

Interest Rate Risk Monitor

Ver 4.0 R7



Sample Bank

Anywhere, USA, xx

March 2022

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Summary ALCO - Asset/Liability Mix

Sample Bank - Anywhere, USA, xx

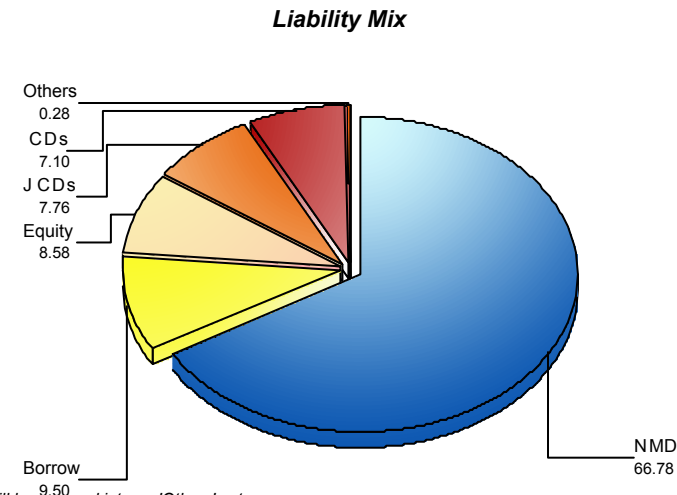
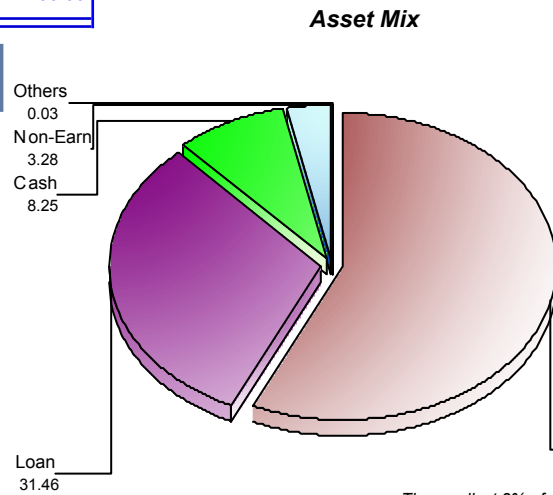
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Balances (\$000's)	Book Value	% of Book TA	Total is % of Segment			**Rate Sensitive < 1 Year	*Book Yield/Rate	*Reinv. Rate	Full Indx. Rate	*12 Mo. Proj. Yield/Rate	Avg. Life	Effective Duration	Effective Convexity
			Fixed	Var.	Non Int.								
Cash & Due	\$130,011	8.25		89.04	10.96	89.04	0.50	0.50 / 0.50	0.50	0.04	0.03	(0.01)	
Investments <i>(Includes MTM)</i>	\$898,643	56.99	96.43	4.13	(0.55)	18.42	1.48 [Ⓢ]	2.17 / 1.72	1.70	4.96	3.82	(0.14)	
Funds Sold	\$406	0.03		100.00		100.00	0.34	0.34 / 0.34	0.34	0.04	0.00	0.00	
Loans	\$496,106	31.46	72.23	29.51	(1.74)	41.67	4.67	5.01 / 4.39	4.69	3.38	2.80	(0.24)	
Other Earning													
Non-Earning	\$51,663	3.28			100.00								
Total Assets	\$1,576,829	100.00	77.68	19.00	3.32	30.97	2.46	2.98 / 2.55	2.60	3.92	3.06	(0.16)	
Non-Maturing Deposits	\$1,052,965	66.78		67.87	32.13	4.67	0.15	0.15 / 0.15	0.15	7.31	6.04	0.58	
Certificates of Deposit	\$111,967	7.10	92.25	7.75	0.00	78.54	0.60	0.47 / 0.40	0.48	0.75	0.56	(0.16)	
Jumbo CDs	\$122,314	7.76	93.35	6.65		73.45	0.63	0.48 / 0.40	0.49	0.76	0.57	(0.17)	
Borrowed Funds	\$149,791	9.50	7.74	92.26		100.00	0.14	0.13 / 0.08	0.13	0.06	0.04	(0.02)	
Other Paying													
Non-Paying	\$4,490	0.28			100.00								
Total Liabilities	\$1,441,527	91.42	15.89	60.33	23.78	26.14	0.25	0.22 / 0.15	0.22	5.47	4.51	0.39	
Total Equity Capital	\$135,302	8.58									(1.05)	(0.51)	
Total Liab & Capital	\$1,576,829	100.00											

Liquidity Ratios	Constant	ALCO Benchmark
Investments / Deposits	69.81	< 70.00%
Loans / Deposits	38.54	< 80.00%
Loans / Assets	31.46	< 90.00%
Loans / Capital	366.67	< 800.00%
Net Borrowed Funds / Capital	110.41	< 200.00%
Reliance on Wholesale Funding	10.42	< 15.00%
Dependency Ratio	1.24	< 30.00%
Liquid Assets / TA	17.17	> 15.00%
Jumbo CDs / TA	7.76	< 15.00%
Available Line of Credit	\$271,186	

✓ Ratio is outside benchmark.



The smallest 2% of all categories will be grouped into an 'Others' category.

[Ⓢ] Investments using Accounting yield.

* Yields/Rates are reported on EA & PL.

Note: Values are rounded before printing, but full precision values are used in all calculations.

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** Percentages based on maturing, repricing, and paydown balances.

Summary ALCO - Gap Measures

Sample Bank - Anywhere, USA, xx

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Effective Gap (\$000's)	12 Month Cumulative	12 Month ALCO Benchmark	24 Month* Cumulative
RS Assets/RS Liabilities	129.62	70 to 130%	134.59
GAP	111,595		163,905
GAP/Equity	82.48	+/- 200%	121.14
RS Assets/Total Assets	30.97	30 to 70%	40.45
RS Liabs./Total Assets	23.89 ✓	30 to 70%	30.05
GAP/Total Assets	7.08	+/- 15%	10.39

Repricing Gap Position (\$000's)	12 Month Cumulative	12 Month ALCO Benchmark	24 Month* Cumulative
RS Assets/RS Liabilities	46.86 ✓	70 to 130%	58.79
GAP	(553,862)		(447,064)
GAP/Equity	(409.35) ✓	+/- 200%	(330.42)
RS Assets/Total Assets	30.97	30 to 70%	40.45
RS Liabs./Total Assets	66.10	30 to 70%	68.80
GAP/Total Assets	(35.13) ✓	+/- 15%	(28.35)

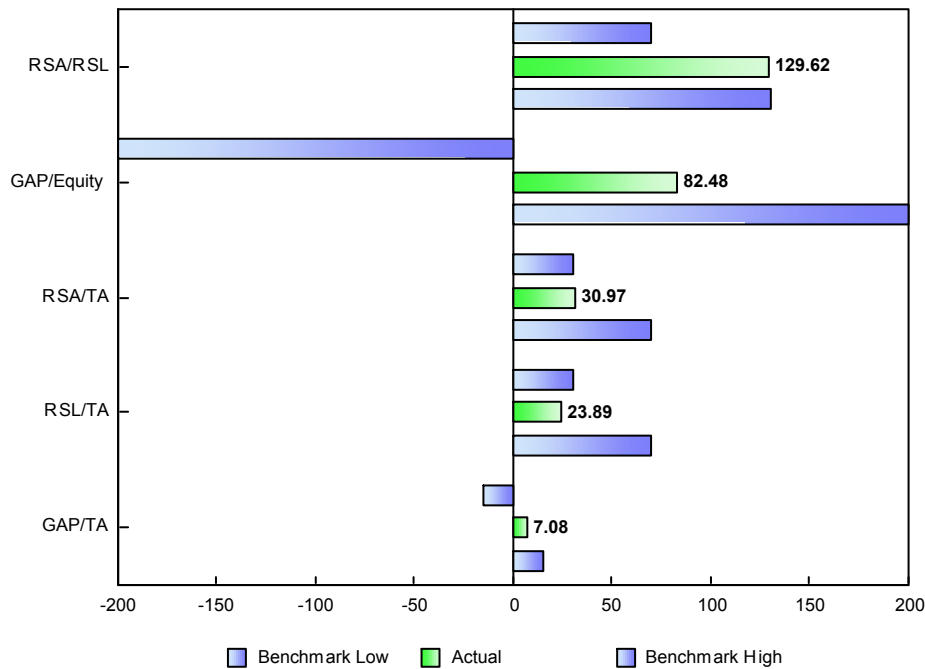
Effective Gap considers effective maturities of core deposits, it reports non-maturing demand accounts according to the preferred maturity distribution table.

✓ Ratio is outside benchmark.

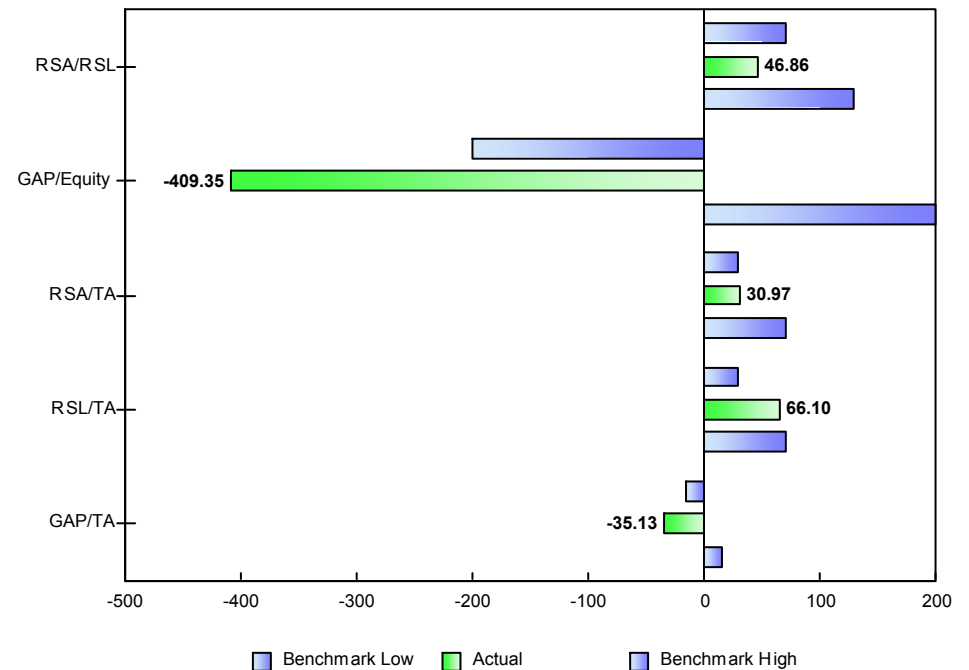
Repricing Gap does not consider effective maturities of core deposits, it reports non-maturing demand accounts according to repricing opportunity.

✓ Ratio is outside benchmark.

Cumulative Effective Gap Measures
12 Month Horizon



Cumulative Repricing Gap Measures
12 Month Horizon



* The 24 month period could be extended if the 24th month is in the middle of a bucket period.

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Summary ALCO - Earning Power Measures

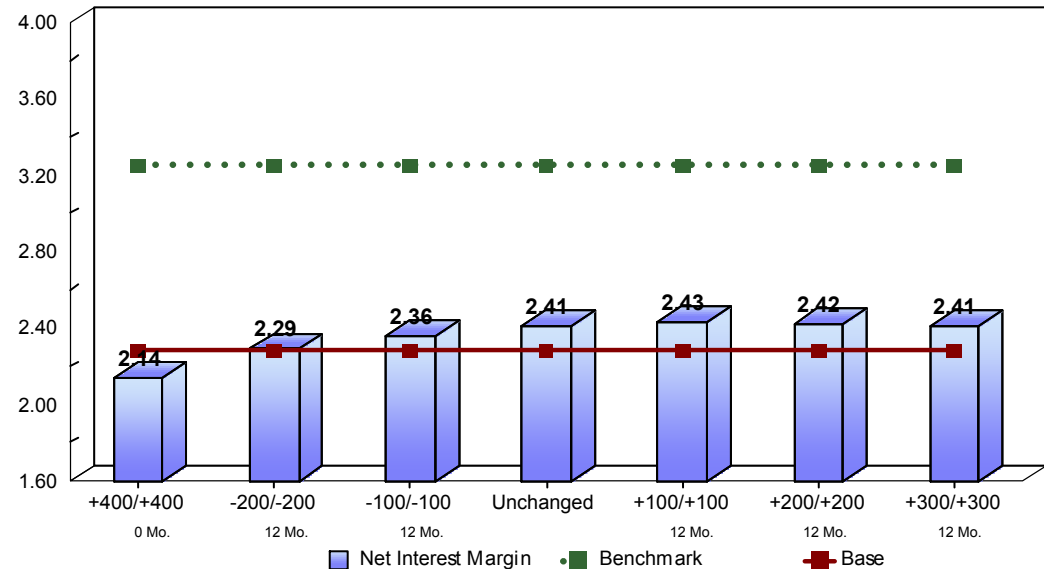
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Earning Power	YTD Annualized	Constant Balance Sheet *		YTD Annualized	Constant Balance Sheet	ALCO Benchmark
Interest Income:	\$38,394	\$37,543	Efficiency Ratio	64.38	66.21 ✓	< 65.00%
Tax Adjusted Interest Income: ①	\$38,394	\$37,543	Earning Assets/Paying Liab.		138.75	> 115.00%
Interest Expense:	\$2,733	\$2,710	Yield on Earning Assets (EA)		2.46	
Net Interest Income before Provision:	\$35,660	\$34,833	Rate on Paying Liabilities (PL)		0.25	
			Earning Interest Spread (difference)		2.21 ✓	> 2.75%
			Cost of Funds	0.17	0.17	
Net Interest Income:	\$35,660	\$34,833	Net Interest Margin	2.34 ✓	2.28 ✓	> 3.25%
			To break even the bank needs a margin of	1.31	1.31	
Non Interest Income:	\$9,012	\$9,012	To achieve a target of 1.00 ROA, the bank needs a Margin of ③	2.34	2.35	
Non Interest Expense:	\$29,028	\$29,028	To achieve a target of 12.00 ROE, the bank needs a Margin of	2.48	2.48	
Operating Income before G/L, Tax & Extra Items:	\$15,644	\$14,817				
Realized Gain/Loss + Extra Items: ②	\$0	\$0				
Taxes:	\$(580)	\$(652)				
Net Income(Loss):	\$15,064	\$14,165				
Available Line of Credit:	\$271,186					
Risk Weighted Assets:	\$611,830					
Avg. Earning Assets:	\$1,525,022					
Avg. Total Assets:	\$1,573,321					
Equity/Total Assets:	8.58 ✓					
Desired After Tax ROA:	1.00					
Desired After Tax ROE:	12.00					
Effective Tax Rate:	4.40%					
Marginal Tax Rate:	0.00%					
Taxable this year?	Yes					
OREO:	\$65					

Net Interest Margin per Rate Shift
12 Month Horizon



① Adjusted Interest Income is calculated using the Interest Income, Tax Exempt Income, and Marginal Tax Rate.

② Realized Gain & Extra Items are non-recurring events.

③ For YTD Annualized, if Average Total Assets or Average Earning Assets were entered, they will be used.

* Indicates which column is used for calculating base case.

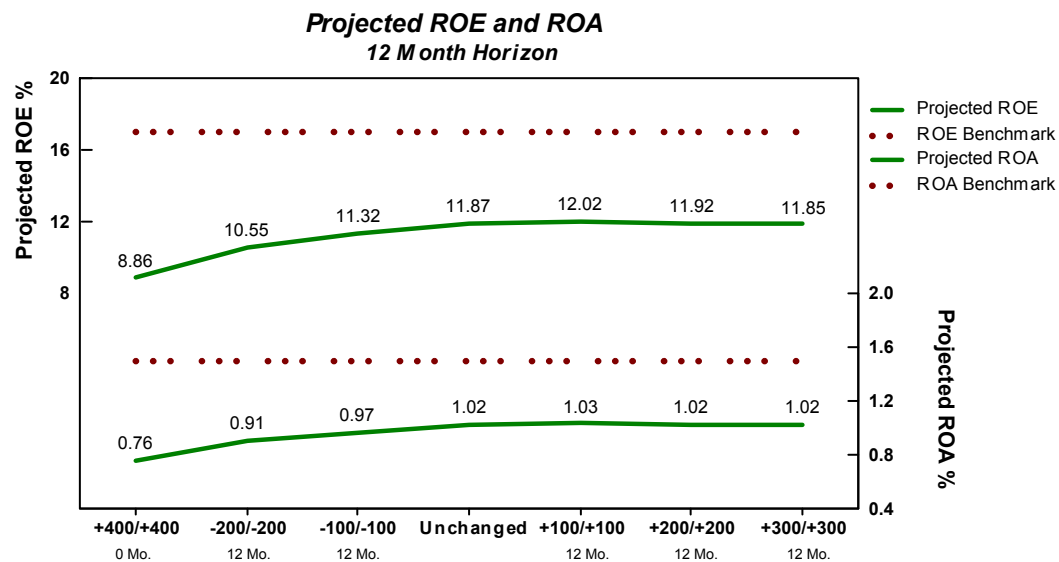
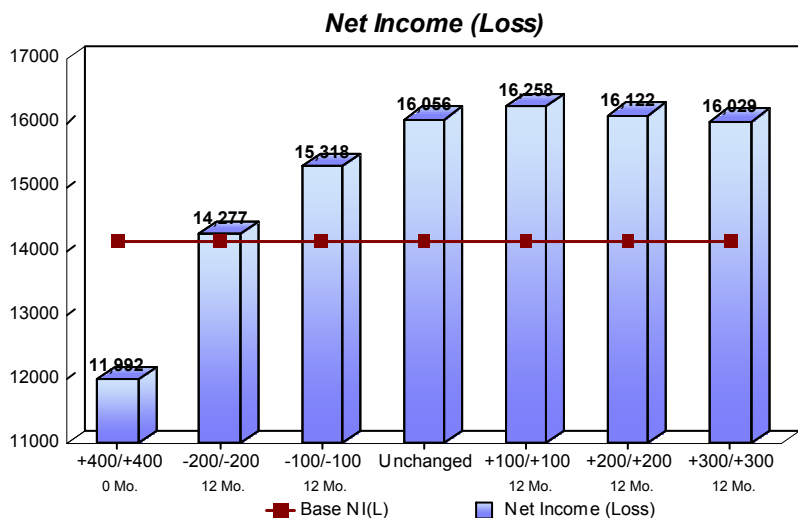
Summary ALCO - Earnings Simulation - 12 Month Horizon

Sample Bank - Anywhere, USA, xx

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Interest Rate Risk (\$'s)	YTD Annualized	Constant Balance Sheet **	Immediate	Parallel	Parallel	Unchanged Rate Scenario	Parallel	Parallel	Parallel
			+400/+400 bp (7) 0 Mo.	-200/-200 bp (2) 12 Mo.	-100/-100 bp (3) 12 Mo.		+100/+100 bp (5) 12 Mo.	+200/+200 bp (6) 12 Mo.	+300/+300 bp (7) 12 Mo.
12 Month Horizon in \$'s									
Change in Interest Income *	\$38,394	\$37,543	14,308,228	(1,207,725)	211,770	1,763,337	3,352,160	4,796,436	6,180,738
Change in Interest Expense	\$2,733	\$2,710	16,581,736	(1,324,424)	(994,431)	(214,333)	1,162,991	2,749,402	4,231,258
Net Interest Change			(2,273,508)	116,699	1,206,201	1,977,670	2,189,169	2,047,034	1,949,480
Projected Impact in \$000's									
Net Interest Income *	\$35,660	\$34,833	32,560	34,950	36,039	36,811	37,022	36,880	36,783
Net Interest Margin *	2.34	2.28	2.14 ✓	2.29 ✓	2.36 ✓	2.41 ✓	2.43 ✓	2.42 ✓	2.41 ✓
ALCO Benchmark	> 3.25%								
NIC as a % of NII			(6.53)	0.34	3.46	5.68	6.28	5.88	5.60
ALCO Risk Limits			> (20.00)%	> (20.00)%	> (15.00)%	> (10.00)%	> (15.00)%	> (20.00)%	> (20.00)%
Net Income (Loss)	\$15,064	\$14,165	11,992	14,277	15,318	16,056	16,258	16,122	16,029
Return on Assets	0.96	0.90	0.76 ✓	0.91 ✓	0.97 ✓	1.02 ✓	1.03 ✓	1.02 ✓	1.02 ✓
ALCO Benchmark	> 1.50%								
Return on Equity	11.13	10.47	8.86 ✓	10.55 ✓	11.32 ✓	11.87 ✓	12.02 ✓	11.92 ✓	11.85 ✓
ALCO Benchmark	> 17.00%								



* Income is tax adjusted and calculated before Provisions.

** Indicates which column is used for calculating base case.

(Short End = 1yr; Long End = 10yr)

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Summary ALCO - Earnings Simulation - 24 Month Horizon

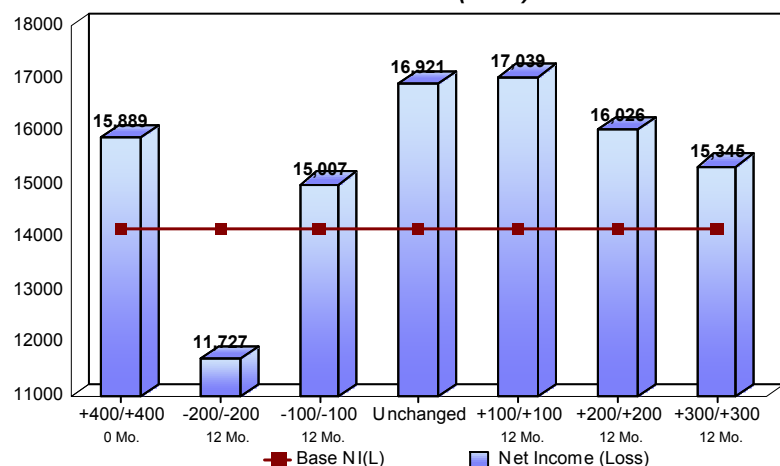
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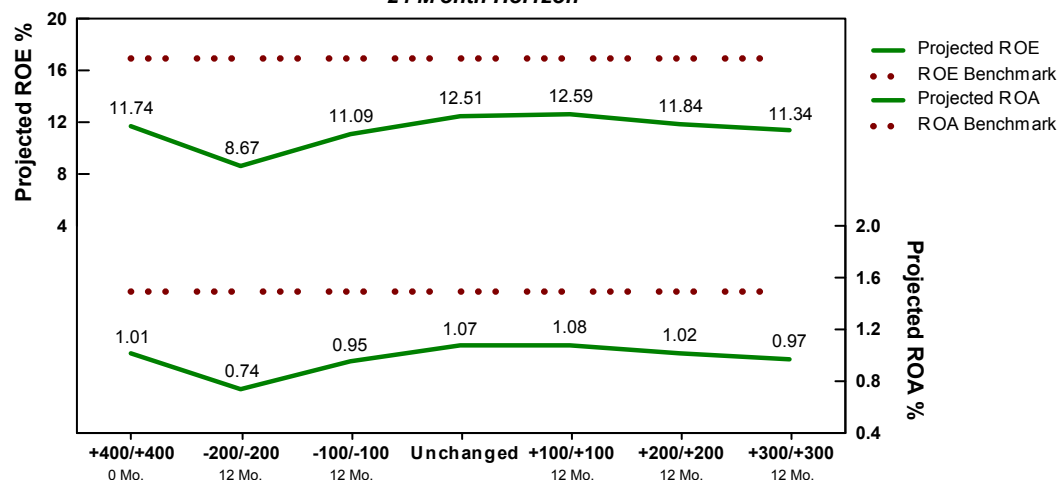
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Interest Rate Risk (\$'s) Shift Horizon	YTD Annualized	Constant Balance Sheet **	Immediate	Parallel	Parallel	Unchanged Rate Scenario	Parallel	Parallel	Parallel
			+400/+400 bp ⁽⁷⁾ 0 Mo.	-200/-200 bp ⁽²⁾ 12 Mo.	-100/-100 bp ⁽³⁾ 12 Mo.		+100/+100 bp ⁽⁵⁾ 12 Mo.	+200/+200 bp ⁽⁶⁾ 12 Mo.	+300/+300 bp ⁽⁷⁾ 12 Mo.
24 Month Horizon in \$'s									
Change in Interest Income *	\$38,394	\$37,543	36,334,994	(6,152,142)	(1,024,070)	4,325,734	10,262,172	15,855,386	21,243,266
Change in Interest Expense	\$2,733	\$2,710	36,805,573	(3,718,845)	(3,110,499)	(534,837)	5,067,188	11,861,662	18,059,912
Cumulative 24 Mo. NIC									
13-24 Mo. NIC									
			(470,579)	(2,433,297)	2,086,429	4,860,571	5,194,984	3,993,724	3,183,354
			1,802,929	(2,549,996)	880,228	2,882,901	3,005,815	1,946,690	1,233,874
13-24 Mo. Projected Impact in (\$000's)									
Net Interest Income *	\$35,660	\$34,833	36,636	32,283	35,713	37,716	37,839	36,780	36,067
Net Interest Margin *	2.34	2.28	2.40 ✓	2.12 ✓	2.34 ✓	2.47 ✓	2.48 ✓	2.41 ✓	2.37 ✓
ALCO Benchmark	> 3.25%								
NIC as a % of NII			5.18	(7.32)	2.53	8.28	8.63	5.59	3.54
ALCO Risk Limits			> (20.00)%	> (20.00)%	> (15.00)%	> (10.00)%	> (15.00)%	> (20.00)%	> (20.00)%
Net Income (Loss)	\$15,064	\$14,165	15,889	11,727	15,007	16,921	17,039	16,026	15,345
Return on Assets	0.96	0.90	1.01 ✓	0.74 ✓	0.95 ✓	1.07 ✓	1.08 ✓	1.02 ✓	0.97 ✓
ALCO Benchmark	> 1.50%								
Return on Equity	11.13	10.47	11.74 ✓	8.67 ✓	11.09 ✓	12.51 ✓	12.59 ✓	11.84 ✓	11.34 ✓
ALCO Benchmark	> 17.00%								

Net Income (Loss)



Projected ROE and ROA
24 Month Horizon



* Income is tax adjusted and calculated before Provisions.

** Indicates which column is used for calculating base case.

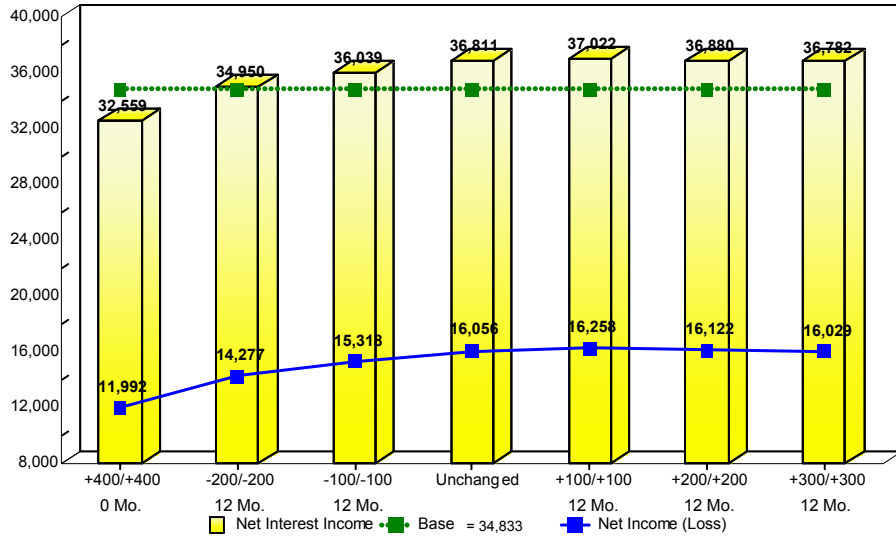
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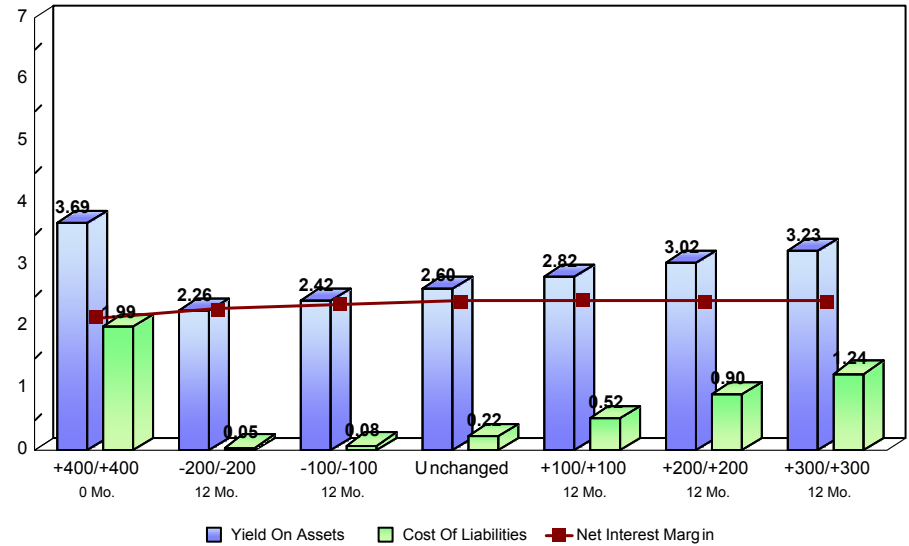
Summary ALCO - Income Analysis

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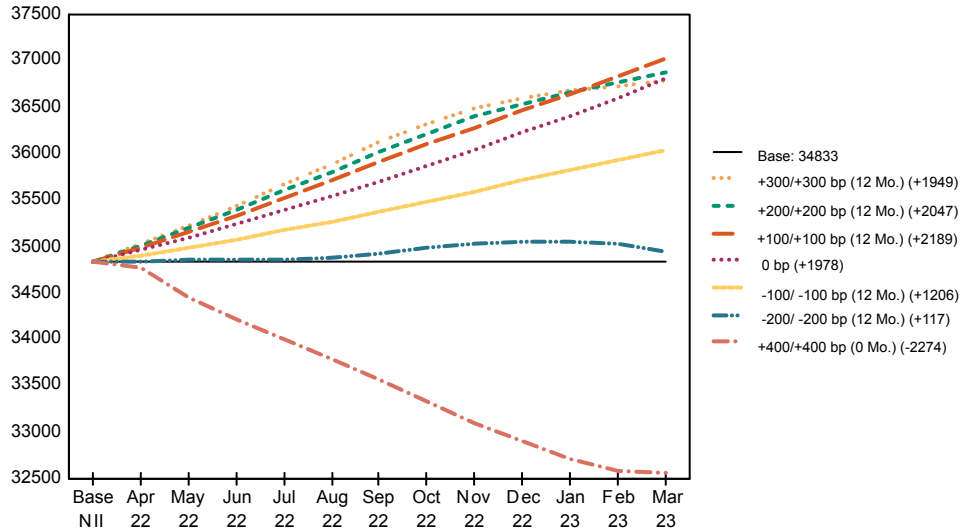
Income Projection - 12 month Horizon



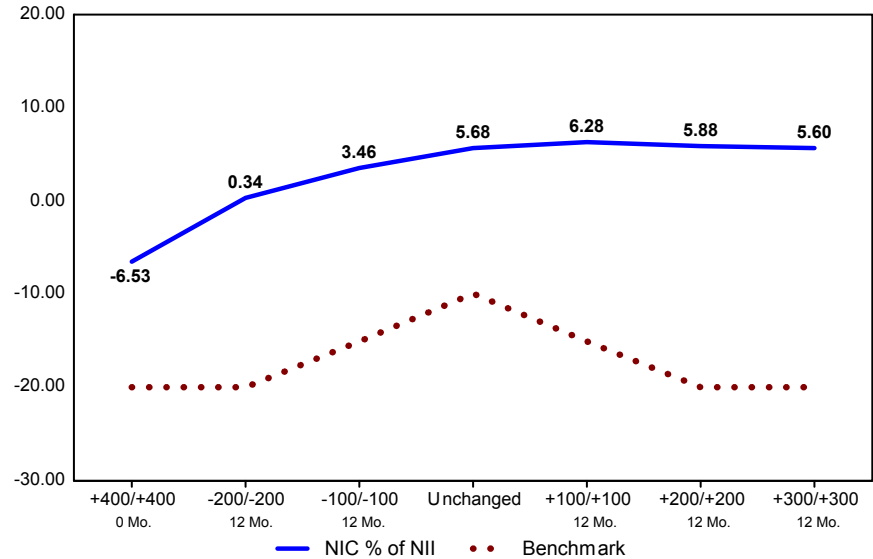
Projected Yields/Rates - 12 Month Horizon



**Net Interest Change (\$000's) per Time Bucket
Cumulative 12 Month**



**Net Interest Change as a % of Net Interest Income
12 Month Horizon**



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Economic Value of Equity (EVE)

Sample Bank - Anywhere, USA, xx

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Book Value	Assets	Risk Weighted Assets	Liabilities	Total Equity Capital	Tier 1 Capital	Tier 2 Capital	Total RBC
Total	1,576,829 *	611,830	1,441,527	135,302	140,480	7,648	148,128
as a % of TA		38.80	91.42	8.58 ✓	8.91		
as a % of RWA				22.11	22.96		24.21
Unadjusted BV	1,582,008						

* Adjusted Book Value includes MTM adjustment of (5,179)

Fair Value Rate Shock	Fair Value of Assets	Appreciation / (Depreciation)		Fair Value of Liab.	(Appreciation) / Depreciation		Fair Value of Equity
		\$	%		\$	%	
+300/+300 bp ⁽⁷⁾	1,381,098	(200,910)	(12.70)	1,184,307	(257,220)	(17.84)	196,791
+200/+200 bp ⁽⁶⁾	1,438,125	(143,883)	(9.09)	1,224,361	(217,166)	(15.06)	213,764
+100/+100 bp ⁽⁵⁾	1,491,326	(90,682)	(5.73)	1,266,551	(174,976)	(12.14)	224,775
Unchanged	1,540,148	(41,860)	(2.65)	1,318,962	(122,565)	(8.50)	221,186
-100/ -100 bp ⁽³⁾	1,584,223	2,215	0.14	1,381,108	(60,419)	(4.19)	203,115
-200/ -200 bp ⁽²⁾	1,613,777	31,769	2.01	1,443,109	1,582	0.11	170,668
+400/+400 bp ⁽⁷⁾	1,341,918	(240,090)	(15.18)	1,154,692	(286,835)	(19.90)	187,226

Fair Value of Equity Ratios Rate Shock	FV of Equity / FV of TA	FV of Equity / FV of RWA	Change in FV of Equity		
			\$	Change %	ALCO Benchmark %
+300/+300 bp ⁽⁷⁾	14.25	36.72	(24,395)	(11.03)	> -40.00 %
+200/+200 bp ⁽⁶⁾	14.86	38.31	(7,422)	(3.36)	> -30.00 %
+100/+100 bp ⁽⁵⁾	15.07	38.84	3,589	1.62	> -20.00 %
Unchanged	14.36	37.01			
-100/ -100 bp ⁽³⁾	12.82	33.04	(18,071)	(8.17)	> -20.00 %
-200/ -200 bp ⁽²⁾	10.58	27.26	(50,518)	(22.84)	> -30.00 %
+400/+400 bp ⁽⁷⁾	13.95	35.96	(33,960)	(15.35)	> -40.00 %

Note: Values are rounded before printing, but full precision values are used in all calculations.

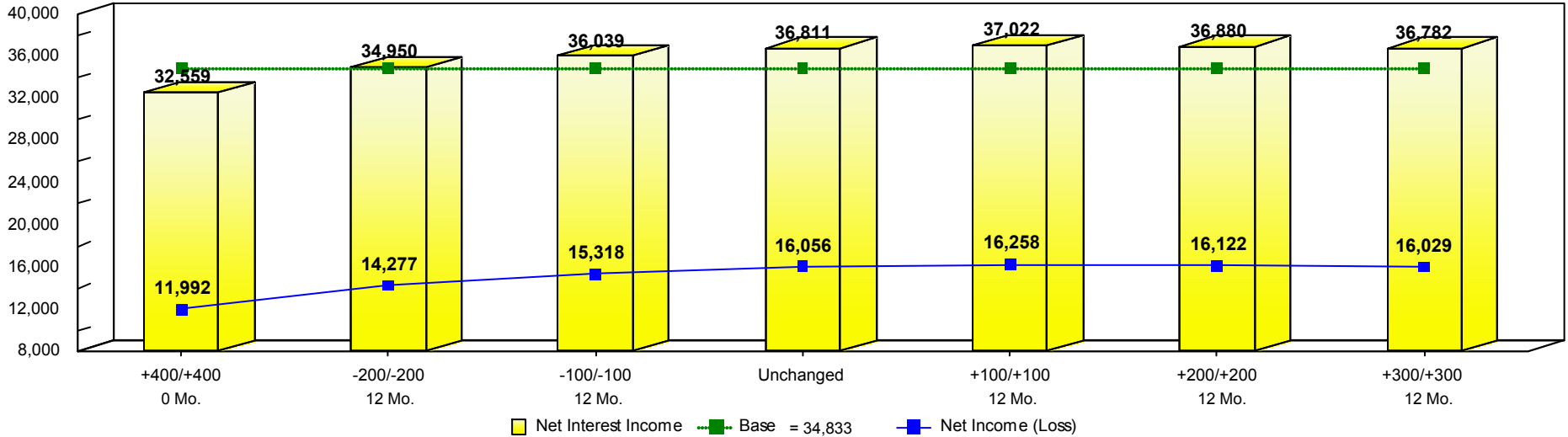
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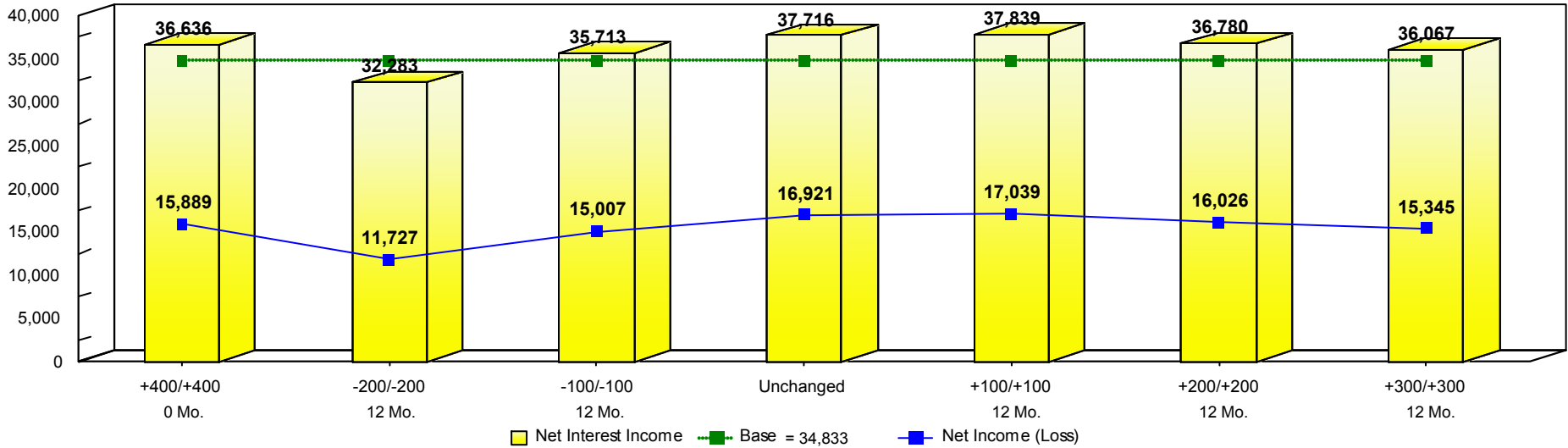
Income Projections

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12 Month Horizon (\$000's)



13 - 24 Month Horizon



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Summary Board Report - Benchmark Analysis

Sample Bank - Anywhere, USA, xx

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	Nov 2021	Dec 2021	Jan 2022	Feb 2022	Mar 2022	Benchmark
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Effective Gap:

RS Assets/RS Liabilities	137.33 ✓	136.67 ✓	120.02	128.31	129.62	70 to 130 %
GAP/Equity	95.35	93.38	53.24	78.16	82.48	+/- 200 %
RS Assets/Total Assets	31.95	31.34	29.14	30.66	30.97	30 to 70 %
RS Liabs./Total Assets	23.27 ✓	22.93 ✓	24.28 ✓	23.89 ✓	23.89 ✓	30 to 70 %
GAP/Total Assets	8.68	8.41	4.86	6.76	7.08	+/- 15 %

Earning Power:

Efficiency Ratio	71.76 ✓	71.91 ✓	70.25 ✓	70.66 ✓	66.21 ✓	< 65.00 %
Earning Assets/Paying Liab.	140.18	139.46	138.71	141.60	138.75	> 115.00
Earning Int. Spread (difference)	2.21 ✓	2.19 ✓	2.19 ✓	2.12 ✓	2.21 ✓	> 2.75
Net Interest Margin	2.29 ✓	2.26 ✓	2.26 ✓	2.19 ✓	2.28 ✓	> 3.25
Equity/Total Assets	9.11	9.00	9.13	8.66 ✓	8.58 ✓	> 9.00
Return on Assets	0.73 ✓	0.75 ✓	0.76 ✓	0.71 ✓	0.90 ✓	> 1.50
Return on Equity	8.02 ✓	8.34 ✓	8.30 ✓	8.25 ✓	10.47 ✓	> 17.00

Liquidity:

Investments / Deposits	67.60	67.67	70.51 ✓	68.20	69.81	< 70.00 %
Loans / Deposits	39.19	38.90	38.81	37.86	38.54	< 80.00 %
Loans / Assets	32.32	32.29	31.44	30.81	31.46	< 90.00 %
Loans / Capital	354.79	358.64	344.49	355.97	366.67	< 800.00 %
Net Borrowed Funds / Capital	87.87	84.16	103.51	110.57	110.41	< 200.00 %
Reliance on Wholesale Funding	8.87	8.38	10.47	10.55	10.42	< 15.00 %
Dependency Ratio	(1.37)	(0.50)	3.61	1.25	1.24	< 30.00 %
Liquid Assets / TA	17.57	16.75	15.31	17.29	17.17	> 15.00 %
Jumbo CDs / TA	7.69	8.14	7.79	7.73	7.76	< 15.00 %
Available Line of Credit	\$272,238	\$272,238	\$271,186	\$271,186	\$271,186	

Interest Rate Risk:

Rate Shift Scenarios

	Net Interest Change as a % of Net Interest Income	
+300/+300 bp	5.60	> -20.00 %
+200/+200 bp	5.88	> -20.00 %
+100/+100 bp	6.28	> -15.00 %
Unchanged	5.68	> -10.00 %
-100/ -100 bp	3.46	> -15.00 %
-200/ -200 bp	0.34	> -20.00 %
+400/+400 bp	(6.53)	> -20.00 %

	Change in Fair Value as a % of Equity	
+300/+300 bp	(11.03)	> -40.00 %
+200/+200 bp	(3.36)	> -30.00 %
+100/+100 bp	1.62	> -20.00 %
-100/ -100 bp	(8.17)	> -20.00 %
-200/ -200 bp	(22.84)	> -30.00 %
+400/+400 bp	(15.35)	> -40.00 %

Prior period checkmarks are based on current benchmarks.

Note: Values are rounded before printing, but full precision values are used in all calculations.

(Short End = 1yr; Long End = 10yr)

Although the information in this report has been obtained from sources believed to be reliable, its accuracy cannot be guaranteed.
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Interest Rate Risk Monitor

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