1
Other loans	0.8	0.4	0.4	0.3	0.0	0.3	0.0	0.2	-0.2
Projected Loan Losses by Type of Loa	an for 201304	-201504 (%)						
Total	3.1	2.9	0.2	10.8	NR	NA	4.9	3.7	1.2
First lien mortgages, domestic	7.5	1.5	6.0	16.7	4.5	12.2	4.0	3.8	0.2
Junior liens and HELOCs, domestic	10.9	0.0	10.9	18.3	18.3	0.0	6.0	2.9	3.1
Commercial and industrial	9.5	8.8	0.7	2.8	3.9	-1.1	4.8	3.9	0.9
Commercial real estate, domestic	10.0	4.9	5.1	12.6	8.7	3.9	6.9	4.7	2.2
Credit cards	0.0	0.0	0.0	12.0	10.8	5.6	8.1	13.9	-5.8
Other consumer	3.3	0.0	3.3	10.4	0.7	10.1	3.3	13.9	-5.8
Other loans	1.8	0.0	1.4	2.2	0.0	2.2	2.4	7.9	-5.5
	1.8	0.4	1.4	۲.۲	0.0	۲.۲	2.4	1.9	-5.5

		JPMORG	GAN CHASE			M&T			
_	FRB	внс	DIFF= FRB-BHC	FRB	внс	DIFF= FRB-BHC	FRB	внс	DIFF= FRB-BHC
Projected Stressed (DFAST) Capital	Ratios through	n 2015Q4 (%)				TRO-DITC			TRD-DITC
Tier 1 common ratio									
Ending	6.7	7.6	-0.9	9.3	10.2	-0.9	6.2	8.8	-2.6
Minimum	6.3	6.5	-0.2	9.2	9.8	-0.6	6.2	8.5	-2.3
Common equity tier 1 capital ratio									
Ending	6.5	7.3	-0.8	9.3	10.7	-1.4	6.7	9.3	-2.6
Minimum	6.5	6.6	-0.1	9.3	10.3	-1.0	6.7	9.1	-2.4
Tier 1 risk-based capital ratio									
Ending	7.1	8.0	-0.9	9.6	11.0	-1.4	7.9	10.6	-2.7
Minimum	7.1	7.3	-0.2	9.6	10.6	-1.0	7.9	10.4	-2.5
Total risk-based capital ratio									
Ending	9.3	10.2	-0.9	11.9	13.4	-1.5	11.0	14.1	-3.1
Minimum	9.3	9.6	-0.3	11.9	12.9	-1.0	11.0	13.5	-2.5
Tier 1 leverage ratio									
Ending	4.6	5.7	-1.1	9.2	10.3	-1.1	7.0	8.3	-1.3
Minimum	4.6	5.4	-0.8	9.2	10.0	-0.8	7.0	8.3	-1.3
Projected 2015Q4 Risk-Weighted A	ssets (\$billions	;)							
Current general approach	1457.8	1338.0	119.8	84.1	71.8	12.3	85.6	81.2	4.4
Basel III standardized approach	1574.1	1563.0	11.1	87.2	74.6	12.6	98.4	83.0	15.4
Projected Losses, Revenue, and Net	Income before	Taxas throw	th 201504 (thi	llions unloss	othonwico n	oted)			
PPNR	48.8	36.1	12.7	2.5	2.2	0.3	3.9	3.9	0.0
PPNR (% of avg. assets)	1.9	1.6	0.3	2.7	2.6	0.5	3.9	4.0	-0.1
Other revenue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1
less	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Provisions	59.1	50.0	9.1	3.1	3.5	-0.4	4.8	3.1	1.7
Net charge-offs	54.2	36.5	17.7	2.9	2.2	0.7	4.0	2.4	1.7
Chg. ALLL	4.9	13.5	-8.6	0.2	1.3	-1.1	0.8	0.7	0.1
Realized losses/gains on securities	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(AFS/HTM)									
Trading and counterparty losses	24.2	20.7	3.5	0.0	0.0	0.0	0.0	0.1	-0.1
Other losses/gains	1.8	0.3	1.5	0.4	0.0	0.4	0.1	0.8	-0.7
equals									
Pre-tax NI	-37.6	-36.2	-1.4	-1.0	-1.3	0.3	-0.9	0.1	-1.0
Pre-tax NI (% of avg. assets)	-1.5	1.6	-3.1	-1.0	-1.6	0.6	-0.9	0.1	-1.0
Projected Loan Losses by Type of Lo	an for 2013Q4	-2015Q4 (\$b	illions)						
Total	54.2	36.5	17.7	2.9	2.2	0.7	4.0	2.4	1.6
First lien mortgages, domestic	8.9	4.5	4.4	0.2	0.1	0.1	0.8	0.2	0.6
Junior liens and HELOCs, domestic	8.9	4.0	4.9	0.4	0.2	0.2	0.4	0.3	0.1
Commercial and industrial	8.8	6.1	2.7	0.7	0.6	0.1	0.6	0.6	0.0
Commercial real estate, domestic	5.0	2.3	2.7	0.7	0.6	0.1	1.8	1.1	0.7
Credit cards	14.4	15.6	-1.2	0.1	0.2	-0.1	0.1	0.0	0.1
Other consumer	2.4	2.3	0.1	0.4	0.3	0.1	0.2	0.1	0.1
Other loans	5.8	1.6	4.2	0.2	0.3	-0.1	0.1	0.1	0.0
Projected Loan Losses by Type of Lo	an for 2013Q4	-2015Q4 (%)							
Total	7.3	5.1	2.2	5.1	4.2	0.9	5.3	3.3	2.0
First lien mortgages, domestic	6.6	3.2	3.4	4.1	2.7	1.4	3.9	1.4	2.5
Junior liens and HELOCs, domestic	11.7	5.7	6.0	5.2	2.9	2.3	7.1	4.2	2.9
Commercial and industrial	7.0	4.7	2.3	3.8	3.2	0.6	4.0	3.7	0.3
Commercial real estate, domestic	6.7	3.3	3.4	8.8	6.6	2.2	6.9	4.3	2.6
							16.5		8.0
Credit cards	12.7	14.0	-1.3	16.8	24.6	-7.8	10.5	8.5	0.0
Credit cards Other consumer	4.4	3.8	-1.3	8.8	7.3	-7.8	6.2	3.1	3.1

		MORGA	N STANLEY		NORTH	IERN TRUST	PNC FINANCIAL			
-	FRB	внс	DIFF= FRB-BHC	FRB	внс	DIFF= FRB-BHC	FRB	ВНС	DIFF= FRB-BHC	
Projected Stressed (DFAST) Capital I	Ratios through	201504 (%)				FKD-DFIC			FKD-DFIC	
Tier 1 common ratio	9									
Ending	7.6	9.1	-1.5	11.7	13.9	-2.2	9.0	9.6	-0.6	
Minimum	6.1	8.1	-2.0	11.7	12.7	-1.0	9.0	9.6	-0.6	
Common equity tier 1 capital ratio										
Ending	7.8	8.2	-0.4	10.6	11.3	-0.7	7.5	8.6	-1.1	
Minimum	7.1	7.6	-0.5	10.6	11.0	-0.4	7.5	8.6	-1.1	
Tier 1 risk-based capital ratio										
Ending	7.9	8.7	-0.8	10.7	11.4	-0.7	9.1	9.9	-0.8	
Minimum	7.1	8.1	-1.0	10.7	11.1	-0.4	9.1	9.9	-0.8	
Total risk-based capital ratio										
Ending	9.9	10.6	-0.7	13.7	13.8	-0.1	11.8	12.8	-1.0	
Minimum	8.9	10.0	-1.1	13.7	13.7	0.0	11.8	12.8	-1.0	
Tier 1 leverage ratio										
Ending	4.6	6.1	-1.5	7.1	8.7	-1.6	8.8	8.8	0.0	
Minimum	4.5	5.9	-1.4	7.1	8.3	-1.2	8.8	8.8	0.0	
Projected 2015Q4 Risk-Weighted As	sets (\$billions)									
Current general approach	409.8	NR	NA	59.0	NR	NA	270.1	258.1	12.0	
Basel III standardized approach	495.1	NR	NA	65.0	NR	NA	296.4	269.1	27.3	
Projected Losses, Revenue, and Net	Income before '	Taxes throug	zh 2015Q4 (\$bi	llions, unless (otherwise n	oted)				
PPNR	0.4	6.4	-6.0	2.7	1.6	1.1	10.8	8.3	2.5	
PPNR (% of avg. assets)	0.0	0.9	-0.9	2.7	1.9	0.8	3.4	2.6	0.8	
Other revenue	0.0	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	
less										
Provisions	2.2	2.4	-0.2	3.0	1.1	1.9	11.3	10.2	1.1	
Net charge-offs	1.7	2.0	-0.3	2.4	1.0	1.4	10.1	6.9	3.2	
Chg. ALLL	0.5	0.4	0.1	0.6	0.1	0.5	1.2	3.3	-2.1	
Realized losses/gains on securities (AFS/HTM)	0.0	0.1	-0.1	0.0	0.0	0.0	0.3	0.3	0.0	
Trading and counterparty losses	13.3	10.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	
Other losses/gains	2.1	2.9	-0.8	0.0	0.0	0.0	0.4	0.0	0.4	
equals	_	2.5	0.0	0.0	0.0	0.0	0.1			
Pre-tax NI	-17.3	-9.6	-7.7	-0.4	0.5	-0.9	-1.1	-2.2	1.1	
Pre-tax NI (% of avg. assets)	-2.0	-1.4	-0.6	-0.4	0.6	-1.0	-0.3	-0.7	0.4	
	2.0		0.0	0.1	0.0	1.0	0.5			
Projected Loan Losses by Type of Loa	an for 2013Q4-	2015Q4 (\$b	illions)							
Total	1.7	2.0	-0.3	2.4	1.0	1.4	10.1	6.9	3.2	
First lien mortgages, domestic	0.1	0.0	0.1	0.4	0.2	0.2	0.6	0.6	0.0	
Junior liens and HELOCs, domestic	0.0	0.0	0.0	0.4	0.2	0.2	1.3	1.5	-0.2	
Commercial and industrial	0.8	1.3	-0.5	0.5	0.2	0.3	3.4	1.7	1.7	
Commercial real estate, domestic	0.2	0.2	0.0	0.4	0.2	0.2	3.1	1.6	1.5	
Credit cards	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	-0.1	
Other consumer	0.1	0.0	0.1	0.0	0.0	0.0	0.8	0.6	0.2	
Other loans	0.5	0.4	0.1	0.7	0.2	0.5	0.4	0.3	0.1	
Projected Loan Losses by Type of Loa	an for 2013Q4-	2015Q4 (%)	<u> </u>							
Total	3.0	2.5	0.5	8.2	3.5	4.7	5.2	3.7	1.5	
First lien mortgages, domestic	1.0	0.2	0.8	4.7	3.3	1.4	2.3	2.5	-0.2	
Junior liens and HELOCs, domestic	11.1	0.1	11.0	17.5	6.7	10.8	4.9	6.2	-1.3	
Commercial and industrial	8.9	6.6	2.3	8.1	3.0	5.1	5.7	3.0	2.7	
Commercial real estate, domestic	9.4	8.0	1.4	11.3	6.7	4.6	10.1	5.5	4.6	
	0.0	0.0	0.0	0.0	0.0	0.0	14.3	15.9	-1.6	
Credit cards	0.0	0.0	0.0							
Other consumer	0.6	0.1	0.5	17.9	2.1	15.8	3.6	2.9	0.7	

		RB	S CITIZENS		REGIONS	FINANCIAL	SANTANDER			
_	FRB	внс	DIFF= FRB-BHC	FRB	внс	DIFF= FRB-BHC	FRB	внс	DIFF= FRB-BHC	
Projected Stressed (DFAST) Capital R	atios through	201504 (%)	FKD-DFIC			rkb-bric			FKD-DFIC	
Tier 1 common ratio										
Ending	10.7	12.3	-1.6	9.0	7.3	1.7	7.3	7.1	0.2	
Minimum	10.7	12.2	-1.5	8.9	7.3	1.6	7.3	7.1	0.2	
Common equity tier 1 capital ratio										
Ending	10.7	12.4	-1.7	9.3	8.2	1.1	6.7	7.1	-0.4	
Minimum	10.7	12.3	-1.6	9.3	8.2	1.1	6.7	7.1	-0.4	
Tier 1 risk-based capital ratio										
Ending	10.9	12.4	-1.5	9.5	8.2	1.3	10.0	8.2	1.8	
Minimum	10.9	12.2	-1.3	9.5	8.2	1.3	8.9	8.2	0.7	
Total risk-based capital ratio										
Ending	13.5	15.2	-1.7	12.0	10.9	1.1	12.8	10.4	2.4	
Minimum	13.5	14.9	-1.4	12.0	10.9	1.1	11.2	10.4	0.8	
Tier 1 leverage ratio										
Ending	9.5	10.5	-1.0	8.2	7.1	1.1	8.9	7.7	1.2	
Minimum	9.5	10.0	-0.5	8.1	7.1	1.0	7.8	7.7	0.1	
Projected 2015Q4 Risk-Weighted Ass	ets (\$billions)									
Current general approach	96.0	89.9	6.1	97.3	88.8	8.5	88.5	NR	NA	
Basel III standardized approach	101.4	91.9	9.5	101.6	92.7	8.9	91.8	NR	NA	
Projected Losses, Revenue, and Net Ir	ncome before	Taves throug	h 201504 (\$h	illions unless	otherwise n	ated)				
PPNR	3.2	2.0	1.2	4.3	2.4	1.9	5.6	7.2	-1.6	
PPNR (% of avg. assets)	2.6	1.7	0.9	3.6	2.1	1.5	5.4	7.2	-1.9	
Other revenue	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	
less	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Provisions	5.7	3.9	1.8	5.6	5.9	-0.3	8.0	8.2	-0.2	
Net charge-offs	4.9	3.0	1.0	5.2	4.3	0.9	6.4	7.3	-0.9	
Chg. ALLL	0.8	0.9	-0.1	0.4	1.5	-1.2	1.6	0.9	0.7	
Realized losses/gains on securities	0.0	0.5	0.0	0.0	0.2	-0.2	0.0	-0.1	0.1	
(AFS/HTM)										
Trading and counterparty losses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other losses/gains	0.2	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.0	
equals										
Pre-tax NI	-2.6	-1.9	-0.7	-1.4	-3.6	2.2	-2.4	-1.1	-1.3	
Pre-tax NI (% of avg. assets)	-2.1	-1.7	-0.4	-1.2	-3.1	1.9	-2.4	-1.1	-1.3	
Projected Loan Losses by Type of Loa	n for 2013Q4-	2015Q4 (\$bi	llions)							
Total	4.9	3.0	1.9	5.2	4.3	0.9	6.4	7.3	-0.9	
First lien mortgages, domestic	0.4	0.2	0.2	0.9	0.6	0.3	0.4	0.6	-0.2	
Junior liens and HELOCs, domestic	2.0	0.9	1.1	0.8	0.6	0.2	0.3	0.4	-0.1	
Commercial and industrial	0.9	0.5	0.4	1.0	1.0	0.0	0.5	0.3	0.2	
Commercial real estate, domestic	0.9	0.5	0.4	1.9	1.4	0.5	1.7	0.6	1.1	
Credit cards	0.2	0.2	0.0	0.2	0.2	0.0	0.0	0.1	-0.1	
Other consumer	0.4	0.5	-0.1	0.2	0.3	-0.1	3.4	5.2	-1.8	
Other loans	0.1	0.1	0.0	0.3	0.3	0.0	0.1	0.0	0.1	
Projected Loan Losses by Type of Loa	n for 2013Q4-	2015Q4 (%)								
Total	5.8	3.8	2.0	6.9	5.9	1.0	8.7	10.5	-1.8	
First lien mortgages, domestic	3.3	2.1	1.2	6.4	4.2	2.2	4.3	6.2	-1.9	
Junior liens and HELOCs, domestic	9.9	4.7	5.2	8.0	7.0	1.0	4.8	9.4	-4.6	
Junior tiens and riceoes, domestic			1.4	4.9	4.8	0.1	3.9	2.7	1.2	
Commercial and industrial	3.9	2.5	1.4	1.5						
	3.9 8.4	2.5 5.6	2.8	11.2	9.0	2.2	9.5	3.8	5.7	
Commercial and industrial										
Commercial and industrial Commercial real estate, domestic	8.4	5.6	2.8	11.2	9.0	2.2	9.5	3.8	5.7	

		ST	ATE STREET			SUNTRUST	ST U.S. BANCO			
_	FRB	внс	DIFF= FRB-BHC	FRB	внс	DIFF= FRB-BHC	FRB	внс	DIFF= FRB-BHC	
Projected Stressed (DFAST) Capital R	atios through	2015Q4 (%)				The brie			THE BITC	
Tier 1 common ratio										
Ending	14.7	14.1	0.6	9.0	9.1	-0.1	8.3	8.5	-0.2	
Minimum	13.3	11.7	1.6	8.8	9.1	-0.3	8.2	8.5	-0.3	
Common equity tier 1 capital ratio										
Ending	11.9	9.0	2.9	8.5	8.8	-0.3	7.6	8.1	-0.5	
Minimum	11.4	8.4	3.0	8.4	8.8	-0.4	7.5	8.1	-0.6	
Tier 1 risk-based capital ratio										
Ending	12.8	9.6	3.2	9.0	9.3	-0.3	9.2	9.5	-0.3	
Minimum	12.2	9.0	3.2	8.9	9.3	-0.4	9.1	9.5	-0.4	
Total risk-based capital ratio										
Ending	14.8	11.3	3.5	10.9	11.3	-0.4	11.1	11.5	-0.4	
Minimum	14.3	10.7	3.6	10.9	11.3	-0.4	11.0	11.5	-0.5	
Tier 1 leverage ratio										
Ending	7.0	6.1	0.9	7.8	8.6	-0.8	8.1	7.7	0.4	
Minimum	6.3	5.7	0.6	7.8	8.6	-0.8	8.1	7.7	0.4	
Projected 2015Q4 Risk-Weighted Ass	sets (\$billions)									
Current general approach	83.0	NR	NA	144.9	135.0	9.9	297.1	283.6	13.5	
Basel III standardized approach	111.2	NR	NA	149.9	141.6	8.3	316.1	296.1	20.0	
Projected Losses, Revenue, and Net I	ncome before	Taxes throug	gh 2015Q4 (\$b	illions, unless	otherwise n	oted)				
PPNR	4.8	3.3	1.5	5.8	3.6	2.2	20.6	17.1	3.5	
PPNR (% of avg. assets)	2.2	1.6	0.6	3.3	2.1	1.2	5.6	4.6	1.0	
Other revenue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
less										
Provisions	0.6	0.1	0.5	6.1	6.5	-0.4	17.1	17.5	-0.4	
Net charge-offs	0.5	0.1	0.4	5.7	5.5	0.2	15.6	15.0	0.6	
Chg. ALLL	0.1	0.0	0.1	0.4	1.0	-0.6	1.5	2.5	-1.0	
Realized losses/gains on securities	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.1	-0.1	
(AFS/HTM)										
Trading and counterparty losses	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other losses/gains	0.0	0.0	0.0	0.9	0.1	0.8	0.4	0.0	0.4	
equals										
Pre-tax NI	2.1	1.2	0.9	-1.2	-2.9	1.7	3.1	-0.5	3.6	
Pre-tax NI (% of avg. assets)	0.9	0.6	0.3	-0.7	-1.8	1.1	0.8	-0.1	0.9	
Projected Loan Losses by Type of Loa	n for 2013O4-	2015O4 (\$b	illions)							
Total	0.5	0.1	0.4	5.7	5.5	0.2	15.6	15.0	0.6	
First lien mortgages, domestic	0.0	0.0	0.0	1.3	0.6	0.7	1.3	1.8	-0.5	
Junior liens and HELOCs, domestic	0.0	0.0	0.0	1.2	1.0	0.2	1.0	0.7	0.3	
Commercial and industrial	0.0	0.0	0.0	1.6	2.1	-0.5	4.2	3.5	0.7	
Commercial real estate, domestic	0.0	0.0	0.0	0.8	0.7	0.1	4.3	3.9	0.4	
Credit cards	0.0	0.0	0.0	0.1	0.1	0.0	2.8	2.9	-0.1	
Other consumer	0.0	0.0	0.0	0.5	0.5	0.0	1.1	1.2	-0.1	
Other loans	0.4	0.1	0.3	0.2	0.3	-0.1	0.9	1.0	-0.1	
Projected Loan Losses by Type of Loa	n for 2013O4-	201504 (%))							
Total	3.1	0.6	2.5	4.6	4.7	-0.1	7.0	6.6	0.4	
First lien mortgages, domestic	0.0	0.0	0.0	4.8	2.6	2.2	2.5	3.1	-0.6	
	0.0	0.0	0.0	7.7	7.4	0.3	6.3	4.7	1.6	
Junior liens and HELOCs. domestic				4.7	6.0	-1.3	8.2	7.2	1.0	
Junior liens and HELOCs, domestic	6.9	0.0	6.9	4./						
Commercial and industrial	6.9 26.2	0.0	6.9 26.2							
Commercial and industrial Commercial real estate, domestic	26.2	0.0	26.2	5.6	6.4	-0.8	11.2	9.6	1.6	
Commercial and industrial										

FRB BHC FRB <th></th> <th colspan="7">UNIONBANCAL WELLS FARGO</th> <th colspan="3">ZION</th>		UNIONBANCAL WELLS FARGO							ZION			
Projected Stressed (DFAST) Capital Refors through 2015Q4 (%) Tert Tommon ratio Tert Tommon requiry tier 1 capital ratio Ending 8.2 10.1 -1.9 7.4 9.2 -1.8 4.6 NA N Minimum 8.2 10.1 -1.9 7.4 9.2 -1.8 4.6 NA N Minimum 8.2 10.1 -1.9 7.4 9.2 -1.8 4.6 NA N Minimum 8.2 10.1 -1.9 7.4 9.2 -1.8 4.6 NA N Minimum 8.2 10.1 -1.9 8.5 11.0 -2.5 5.4 8.1 -2 Ending 8.2 10.1 -1.9 8.5 11.0 -2.5 5.4 8.1 -2 Minimum 8.2 10.1 -1.9 8.5 11.0 -2.5 5.4 8.1 -2 Total risk-based capital ratio Ending 7.6 9.6 -2.0 7.0 9.1 -1.5 7.2 10.1 -2 Tert Tisk-based capital ratio Tert Tisk-based capital ratio Tert Tisk-based capital ratio Ending 7.6 9.6 -2.0 7.0 9.1 -1.5 5.4 8.1 -2 Minimum 7.6 2.6 7.0 9.1 -2.1 4.5 5.9 -1. Tert Tisk-based capital ratio Tert Tisk-based capital ratio Ending 7.6 9.6 -2.0 7.0 9.1 -2.1 4.5 5.9 -1. Minimum 7.6 2.6 -2.0 7.0 9.1 -2.1 4.5 5.9 -1. Minimum 7.6 9.6 -2.0 7.0 9.1 -2.1 4.5 5.9 -1. Minimum 7.6 9.6 -2.0 7.0 9.1 -2.1 4.5 5.9 -1. Minimum 7.6 9.6 -2.0 7.0 9.1 -2.1 4.5 5.9 -1. Minimum 7.6 9.6 -2.0 7.0 9.1 -2.1 4.5 5.9 -1. Minimum 7.6 9.6 -2.0 7.0 9.1 -2.1 4.5 5.9 -1. Minimum 7.6 9.6 -2.0 7.0 9.1 -2.1 4.5 5.9 -1. Minimum 8.2 2015Q4 Risk-Weighted Assets (Sbillion) Cornet general approach 52.8 N.R NA 1161.6 10337 127.9 44.8 N.R N Projected 2015Q4 Risk-Weighted Assets (Sbillion) Cornet general approach 52.8 N.R NA 1161.6 10337 127.9 44.8 N.R N Projected Losses, Revenue, and Net Income before Taxas through 2015Q4 (Sbillions, unless otherwise noted) PPNR (% of arg. assets) 0.7 0.9 -0.2 3.3 N.R NA 0.4 N.R N Projected Losses, Revenue, and Net Income before Taxas through 2015Q4 (Sbillions, unless otherwise noted) PPNR (% of arg. assets) 0.7 0.9 -0.2 6.5 19.1 -1.2 6 0.3 0.4 -0.0 Met Angreenfs 4.1 2.8 1.3 61.6 45.9 15.7 2.8 2.1 00 Net for sequentias 0.4 0.1 0.3 12 2.6 -1.4 0.3 0.6 -0 Metrothere service 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	_	FRB	внс		FRB	внс		FRB	внс	DIFF=		
The't common ratio Friding 8.1 10.2 -2.1 8.2 9.7 -1.5 3.6 5.9 -2.7 Minimum 8.1 10.2 -2.1 8.2 9.7 -1.5 3.6 5.9 -2.7 Ending 8.2 10.1 -1.9 7.4 9.8 -2.4 4.6 NA N Time finish-based capital ratio	Projected Stressed (DFAST) Capital R	atios through	201504 (%)				FKD-DFIC			FRD-DHC		
Minimum 8.1 10.2 -2.1 8.2 9.7 -1.5 3.6 5.9 -2. Ending 8.2 10.1 -1.9 7.4 9.8 -2.4 4.6 NA N Tier trick-based capital ratio - - -1.8 4.6 NA N Text risk-based capital ratio -				·								
Minimum 8.1 10.2 -2.1 8.2 9.7 -1.5 3.6 5.9 -2. Ending 8.2 10.1 -1.9 7.4 9.8 -2.4 4.6 NA N Tier trick-based capital ratio - - -1.8 4.6 NA N Text risk-based capital ratio -	Ending	8.1	10.2	-2.1	8.2	11.0	-2.8	3.6	5.9	-2.3		
Ending 8.2 10.1 -19 7.4 9.8 -2.4 4.6 NA N Ter trik-based capital ratio 6.2 10.1 -19 8.5 11.0 -2.5 5.4 8.1 -2.5 Minimum 8.2 10.1 -19 8.5 10.4 -19 5.4 8.1 -2.5 Inding 8.2 10.1 -19 8.5 10.4 -2.5 5.4 8.1 -2.5 Inding 10.4 12.4 -2.0 12.0 13.8 -1.8 7.2 10.1 -2.5 Minimum 10.4 12.4 -2.0 12.0 13.8 -1.8 7.2 10.1 -2.5 Ending 7.6 9.6 -2.0 7.0 9.1 -2.1 4.5 5.8 -1 Projected 035Q4 Risk-Weighted Assets (Sbillons) Current general approach 9.2.8 NR NA 1211.3 115.7 2.4.4.8 NR NR Projected 035Q4 Risk-Weighted Assets (Sbillons										-2.3		
Ending 8.2 10.1 -19 7.4 9.8 -2.4 4.6 NA N Ter ininum 8.2 10.1 -19 7.4 9.2 -18 4.6 NA N Ending 8.2 10.1 -19 8.5 11.0 -2.5 5.4 8.1 -2 Minimum 8.2 10.1 -19 8.5 10.4 -1.9 5.4 8.1 -2 Inding 10.4 12.4 -2.0 12.0 13.8 -1.8 7.2 10.1 -2 Minimum 10.4 12.4 -2.0 12.0 13.8 -1.8 7.2 10.1 -2 Ending 7.6 9.6 -2.0 7.0 9.0 -2.0 4.5 5.8 -1 Projected 205Q4 (kik-Weighted Asets (Shillons) - - - - - - - - - - - - - - - -	Common equity tier 1 capital ratio											
Minimum 8.2 10.1 -1.9 7.4 9.2 -1.8 4.6 NA N Ending 8.2 10.1 -1.9 8.5 11.0 -2.5 5.4 8.1 -2.2 Inding 10.4 1.2 1.1 -1.9 8.5 10.4 -1.9 5.4 8.1 -2.2 Totat rick-based capital ratio - - 1.2 13.8 -1.8 7.2 10.1 -2.2 Minimum 10.4 12.4 -2.0 12.0 13.3 -1.3 7.2 10.1 -2.2 Inding 7.6 9.6 -2.0 7.0 9.1 -2.1 4.5 5.8 -1 Minimum 7.6 9.6 -2.0 7.0 9.0 -2.0 4.8 NR		8.2	10.1	-1.9	7.4	9.8	-2.4	4.6	NA	NA		
Ending 8.2 10.1 -1.9 8.5 11.0 -2.5 5.4 8.1 -2.7 Total risk-based capital ratio -	Minimum	8.2	10.1	-1.9	7.4	9.2	-1.8	4.6	NA	NA		
Minimum 8.2 10.1 -1.9 8.5 10.4 -1.9 5.4 8.1 -2.7 Total risk-based capital ratio Image 10.4 12.4 -2.0 12.0 13.8 -1.8 7.2 10.1 -2.2 Minimum 10.4 12.4 -2.0 12.0 13.3 -1.3 7.2 10.1 -2.2 Ending 7.6 9.6 -2.0 7.0 9.0 -2.0 4.5 5.8 -1 Projected 2015Q4 Risk-Weighted Asset (Sbillion) Eurent general approach 92.8 NR NA 116.6 1033.7 127.9 44.8 NR N Projected 2015Q4 Risk-Weighted Asset (Sbillion) Eurent general approach 97.4 NR NA 121.3 1157.2 54.1 47.6 NR	Tier 1 risk-based capital ratio											
Total risk-based capital ratio Image 10.4 12.4 2.0 12.0 13.3 -1.8 7.2 10.1 -2.2 Iminiuum 10.4 12.4 -2.0 12.0 13.3 -1.3 7.2 10.1 -2.2 Tier I leverage ratio	Ending	8.2	10.1	-1.9	8.5	11.0	-2.5	5.4	8.1	-2.7		
Ending 10.4 12.4 -2.0 12.0 13.8 -1.8 7.2 10.1 -2.2 Iminum 10.4 12.4 -2.0 12.0 13.3 -1.3 7.2 10.1 -2.7 Tier I leverage ratio	Minimum	8.2	10.1	-1.9	8.5	10.4	-1.9	5.4	8.1	-2.7		
Minimum 10.4 12.4 -2.0 12.0 13.3 -1.3 7.2 10.1 -2.2 Ter 1 leverage ratio	Total risk-based capital ratio											
Tier I leverage ratio Image 7.6 9.6 -2.0 7.0 9.1 -2.1 4.5 5.8 -1 Minimum 7.6 9.6 -2.0 7.0 9.0 -2.0 4.5 5.8 -1 Projected 2015Q4 Risk-Weighted Assets (Sbillions) <td< td=""><td>Ending</td><td>10.4</td><td>12.4</td><td>-2.0</td><td>12.0</td><td>13.8</td><td>-1.8</td><td>7.2</td><td>10.1</td><td>-2.9</td></td<>	Ending	10.4	12.4	-2.0	12.0	13.8	-1.8	7.2	10.1	-2.9		
Ending 7.6 9.6 -2.0 7.0 9.1 -2.1 4.5 5.8 -1 Minimum 7.6 9.6 -2.0 7.0 9.0 -2.0 4.5 5.8 -1 Projected 2015Q4 Risk-Weighted Assets (Sbillions) NR NA 1161.6 1033.7 127.9 44.8 NR N	Minimum	10.4	12.4	-2.0	12.0	13.3	-1.3	7.2	10.1	-2.9		
Ending 7.6 9.6 -2.0 7.0 9.1 -2.1 4.5 5.8 -1 Minimum 7.6 9.6 -2.0 7.0 9.0 -2.0 4.5 5.8 -1 Projected 2015Q4 Risk-Weighted Assets (Sbillions) NR NA 1161.6 1033.7 127.9 44.8 NR N												
Minimum 7.6 9.6 -2.0 7.0 9.0 -2.0 4.5 5.8 -1 Projected 2015Q4 Risk-Weighted Assets (Sbillions) NR NA 1161.6 1033.7 127.9 44.8 NR NR NR NA 1151.2 54.1 47.6 NR	,	7.6	9.6	-2.0	7.0	9.1	-2.1	4.5	5.8	-1.3		
Current general approach 92.8 NR NA 1161.6 1033.7 127.9 44.8 NR N Basel III standardized approach 97.4 NR NA 1211.3 1157.2 54.1 47.6 NR NR Projected Losses, Revenue, and Net Income before Taxes through 2015Q4 (\$billions, unless otherwise noted) PPPR 0.8 0.9 -0.1 50.7 51.8 -1.1 0.2 0.5 0.0 PPNR (% of avg, assets) 0.7 0.9 -0.2 3.3 NR NA 0.4 NR NR Other revenue 0.0		7.6	9.6	-2.0	7.0	9.0	-2.0	4.5	5.8	-1.3		
Current general approach 92.8 NR NA 1161.6 1033.7 127.9 44.8 NR N Basel III standardized approach 97.4 NR NA 1211.3 1157.2 54.1 47.6 NR NR Projected Losses, Revenue, and Net Income before Taxes through 2015Q4 (\$billions, unless otherwise noted) PPNR 0.8 0.9 -0.1 50.7 51.8 -1.1 0.2 0.5 0.0 PPNR (% of avg. assets) 0.7 0.9 -0.2 3.3 NR NA 0.4 NR NR Other revenue 0.0	Projected 2015O4 Risk-Weighted Ass	sets (\$billions)										
Basel III standardized approach 97.4 NR NA 1211.3 1157.2 54.1 47.6 NR N Projected Losses, Revenue, and Net Income before Taxes through 2015Q4 (Sbillions, unless otherwise noted) PNR 0.8 0.9 -0.1 50.7 51.8 -1.1 0.2 0.5 0.0 PPNR (% of avg. assets) 0.7 0.9 -0.2 3.3 NR NA 0.4 NR NR Other revenue 0.0			NR	NA	1161.6	1033.7	127.9	44.8	NR	NA		
PPNR 0.8 0.9 -0.1 50.7 51.8 -1.1 0.2 0.5 -0 PPNR (% of avg. assets) 0.7 0.9 -0.2 3.3 NR NA 0.4 NR NA Other revenue 0.0 0	•									NA		
PPNR 0.8 0.9 -0.1 50.7 51.8 -1.1 0.2 0.5 -0 PPNR (% of avg. assets) 0.7 0.9 -0.2 3.3 NR NA 0.4 NR NA Other revenue 0.0 0	Drainstad Lassas, Payanua, and Nat I	ncomo hoforo '	Taxas throw	-h 201504 (¢h	illions unloss	othonuico n	atad)					
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$								0.2	0.5	-0.3		
Other revenue 0.0 <												
less Provisions 4.1 2.8 1.3 61.6 45.9 15.7 2.8 2.1 0 Net charge-offs 3.4 1.9 1.5 55.1 26.8 28.3 2.5 1.8 0 Chg AlLL 0.7 0.9 -0.2 6.5 19.1 1.2.6 0.3 0.4 -0 Realized losses/gains on securities 0.4 0.1 0.3 1.2 2.6 -1.4 0.3 0.6 -0 AFS/HTM) - 7 -0.1 5.9 5.9 0.0 0.0 0.0 0 reduals Pre-tax NI -3.7 -2.3 -1.4 -20.5 -2.6 -17.9 -2.9 -2.3 -0 Pre-tax NI (% of avg. assets) -3.5 -2.2 -1.3 -1.3 NR NA -5.1 NR N Projected Loan Losses by Type of Loan for 2013Q4-2015Q4 (\$billions) - - - - - - - - -										0.0		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Net charge-offs 3.4 1.9 1.5 55.1 26.8 28.3 2.5 1.8 0.0 Chg, ALLL 0.7 0.9 -0.2 6.5 19.1 -12.6 0.3 0.4 -0.6 Realized losses/gains on securities 0.4 0.1 0.3 1.2 2.6 -1.4 0.3 0.6 -0 (AFS/HTM) Trading and counterparty losses 0.0 0.1 -0.1 5.9 5.9 0.0 0.0 0.0 0.0 Other losses/gains 0.0 0.2 -0.2 2.5 0.0 0.0 0.0 0.0 Pre-tax NI -3.7 -2.3 -1.4 -20.5 -2.6 -17.9 -2.9 -2.3 -0.0 Pre-tax NI (% of avg. assets) -3.5 -2.2 -1.3 $N.8$ $N.4$ -5.1 $N.8$ $N.6$ 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0		11	20	12	61.6	15.0	15 7	20	21	0.7		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										0.7		
Realized losses/gains on securities 0.4 0.1 0.3 1.2 2.6 -1.4 0.3 0.6 -0 (AFS/HTM) 0.0 0										-0.1		
(AFS/HTM) Trading and counterparty losses 0.0 0.1 -0.1 5.9 5.9 0.0 0.0 0.0 Other losses/gains 0.0 0.2 2.5 0.0 2.5 0.0 0.0 0.0 equals - - - 2.5 - 0.0 0.0 0.0 Pre-tax NI -3.7 -2.3 -1.4 -20.5 -2.6 -17.9 -2.9 -2.3 -0 Pre-tax NI (% of avg. assets) -3.5 -2.2 -1.3 -1.3 NR NA -5.1 NR NR Pre-tax NI (% of avg. assets) -3.5 -2.2 -1.3 -1.3 NR NA -5.1 NR NR Pre-tax NI (% of avg. assets) -3.5 -2.2 -1.3 -1.3 NR NA -5.1 NR NR NA Otal 1.3 4.1 1.5 5.1 26.8 28.3 2.5 1.8 0.0 Coll constroid and industrial 0.7 1.0 -0.3 9.4 4.6 4.8 0.7 0.5 0										-0.3		
Other losses/gains 0.0 0.2 -0.2 2.5 0.0 2.5 0.0 0.0 0.0 equals Pre-tax NI (% of avg. assets) -3.7 -2.3 -1.4 -20.5 -2.6 -17.9 -2.9 -2.3 -0 Pre-tax NI (% of avg. assets) -3.5 -2.2 -1.3 NR NA -5.1 NR NR Pre-tax NI (% of avg. assets) -3.5 -2.2 -1.3 NR NA -5.1 NR NR Pre-tax NI (% of avg. assets) -3.5 -2.2 -1.3 NT NR NA -5.1 NR NR Pre-tax NI (% of avg. assets) -3.5 -2.2 -1.3 NT NR NA -5.1 NR		0.4	0.1	0.5	1.2	2.0	-1.7	0.5	0.0	-0.5		
equals Pre-tax NI -3.7 -2.3 -2.3 -0 Pre-tax NI (% of avg. assets) -3.7 -2.3 -2.3 -0 Pre-tax NI (% of avg. assets) -3.5 -2.2 -1.3 NR NA -5.1 NR O O O NR NR NR NR NR NR Colspan="2">NR NR Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan= 2.0 O <th <<="" colspan="2" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.0</td></th>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0</td>											0.0
Pre-tax NI -3.7 -2.3 -1.4 -20.5 -2.6 -17.9 -2.9 -2.3 -0 Pre-tax NI (% of avg. assets) -3.5 -2.2 -1.3 -1.3 NR NA -5.1 NR N Projected Loan Losses by Type of Loan for 2013Q4-2015Q4 (\$billions) - 2.5 1.8 0 First lien mortgages, domestic 0.8 0.1 0.7 15.7 4.5 11.2 0.0 0.1 -0.0 Junior liens and HELOCs, domestic 0.1 0.1 0.0 8.5 4.5 4.0 0.1 0.1 0.0 Commercial and industrial 0.7 1.0 -0.3 9.4 4.6 4.8 0.7 0.5 0 0 0 0 0 0 0 0 0 0 0 0 0	Other losses/gains	0.0	0.2	-0.2	2.5	0.0	2.5	0.0	0.0	0.0		
Pre-tax NI (% of avg. assets) -3.5 -2.2 -1.3 -1.3 NR NA -5.1 NR N Projected Loan Losses by Type of Loan for 2013Q4-2015Q4 (\$billions) - - - - - - - - - - - NR NG 0.0 0.0 0.1 0.1 0.0 OC OC OC OC	equals											
Projected Loan Losses by Type of Loan for 2013Q4-2015Q4 (\$billions) Total 3.4 1.9 1.5 55.1 26.8 28.3 2.5 1.8 0 First lien mortgages, domestic 0.8 0.1 0.7 15.7 4.5 11.2 0.0 0.1 -0 Junior liens and HELOCs, domestic 0.1 0.1 0.0 8.5 4.5 4.0 0.1 0.1 0 Commercial real estate, domestic 1.5 0.4 1.1 9.4 3.6 5.8 1.5 1.0 0 Credit cards 0.0 0.0 0.4 2.2 4.4 -0.2 0.0 0.0 0	Pre-tax NI	-3.7	-2.3	-1.4	-20.5	-2.6	-17.9	-2.9	-2.3	-0.6		
Total 3.4 1.9 1.5 55.1 26.8 28.3 2.5 1.8 0 First lien mortgages, domestic 0.8 0.1 0.7 15.7 4.5 11.2 0.0 0.1 -0 Junior liens and HELOCs, domestic 0.1 0.1 0.0 8.5 4.5 4.0 0.1 0.1 0.0 Commercial and industrial 0.7 1.0 -0.3 9.4 4.6 4.8 0.7 0.5 00 Commercial real estate, domestic 1.5 0.4 1.1 9.4 3.6 5.8 1.5 1.0 00 Credit cards 0.0 0.0 0.0 4.2 4.4 -0.2 0.0 0	Pre-tax NI (% of avg. assets)	-3.5	-2.2	-1.3	-1.3	NR	NA	-5.1	NR	NA		
Total 3.4 1.9 1.5 55.1 26.8 28.3 2.5 1.8 0 First lien mortgages, domestic 0.8 0.1 0.7 15.7 4.5 11.2 0.0 0.1 -0 Junior liens and HELOCs, domestic 0.1 0.1 0.0 8.5 4.5 4.0 0.1 0.1 0.0 Commercial and industrial 0.7 1.0 -0.3 9.4 4.6 4.8 0.7 0.5 00 Commercial real estate, domestic 1.5 0.4 1.1 9.4 3.6 5.8 1.5 1.0 00 Credit cards 0.0 0.0 0.0 4.2 4.4 -0.2 0.0 0.0 00 Other consumer 0.0 0.0 0.0 5.0 4.3 0.7 0.0 0.0 00 Other loans 0.3 0.2 0.1 2.9 0.9 2.0 0.1 0.1 0 Total 5.0 2.8	Projected Loan Losses by Type of Loa	n for 2013Q4-	2015Q4 (\$b	illions)								
Junior liens and HELOCs, domestic0.10.10.08.54.54.00.10.10.10Commercial and industrial0.71.0-0.39.44.64.80.70.50Commercial real estate, domestic1.50.41.19.43.65.81.51.00Credit cards0.00.00.04.24.4-0.20.00.000Other consumer0.00.00.05.04.30.70.00.000Other loans0.30.20.12.90.92.00.10.10Projected Loan Losses by Type of Loan for 2013Q4-2015Q4 (%)Total5.02.82.26.83.43.46.64.81First lien mortgages, domestic3.20.62.66.72.04.70.81.6-0Junior liens and HELOCs, domestic3.23.8-0.69.86.13.75.03.811Commercial and industrial3.95.0-1.16.02.93.16.74.911Commercial real estate, domestic10.13.26.97.93.14.88.35.922Credit cards0.00.00.016.416.6-0.216.216.000Other consumer13.218.0-4.85.74.90.8					55.1	26.8	28.3	2.5	1.8	0.7		
Junior liens and HELOCs, domestic0.10.10.08.54.54.00.10.10.10Commercial and industrial0.71.0-0.39.44.64.80.70.50Commercial real estate, domestic1.50.41.19.43.65.81.51.00Credit cards0.00.00.04.24.4-0.20.00.000Other consumer0.00.00.05.04.30.70.00.000Other loans0.30.20.12.90.92.00.10.10Projected Loan Losses by Type of Loan for 2013Q4-2015Q4 (%)Total5.02.82.26.83.43.46.64.81First lien mortgages, domestic3.20.62.66.72.04.70.81.6-0Junior liens and HELOCs, domestic3.23.8-0.69.86.13.75.03.811Commercial and industrial3.95.0-1.16.02.93.16.74.911Commercial real estate, domestic10.13.26.97.93.14.88.35.922Credit cards0.00.00.016.416.6-0.216.216.000Other consumer13.218.0-4.85.74.90.8	First lien mortgages, domestic	0.8	0.1	0.7	15.7	4.5	11.2	0.0	0.1	-0.1		
Commercial real estate, domestic 1.5 0.4 1.1 9.4 3.6 5.8 1.5 1.0 0 Credit cards 0.0 0.0 0.0 4.2 4.4 -0.2 0.0 0.0 0 Other consumer 0.0 0.0 0.0 5.0 4.3 0.7 0.0 0.0 0 Other loans 0.3 0.2 0.1 2.9 0.9 2.0 0.1 0.1 0 Projected Loan Losses by Type of Loan for 2013Q4-2015Q4 (%) Total 5.0 2.8 2.2 6.8 3.4 3.4 6.6 4.8 1 First lien mortgages, domestic 3.2 0.6 2.6 6.7 2.0 4.7 0.8 1.6 -0 Junior liens and HELOCs, domestic 3.2 3.8 -0.6 9.8 6.1 3.7 5.0 3.8 1 Commercial real estate, domestic 10.1 3.2 6.9 7.9 3.1 4.8 8.3 5.9 2 Credit cards 0.0 0.0 0.0 16.4 <td< td=""><td></td><td></td><td></td><td>0.0</td><td></td><td></td><td></td><td></td><td></td><td>0.0</td></td<>				0.0						0.0		
Credit cards 0.0 0.0 0.0 4.2 4.4 -0.2 0.0 0.0 0.0 Other consumer 0.0 0.0 0.0 5.0 4.3 0.7 0.0 0.0 0.0 Other loans 0.3 0.2 0.1 2.9 0.9 2.0 0.1 0.1 0 Projected Loan Losses by Type of Loan for 2013Q4-2015Q4 (%) Total 5.0 2.8 2.2 6.8 3.4 3.4 6.6 4.8 1 First lien mortgages, domestic 3.2 0.6 2.6 6.7 2.0 4.7 0.8 1.6 -0 Junior liens and HELOCs, domestic 3.2 3.8 -0.6 9.8 6.1 3.7 5.0 3.8 1 Commercial and industrial 3.9 5.0 -1.1 6.0 2.9 3.1 6.7 4.9 1 Commercial real estate, domestic 10.1 3.2 6.9 7.9 3.1 4.8 8.3 5.9 2	Commercial and industrial	0.7	1.0	-0.3	9.4	4.6	4.8	0.7	0.5	0.2		
Other consumer 0.0 0.0 0.0 5.0 4.3 0.7 0.0 0.0 0.0 Other loans 0.3 0.2 0.1 2.9 0.9 2.0 0.1 0.1 0.0 Projected Loan Losses by Type of Loan for 2013Q4-2015Q4 (%) 7 0.0 0.1 0.1 0.0 Total 5.0 2.8 2.2 6.8 3.4 3.4 6.6 4.8 1 First lien mortgages, domestic 3.2 0.6 2.6 6.7 2.0 4.7 0.8 1.6 -0 Junior liens and HELOCs, domestic 3.2 3.8 -0.6 9.8 6.1 3.7 5.0 3.8 1 Commercial and industrial 3.9 5.0 -1.1 6.0 2.9 3.1 6.7 4.9 1 Commercial real estate, domestic 10.1 3.2 6.9 7.9 3.1 4.8 8.3 5.9 2 Credit cards 0.0 0.0 0.0 16.4<	Commercial real estate, domestic	1.5	0.4	1.1	9.4	3.6	5.8	1.5	1.0	0.6		
Other loans 0.3 0.2 0.1 2.9 0.9 2.0 0.1 0.1 0 Projected Loan Losses by Type of Loan for 2013Q4-2015Q4 (%) Total 5.0 2.8 2.2 6.8 3.4 3.4 6.6 4.8 1 First lien mortgages, domestic 3.2 0.6 2.6 6.7 2.0 4.7 0.8 1.6 -0 Junior liens and HELOCs, domestic 3.2 3.8 -0.6 9.8 6.1 3.7 5.0 3.8 1 Commercial and industrial 3.9 5.0 -1.1 6.0 2.9 3.1 6.7 4.9 1 Commercial real estate, domestic 10.1 3.2 6.9 7.9 3.1 4.8 8.3 5.9 2 Credit cards 0.0 0.0 0.0 16.4 16.6 -0.2 16.2 16.0 0 Other consumer 13.2 18.0 -4.8 5.7 4.9 0.8 10.7 8.4 2	Credit cards	0.0	0.0	0.0	4.2	4.4	-0.2	0.0	0.0	0.0		
Projected Loan Losses by Type of Loan for 2013Q4-2015Q4 (%) Total 5.0 2.8 2.2 6.8 3.4 3.4 6.6 4.8 1 First lien mortgages, domestic 3.2 0.6 2.6 6.7 2.0 4.7 0.8 1.6 -0 Junior liens and HELOCs, domestic 3.2 3.8 -0.6 9.8 6.1 3.7 5.0 3.8 1 Commercial and industrial 3.9 5.0 -1.1 6.0 2.9 3.1 6.7 4.9 1 Commercial real estate, domestic 10.1 3.2 6.9 7.9 3.1 4.8 8.3 5.9 2 Credit cards 0.0 0.0 0.0 16.4 16.6 -0.2 16.2 16.0 0 Other consumer 13.2 18.0 -4.8 5.7 4.9 0.8 10.7 8.4 2	Other consumer	0.0	0.0	0.0	5.0	4.3	0.7	0.0	0.0	0.0		
Total5.02.82.26.83.43.46.64.81First lien mortgages, domestic3.20.62.66.72.04.70.81.6-0Junior liens and HELOCs, domestic3.23.8-0.69.86.13.75.03.81Commercial and industrial3.95.0-1.16.02.93.16.74.91Commercial real estate, domestic10.13.26.97.93.14.88.35.92Credit cards0.00.00.016.416.6-0.216.216.00Other consumer13.218.0-4.85.74.90.810.78.42	Other loans	0.3	0.2	0.1	2.9	0.9	2.0	0.1	0.1	0.0		
Total5.02.82.26.83.43.46.64.81First lien mortgages, domestic3.20.62.66.72.04.70.81.6-0Junior liens and HELOCs, domestic3.23.8-0.69.86.13.75.03.81Commercial and industrial3.95.0-1.16.02.93.16.74.91Commercial real estate, domestic10.13.26.97.93.14.88.35.92Credit cards0.00.00.016.416.6-0.216.216.00Other consumer13.218.0-4.85.74.90.810.78.42	Projected Loan Losses by Type of Loa	n for 201304-	201504 (%)								
First lien mortgages, domestic3.20.62.66.72.04.70.81.6-0Junior liens and HELOCs, domestic3.23.8-0.69.86.13.75.03.81Commercial and industrial3.95.0-1.16.02.93.16.74.91Commercial real estate, domestic10.13.26.97.93.14.88.35.92Credit cards0.00.00.016.416.6-0.216.216.00Other consumer13.218.0-4.85.74.90.810.78.42					6.8	3.4	3.4	6.6	4.8	1.8		
Junior liens and HELOCs, domestic3.23.8-0.69.86.13.75.03.81Commercial and industrial3.95.0-1.16.02.93.16.74.91Commercial real estate, domestic10.13.26.97.93.14.88.35.92Credit cards0.00.00.016.416.6-0.216.216.00Other consumer13.218.0-4.85.74.90.810.78.42										-0.8		
Commercial and industrial3.95.0-1.16.02.93.16.74.91Commercial real estate, domestic10.13.26.97.93.14.88.35.92Credit cards0.00.00.016.416.6-0.216.216.00Other consumer13.218.0-4.85.74.90.810.78.42	00;									1.2		
Commercial real estate, domestic10.13.26.97.93.14.88.35.92Credit cards0.00.00.016.416.6-0.216.216.00Other consumer13.218.0-4.85.74.90.810.78.42										1.8		
Credit cards 0.0 0.0 0.0 16.4 16.6 -0.2 16.2 16.0 0 Other consumer 13.2 18.0 -4.8 5.7 4.9 0.8 10.7 8.4 2										2.4		
Other consumer 13.2 18.0 -4.8 5.7 4.9 0.8 10.7 8.4 2										0.2		
										2.3		
Other loans 3.9 3.5 0.4 2.9 1.0 1.9 4.8 4.1 0										0.7		

© 2014 Moody's Corporation, Moody's Investors Service, Inc., Moody's Analytics, Inc. and/or their licensors and affiliates (collectively, "MOODY'S"). All rights reserved.

CREDIT RATINGS ISSUED BY MOODY'S INVESTORS SERVICE, INC. ("MIS") AND ITS AFFILIATES ARE MOODY'S CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES, AND CREDIT RATINGS AND RESEARCH PUBLICATIONS PUBLISHED BY MOODY'S ("MOODY'S PUBLICATIONS") MAY INCLUDE MOODY'S CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES. MOODY'S DEFINES CREDIT RISK AS THE RISK THAT AN ENTITY MAY NOT MEET ITS CONTRACTUAL, FINANCIAL OBLIGATIONS AS THEY COME DUE AND ANY ESTIMATED FINANCIAL LOSS IN THE EVENT OF DEFAULT. CREDIT RATINGS DO NOT ADDRESS ANY OTHER RISK, INCLUDING BUT NOT LIQUIDITY RISK, MARKET VALUE RISK, OR PRICE VOLATILITY. CREDIT RATINGS AND MOODY'S OPINIONS INCLUDED IN MOODY'S PUBLICATIONS ARE NOT STATEMENTS OF CURRENT OR HISTORICAL FACT. MOODY'S PUBLICATIONS MAY ALSO INCLUDE QUANTITATIVE MODEL-BASED ESTIMATES OF CREDIT RISK AND RELATED OPINIONS OR COMMENTARY PUBLISHED BY MOODY'S ANALYTICS, INC. CREDIT RATINGS AND MOODY'S PUBLICATIONS DO NOT CONSTITUTE OR PROVIDE INVESTMENT OR FINANCIAL ADVICE, AND CREDIT RATINGS AND MOODY'S PUBLICATIONS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. NEITHER CREDIT RATINGS AND MOODY'S PUBLICATIONS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. NEITHER CREDIT RATINGS AND MOODY'S PUBLICATIONS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. NEITHER CREDIT RATINGS AND MOODY'S PUBLICATIONS WITH THE EXPECTATION AND UNDERSTANDING THAT EACH INVESTOR WILL, WITH DUE CARE, MAKE ITS OWN STUDY AND EVALUATION OF FACH SECURITY THAT IS UNDER CONSIDERATION FOR PURCHASE, HOLDING, OR SALE.

MOODY'S CREDIT RATINGS AND MOODY'S PUBLICATIONS ARE NOT INTENDED FOR USE BY RETAIL INVESTORS AND IT WOULD BE RECKLESS FOR RETAIL INVESTORS TO CONSIDER MOODY'S CREDIT RATINGS OR MOODY'S PUBLICATIONS IN MAKING ANY INVESTMENT DECISION. IF IN DOUBT YOU SHOULD CONTACT YOUR FINANCIAL OR OTHER PROFESSIONAL ADVISER.

ALL INFORMATION CONTAINED HEREIN IS PROTECTED BY LAW, INCLUDING BUT NOT LIMITED TO, COPYRIGHT LAW, AND NONE OF SUCH INFORMATION MAY BE COPIED OR OTHERWISE REPRODUCED, REPACKAGED, FURTHER TRANSMITTED, TRANSFERRED, DISSEMINATED, REDISTRIBUTED OR RESOLD, OR STORED FOR SUBSEQUENT USE FOR ANY SUCH PURPOSE, IN WHOLE OR IN PART, IN ANY FORM OR MANNER OR BY ANY MEANS WHATSOEVER, BY ANY PERSON WITHOUT MOODY'S PRIOR WRITTEN CONSENT.

All information contained herein is obtained by MOODY'S from sources believed by it to be accurate and reliable. Because of the possibility of human or mechanical error as well as other factors, however, all information contained herein is provided "AS IS" without warranty of any kind. MOODY'S adopts all necessary measures so that the information it uses in assigning a credit rating is of sufficient quality and from sources MOODY'S considers to be reliable including, when appropriate, independent third-party sources. However, MOODY'S is not an auditor and cannot in every instance independently verify or validate information received in the rating process or in preparing the Moody's Publications.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability to any person or entity for any indirect, special, consequential, or incidental losses or damages whatsoever arising from or in connection with the information contained herein or the use of or inability to use any such information, even if MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers is advised in advance of the possibility of such losses or damages, including but not limited to: (a) any loss of present or prospective profits or (b) any loss or damage arising where the relevant financial instrument is not the subject of a particular credit rating assigned by MOODY'S.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability for any direct or compensatory losses or damages caused to any person or entity, including but not limited to by any negligence (but excluding fraud, willful misconduct or any other type of liability that, for the avoidance of doubt, by law cannot be excluded) on the part of, or any contingency within or beyond the control of, MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers, arising from or in connection with the information contained herein or the use of or inability to use any such information.

NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, TIMELINESS, COMPLETENESS, MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF ANY SUCH RATING OR OTHER OPINION OR INFORMATION IS GIVEN OR MADE BY MOODY'S IN ANY FORM OR MANNER WHATSOEVER.

MIS, a wholly-owned credit rating agency subsidiary of Moody's Corporation ("MCO"), hereby discloses that most issuers of debt securities (including corporate and municipal bonds, debentures, notes and commercial paper) and preferred stock rated by MIS have, prior to assignment of any rating, agreed to pay to MIS for appraisal and rating services rendered by it fees ranging from \$1,500 to approximately \$2,500,000. MCO and MIS also maintain policies and procedures to address the independence of MIS's ratings and rating processes. Information regarding certain affiliations that may exist between directors of MCO and rated entities, and between entities who hold ratings from MIS and have also publicly reported to the SEC an ownership interest in MCO of more than 5%, is posted annually at www.moodys.com under the heading "Shareholder Relations — Corporate Governance — Director and Shareholder Affiliation Policy."

For Australia only: Any publication into Australia of this document is pursuant to the Australian Financial Services License of MOODY'S affiliate, Moody's Investors Service Pty Limited ABN 61 003 399 657AFSL 336969 and/or Moody's Analytics Australia Pty Ltd ABN 94 105 136 972 AFSL 383569 (as applicable). This document is intended to be provided only to "wholesale clients" within the meaning of section 761G of the Corporations Act 2001. By continuing to access this document from within Australia, you represent to MOODY'S that you are, or are accessing the document as a representative of, a "wholesale client" and that neither you nor the entity you represent will directly or indirectly disseminate this document or its contents to "retail clients" within the meaning of section 761G of the issuer or any form of security that is available to retail clients. It would be dangerous for "retail clients" to make any investment decision based on MOODY'S redit rating. If in doubt you should contact your financial or other professional adviser.