# A/L BENCHMARKS

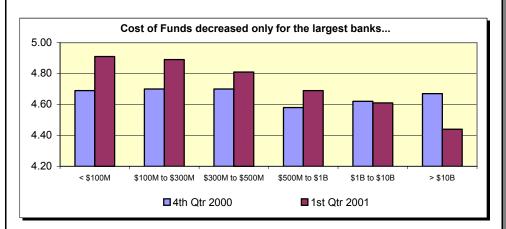
## **INDUSTRY REPORT**

Standards for Asset/Liability Management

#### Rates are falling, how have you responded?

During the first quarter of 2001 interest rates where falling, callable bonds were called, and fed funds sold increased. Rates began falling last summer (2000) and continued through March 31, 2001, although, short rates were falling the most.

The falling rates have produced several results. First, bond issuers and bank loan customers are taking advantage of the low rate situation. Callable bonds are being called and mortgages are being refinanced. The proceeds from the callable bonds have temporarily found their way into lower yielding short-term investments. As a result, bank yields are dropping.



Second, bankers should be dropping rates on deposit accounts to match the drop in yields. However, the data from A/L BENCHMARKS suggests that bank cost of funds has not dropped in the majority of banks. For the peer groups represented by banks under \$1 billion, the cost of funds actually rose.

Third, the declining yields and increasing cost of funds is squeezing net interest margin. This squeeze on net interest margin, particularly in community banks, suggests that competition for funding is intense and that community bankers are using higher rates for consumers to maintain funding levels. In addition to higher rates, bankers seem to be pricing to get customers to accept longer-term deposits, thus increasing the duration of funding liabilities.

For banks under \$500 Million, Net Interest Margin dropped by over 20 basis points.



(Continued on page 2)

## 1st Quarter 2001

#### About the Peer Information

All commercial US banks that file a call report are modeled using Olson Research's A/L Benchmarks<sup>®</sup> asset liability management model. This peer sample includes data from 6006 banks representing all 50 states, D.C. and other areas. All others have been eliminated due to reporting errors or anomalies.

The primary source of data is the call report as it is made publicly available by the FDIC. A/L Benchmarks also uses the FRY-9, security investment downloads, supplemental data supplied by bank management and modeling assumptions.

Assumptions are based upon historical bank data, industry norms, and supplemental information supplied by bankers.

This peer data is also available at http://www.olsonresearch.com where you can create custom peer groups.

It is the policy of Olson Research not to identify any banks by name or certificate numbers. This data is made available for comparative purposes only.

#### Contents

Capital Adequacy & Growth6Balance Sheet Mix8Asset Quality10Liquidity Risk12Interest Rate Risk14Regulatory Benchmarks16A/L Benchmarks Online20Glossary of Terms21About A/L BENCHMARKS24	Earnings Performance	4
Asset Quality10Liquidity Risk12Interest Rate Risk14Regulatory Benchmarks16A/L Benchmarks Online20Glossary of Terms21	Capital Adequacy & Growth	6
Liquidity Risk.12Interest Rate Risk.14Regulatory Benchmarks.16A/L Benchmarks Online.20Glossary of Terms.21	Balance Sheet Mix	8
Interest Rate Risk.14Regulatory Benchmarks.16A/L Benchmarks Online.20Glossary of Terms.21	Asset Quality	10
Regulatory Benchmarks16A/L Benchmarks Online20Glossary of Terms21	Liquidity Risk	12
A/L Benchmarks Online20Glossary of Terms21	Interest Rate Risk	14
Glossary of Terms 21	Regulatory Benchmarks	16
•	A/L Benchmarks Online	20
About A/L BENCHMARKS 24	Glossary of Terms	21
	About A/L BENCHMARKS	24



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#### (Continued from page 1)

Fourth, the higher cost of funds and the longer durations of liabilities keep the present value of liabilities high. The higher present value of liabilities means a lower value for the economic value of equity and more risk volatility as measured by the net interest margin at risk and the economic value of equity at risk.

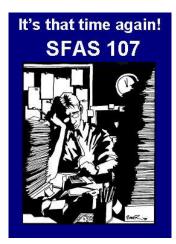
What is the current outlook for economic recovery? Slow, quick, or never? How would bank deposit customers respond to sliding bank rates? How should bankers react to the lower margins and increasing risks? How will community banks react to the current dilemmas?

One way is to sit tight and hope that rates will turn back up giving lending opportunities to increase yields. Another way is to buy longer term securities because rates at the longer end of the US Treasury yield curve have not dropped nearly as much as the short rates. (The yield premium for long maturities now appears larger than it has been during the past 5 years: the spread between the 90 day rate and the 30 year rate was 117 basis points on March 31, 2001 and moving higher as each day goes by.) Or, decide that accepting high cost deposits is not desirable if an investment in fed funds sold is the use for those funds.

With the current sluggishness in the economy, commercial lending could be slow to grow by growth rates experienced in recent years; new home construction could be slow to grow and new mortgage lending could be driven only by refinancing; and with consumer spending sluggish, consumer borrowing may not be a growing source of higher yield bank assets. Investing in securities at the long end of the maturity spectrum may be risky at the current low level of rates. And the deposit rate dilemma has no easy solution.

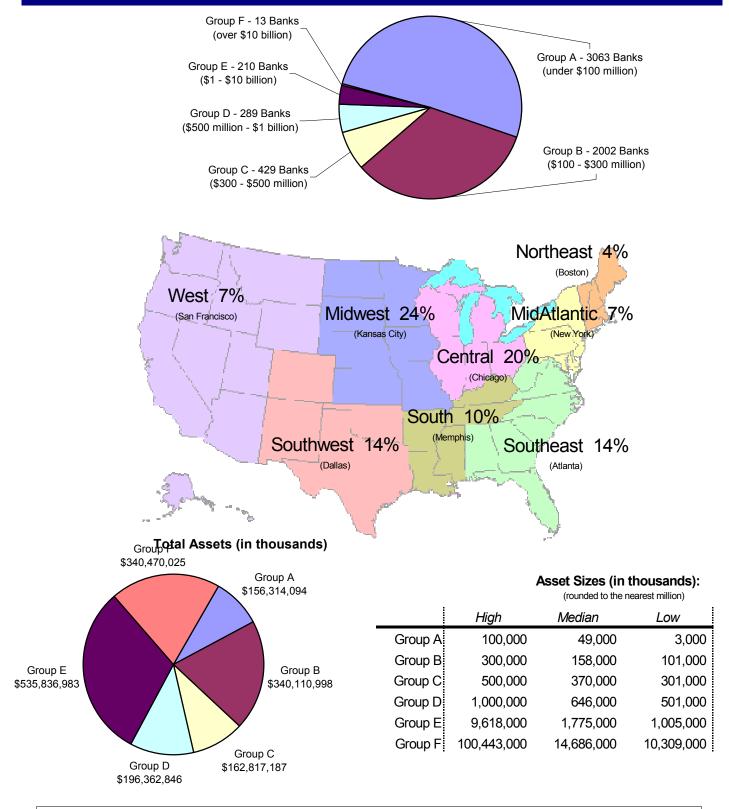
If deposit rates fall, deposit customers may go elsewhere in search of yield (mutual funds, stock market, competitive financial institutions). If deposit rates remain high, bankers will need to look beyond margin to produce profitability. If that search means longer-term securities, liquidity planning and contingencies will be at a premium. If that search means cutting operating expenses, risk management systems and productivity improvements will be needed. How is your bank responding to the challenges?

Take advantage of our groundwork... Let Olson Research do your SFAS 107 calculations for you. Our model provides you with fair values not only for your loan portfolio but also for your entire balance sheet. The model will determine an <u>accurate discount rate</u> and we supply ample documentation to support the analysis that allows for a more efficient audit.



#### 1st Quarter 2001

Peer Data Demographics Industry Report



The primary source of data is the FDIC Call Report or the Federal Reserve FRY-9 Report. A/L BENCHMARKS also uses investment security downloads, supplemental information supplied by bank management, and modeling assumptions. Assumptions are based upon historical bank data, industry norms, and bank supplied supplemental information.

#### Earnings Performance Industry Report

1st Quarter 2001			r Groi \$100 M	•				er Grou -\$300 N					r Groi 0-500 M		
	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low
Return on Assets	1.07	0.67	3.95	1.05	-2.93	1.13	0.54	3.49	1.10	-1.60	1.14	0.47	3.10	1.10	-0.89
Return on Equity	11.11	7.63	44.69	10.17	-24.09	12.60	6.76	44.24	11.66	-16.95	13.03	5.65	37.38	12.69	-12.40
Yield on Earning Assets	8.43	0.74	11.87	8.37	3.81	8.37	0.67	11.79	8.32	4.79	8.32	0.66	10.92	8.25	6.77
Cost of Funds	4.91	0.61	6.93	4.94	2.13	4.89	0.64	6.67	4.93	2.31	4.81	0.66	6.40	4.87	2.33
Interest Margin	4.41	0.84	9.32	4.33	1.99	4.31	0.79	8.26	4.27	1.86	4.25	0.80	7.39	4.22	2.25
Net Overhead to Earning Assets	2.68	0.85	6.92	2.57	0.24	2.40	0.70	6.95	2.34	0.66	2.22	0.61	4.80	2.18	0.26
Operating Efficiency Ratio	66.60	14.87	146.52	65.41	25.23	63.00	12.57	163.53	62.64	27.14	61.27	10.48	104.55	61.00	27.03
Non-Int Inc. to Non-Int Exp.	21.81	10.92	97.20	20.29	-9.20	26.32	12.09	88.08	24.29	-13.54	30.58	13.06	91.59	28.40	2.86
Inc. Taxes to Net Inc. Before Tax	21.40	17.88	118.75	25.50	-250.00	26.64	13.62	110.95	30.35	-36.36	29.40	11.76	73.33	32.28	-50.48

The average Bank in Peer Group B has:

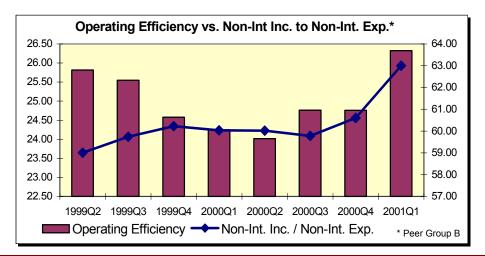
- a Return on Assets (ROA) of 1.13%;
- a Return on Equity (ROE) of 12.60%;
- and a 4.31% Interest Margin.

#### Measuring your Bank's Operating Efficiencies

With increased competition from outside the industry, banks continue to experience interest margin pressures. Individual banking companies and the banking industry as a whole are striving to find greater efficiencies in their day-to-day operations. In large banking companies, some of these efficiencies are sought by merging entities and therefore in the process, eliminating redundancies in all aspects of operations. For smaller institutions, efficiency gains are usually achieved by controlling costs and generating more diverse and higher levels of non-interest revenues.

When evaluating a bank's operating efficiency, a series of measures that incorporate an analysis of the bank's level of noninterest expense relative to the bank's non-interest income, earning asset level and overall revenue base are necessary.

The first of these measures, the Operating Efficiency Ratio, is created by dividing non-interest expense by net bank revenue on a tax equalized basis. Net bank revenue is defined as the sum of tax equivalent interest income plus non-interest income less interest expense. This efficiency ratio demonstrates the institution's ability to support its net revenue stream with as little



A/L BENCHMARKS Industry Report

#### Earnings Performance Industry Report

(		r <b>Grou</b> illion-\$1	IP D Billion)				r Grol \$10 Bill	•				r Grol \$10 Bi	•		1st Quarter 2001
Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	
1.15	0.46	2.95	1.14	-0.75	1.21	0.48	2.59	1.20	-0.61	1.10	0.45	2.23	1.13	0.47	Return on Assets
13.50	5.56	35.74	13.60	-7.85	14.89	6.56	33.38	14.90	-5.63	13.68	5.63	24.28	14.45	4.69	Return on Equity
8.18	0.67	10.85	8.08	6.57	8.07	0.54	10.01	8.05	6.54	7.92	0.36	8.45	7.91	7.22	Yield on Earning Assets
4.69	0.70	6.40	4.75	1.88	4.61	0.70	6.17	4.73	1.34	4.44	0.58	5.32	4.63	3.22	Cost of Funds
4.15	0.81	6.44	4.10	2.04	4.09	0.76	7.19	4.07	1.84	3.90	0.39	4.45	3.98	3.20	Interest Margin
2.11	0.64	4.54	2.05	0.02	1.92	0.69	4.41	1.85	0.27	1.67	0.66	3.38	1.56	0.80	Net Overhead to Earning Assets
60.50	10.18	97.16	60.62	19.29	58.96	12.25	110.41	58.62	29.45	57.67	12.41	84.13	54.47	29.95	Operating Efficiency Ratio
33.05	14.54	101.92	30.55	4.18	39.90	18.33	102.47	37.61	-6.34	48.25	9.23	63.76	51.34	30.83	Non-Int Inc. to Non-Int Exp.
30.36	10.84	80.72	32.98	-5.56	32.40	8.29	71.81	33.33	0.00	35.98	4.12	44.95	35.25	27.72	Inc. Taxes to Net Inc. Before Tax

overhead expense as possible. In today's operating environment, targeted efficiency ratios between 50-55% are considered to be acceptable.

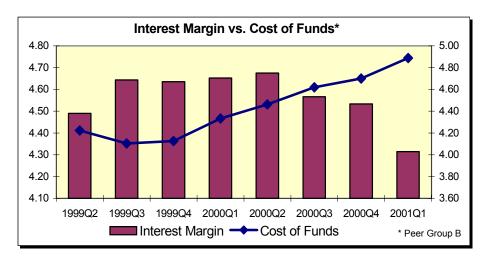
The second measure, Net Overhead to Earning Assets, is computed by subtracting non-interest income from gross non-interest operating expense, excluding the provision of loan losses. This net overhead "burden", expressed as a percentage of earning assets provides for a comparison with the net interest margin percentage. The expression of efficiency is useful for demonstrating the net expense level of the bank relative to it's earning asset base. For most banking companies today, (with the exception of some large banks whose net overhead % is below 1.00%) net overhead to earning asset ratios that are maintained below 2.00% are considered to be exceptional.

#### The Components of Margin

When evaluating the earnings performance of your financial institution, if you unravel the bank's return measures, ROA and ROE, you quickly realize that the net interest margin is still the most significant factor in determining a bank's profitability. A strong and consistent interest margin, regardless of the interest rate environment, allows a bank to absorb net overhead costs, provide for possible loan losses, pay income taxes, and return a respectable level of net income.

Expressed in dollars, margin is known as net interest income. Net interest income is interest income from all earning assets less interest expense on all interest bearing deposits and liabilities. Stated as a percentage of average earning assets, net interest income represents the bank's interest income (tax equivalent basis) net of interest expense and is known as net interest margin.

By converting interest margin to a ratio, it can be easily compared to competitors and peers. The higher the interest margin ratio the more effective the bank is in managing its earning assets and interest bearing liabilities. A good margin ratio is reflective of good yields, lower cost rates, competent use of earning assets and a judicious mix of interest-bearing liabilities.



#### Capital Adequacy and Growth Industry Report

1st Quarter 2001			r <b>Gro</b> l \$100 N	•				r Grol \$300 M					r <b>Gro</b> ∟ -500 M		
Capital Adequacy	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low
Total Risk-Based Capital %	17.9	7.3	65.0	15.9	8.1	15.5	6.0	56.7	13.6	7.9	14.0	4.4	49.3	12.6	8.1
Tier 1 Risk-Based Capital %	16.8	7.3	64.5	14.8	7.3	14.4	6.0	55.5	12.5	6.7	12.8	4.4	49.0	11.4	6.9
EVE to Book Value of Equity	118.9	15.0	230.0	117.0	51.0	124.6	15.9	230.0	123.0	62.0	127.9	15.1	184.0	127.0	88.0
Equity to Total Assets	10.8	3.2	27.5	10.0	4.6	9.7	2.8	27.8	8.9	4.9	9.1	2.4	20.0	8.6	5.4

		Std.					Std.					Std.			
Growth	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low
Growth Rate - Balance Measure	17.6	19.8	302.9	12.7	0.0	15.5	14.8	144.3	12.0	0.0	16.0	15.2	150.1	12.3	0.0
Growth Rate - Loans	13.2	20.8	309.3	8.8	-41.7	13.0	15.6	126.4	9.9	-24.1	14.4	19.4	148.9	11.0	-40.2
Growth Rate - Assets	10.0	15.9	199.7	6.1	-41.0	12.0	15.2	136.1	8.3	-22.5	14.3	17.7	122.4	9.6	-24.4
Growth Rate - Deposits	9.8	18.9	199.5	5.0	-48.6	11.7	16.5	156.2	7.7	-24.2	14.2	19.0	144.5	9.2	-22.8
Growth Rate - Equity	12.6	13.9	128.2	10.6	-40.3	16.7	17.6	170.2	13.5	-49.2	19.6	22.5	157.3	14.7	-26.1

#### **Growth Measures and Capital Adequacy?**

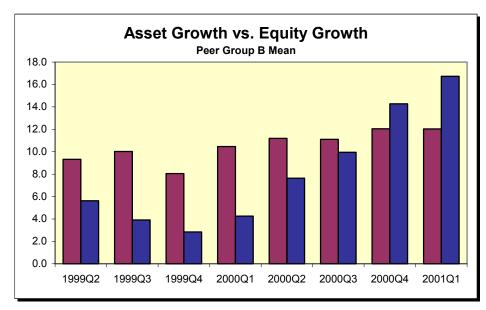
Why are we concerned about various aspects of growth and what is its significance when measuring capital adequacy?

Growth in balance sheet size is necessary for banks to meet the growing needs of customers, to offset inflationary pressures on operating costs, and to increase the returns to investors.

Evaluation of growth has several components. First, asset growth compared to the rate of inflation indicates whether the bank is growing in real terms or slipping in relation to changes in the economy. Second, asset growth indicates how well the management team can do compared to other banks operating in the same environment. Third, net income growth compared to asset growth indicates whether the bank is sacrificing profitability to achieve rapid asset growth. Finally, consistency among the growth rates of loans, deposits, assets, and equity (this is the concept of balanced growth) indicates how well management has balanced diverse pressures.

In today's market environment, maintaining a balance of growth, especially between loans and deposits, is increasingly more difficult due to competitive pressures from other financial institutions and non-bank entities.

As traditional "core" deposits leave the banking system, many bankers have employed available funding programs such as FHLB advances. These programs have allowed bankers to satisfy short-term financing needs or to leverage the bank's capital position



with targeted longer term borrowings to fund specific asset growth opportunities.

If asset growth is more rapid than growth in capital, the bank's leverage is increased, creating a double-edged sword. From the shareholders perspective, increased leverage is acceptable because it increases their returns per dollar invested. Regulators, however, are critical of asset growth which increases leverage above a conservative level. Balanced growth rates between assets and capital hold leverage constant, therefore, minimizing pressure on the equity to asset relationship.■

#### Capital Adequacy and Growth Industry Report

st Quarter 2001
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		r G <b>ro</b> l illion-\$^	up D 1 Billion)				Grou 610 Bill					r <b>Gro</b> l \$10 Bil			1st Quarter 2001
Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	Capital Adequacy
13.	3 4.1	32.5	12.4	8.8	13.0	4.2	42.2	11.8	9.9	11.1	0.7	13.1	11.1	10.1	Total Risk-Based Capital %
12.	6 4.1	31.7	11.2	7.4	11.6	4.3	41.5	10.6	6.8	8.9	1.4	12.0	8.2	7.1	Tier 1 Risk-Based Capital %
127.	5 15.2	176.0	127.0	81.0	128.6	16.6	175.0	129.0	72.0	128.7	17.9	152.0	127.0	83.0	EVE to Book Value of Equity
1.	2 2.3	22.3	8.6	5.4	1.2	2.7	27.9	8.2	5.5	1.1	2.3	15.2	8.4	5.5	Equity to Total Assets

	Std.					Std.					Std.				
Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	Growth
-1.8	0.5	-3.6	-1.8	-0.6	-1.8	0.5	-3.1	-1.8	-0.6	-1.6	0.4	-2.4	-1.5	-0.9	Growth Rate - Balance Measure
-1.2	0.2	-2.1	-1.2	-0.6	-1.1	0.2	-1.9	-1.1	-0.6	-1.2	0.2	-1.5	-1.1	-0.9	Growth Rate - Loans
-2.6	0.8	-4.6	-2.7	-0.6	-2.7	0.8	-4.4	-2.7	-0.4	-2.6	0.6	-3.5	-2.7	-1.4	Growth Rate - Assets
-1.8	0.6	-3.8	-1.7	-0.4	-1.8	0.6	-3.6	-1.9	-0.4	-1.6	0.4	-2.5	-1.5	-0.9	Growth Rate - Deposits
-1.2	0.2	-2.1	-1.2	-0.6	-1.2	0.2	-1.7	-1.2	-0.7	-1.2	0.2	-1.4	-1.2	-1.0	Growth Rate - Equity

#### **Risk-Based Capital Standards**

The regulatory capital category that your bank falls under can have significant impact on your ability to run your bank. The provisions for capital based supervision, as established by FDIC Improvement Act (FDICIA), are summarized here.

"Well Capitalized" banks are the only ones that escape required regulatory sanctions.

"Adequately Capitalized" banks are prohibited from accepting brokered deposits without the prior approval of the FDIC, and may not pay interest "significantly above prevailing interest rates" on any deposits.

"Undercapitalized" banks are subject to all of the restrictions of adequately capitalized banks, must also submit acceptable capital restoration plans to the appropriate federal banking agency (including a parent company guarantee of compliance in the case of a bank holding company subsidiary), are prohibited from paying dividends or paying management fees to a parent bank holding company, cannot increase total assets, and are limited in their ability to make acquisitions, open new branch offices, or enter new lines of business.

"Significantly Undercapitalized" banks are subject to the same restrictions as undercapitalized institutions, may not pay a bonus or give a raise to a senior executive officer without prior regulatory agency approval, and may also be required, among other things, to raise additional capital, reduce total assets, terminate certain activities, replace officers or directors, or seek to be acquired.

"Critically Undercapitalized" banks must be closed or placed into conservatorship unless good cause to do otherwise exists, and if allowed to survive are to be subjected to an even broader array of operating restrictions.

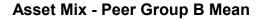
Additionally, at each lower level of capital, the premiums for FDIC deposit insurance coverage increases.

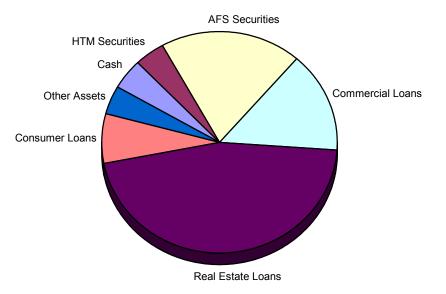
FDICIA Capital Category	Total Risk-Based Capital %	Tier I Risk-Based Capital %	Leverage Ratio %
Well Capitalized	10%	6%	5%
Adequately Capitalized	8%	4%	4%
Undercapitalized	less than 8	less than 4	less than 4
Significantly Undercapitalized	less than 6	less than 3	less than 3
Critically Undercapitalized			2% or less

#### Balance Sheet Mix Industry Report

1st Quarter 2001			r Grou \$100 M	•				r Groi \$300 M					r Grol 1-500 M	•	
Assets	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low
Cash	4.9	3.7	38.8	3.9	0.4	4.3	2.7	20.9	3.6	0.5	4.1	2.2	17.3	3.6	1.1
Held to Maturity Securities	5.4	10.0	73.1	0.3	0.0	3.9	7.5	64.6	0.1	0.0	3.6	7.2	59.0	0.3	0.0
Available for Sale Securities	18.8	13.5	68.7	17.2	0.0	18.8	11.8	71.2	17.4	0.0	18.5	10.2	53.0	18.1	0.1
Short Term Investments	6.3	5.7	34.7	5.2	0.0	4.7	4.6	33.2	3.7	0.0	3.8	3.8	23.6	3.0	0.0
Commercial & All Other Loans	17.9	11.8	75.9	15.3	0.0	14.0	9.6	70.7	12.2	0.0	12.8	9.4	83.8	10.9	0.0
Real Estate Loans	35.5	15.0	89.4	35.0	0.7	44.1	14.1	90.4	44.4	0.0	47.6	14.5	84.8	47.8	1.8
Consumer Loans	8.2	5.8	58.9	6.8	0.0	6.9	5.8	60.2	5.6	0.0	6.5	6.5	47.3	4.9	0.0
Other Assets	3.9	1.9	19.4	3.5	0.7	4.0	1.9	18.7	3.7	0.8	4.0	1.5	12.0	3.8	1.1

		Std.					Std.					Std.			1
Funding Sources	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low
Non-Interest Deposits	11.8	6.2	55.8	10.5	0.0	11.8	5.9	45.5	10.8	0.3	10.0	4.9	34.5	9.5	0.3
Now, Savings and MMDA	28.2	8.6	69.9	27.5	0.1	30.4	9.8	75.5	29.5	2.3	32.3	10.8	69.0	30.9	10.9
CDs less than \$100M	32.6	9.9	80.6	33.0	0.0	28.9	9.9	64.5	29.4	0.7	27.4	9.6	56.5	26.9	2.4
Jumbo CDs	12.8	7.0	61.6	11.6	0.0	13.2	6.8	60.0	12.1	0.0	12.6	6.2	37.1	11.5	0.8
Short Term Borrowed Funds	1.4	2.9	28.2	0.0	0.0	2.4	3.6	36.7	0.9	0.0	3.9	4.4	27.5	2.4	0.0
Long Term Debt	1.6	3.6	36.2	0.0	0.0	2.7	4.2	37.2	0.6	0.0	3.8	5.0	33.2	1.7	0.0
Other Liabilities	0.9	0.4	5.9	0.8	0.0	0.8	0.5	7.9	0.8	0.0	0.9	0.4	3.1	0.8	0.2
Equity	10.8	3.2	27.5	9.9	4.6	9.7	2.8	27.8	8.9	4.9	9.1	2.4	20.0	8.6	5.4





When evaluating guidelines for risk management and the level of capital needed for interest rate risk, bank management and examiners should consider the nature and complexity of the bank's activities.

Joint Policy Statement on Interest Rate Risk, 1996

## "Don't put all your eggs in one basket."

This adage can be traced from ancient Chinese proverbs, through biblical times, to modern business theory. Diversification remains the most fundamental of all principles in the world of risk management and explains why A/L BENCHMARKS provides information on Balance Sheet Mix (%).

The Balance Sheet Mix information identifies three categories of investment securities and three categories of loans. There are two other asset categories, Cash and Other Assets, which are not interest rate sensitive.

How do you compare? Are your percentages within one standard deviation of the mean? Have you decisively established your asset mix, or is your allocation a result of competition and your marketplace? Regardless of how you measure, are you comfortable with your asset allocation?

The mix percentages also identify four

#### 1st Quarter 2001

#### Balance Sheet Mix Industry Report

(		r Grou illion-\$^	ıp D 1 Billion)				r <b>Grol</b> \$10 Bill					r Grol \$10 Bil	•		1st Quarter 2001
Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	Assets
3.8	1.9	12.9	3.5	0.3	3.8	2.6	18.3	3.1	0.6	4.6	4.4	15.3	3.0	1.9	Cash
4.5	7.6	39.3	0.5	0.0	4.0	8.2	61.6	0.3	0.0	2.9	4.8	15.9	0.0	0.0	Held to Maturity Securities
18.6	11.2	61.8	17.6	0.1	20.8	10.5	52.8	18.9	0.3	16.7	7.8	32.8	18.1	0.2	Available for Sale Securities
3.3	3.7	20.8	2.3	0.0		5.4	33.2	1.8	0.0	4.6	8.8	32.1	0.8	0.0	Short Term Investments
14.2	9.4	54.4		0.0		9.3	46.6	12.2	0.0	-	11.2	43.4	16.4	4.0	
45.9	13.4	87.8	45.7	6.7		13.7	82.5	42.3	5.4		11.7	62.9	36.7	22.9	
6.5	6.7	42.3		0.0	-	7.5	39.0	5.1	0.0	-	3.9	15.7	7.6	2.2	
4.1	1.8	14.2	3.9	1.1	4.6	2.1	19.5	4.2	1.3	5.4	2.8	13.3	4.5	2.3	Other Assets
Mean	Std. Dev.	Hiah	Median	Low	Mean	Std. Dev.	Hiah	Median	Low	Mean	Std. Dev.	Hiah	Median	Low	Funding Sources
Mean 8.8		High 28.8	Median 8.0	<i>Low</i> 0.2	Mean 8.1		High 29.4	Median 7.2	<i>Low</i> 0.8	Mean 6.5		<i>High</i> 13.1	Median 6.0	<i>Low</i> 1.0	_
	Dev.	0			8.1	Dev.	U			6.5	Dev.	U			Non-Interest Deposits
8.8	<i>Dev.</i> 5.1	28.8	8.0	0.2	8.1 33.4	Dev. 4.9	29.4	7.2	0.8	6.5 34.9	Dev. 2.9	13.1	6.0	1.0	Non-Interest Deposits Now, Savings and MMDA
8.8 34.2	Dev. 5.1 11.2	28.8 67.9	8.0 33.1	0.2 4.8	8.1 33.4 22.6	Dev. 4.9 10.4	29.4 66.6	7.2 32.9	0.8 9.9	6.5 34.9 20.1	Dev. 2.9 8.9	13.1 57.4	6.0 33.7	1.0 23.4	Non-Interest Deposits Now, Savings and MMDA CDs less than \$100M
8.8 34.2 24.8	Dev. 5.1 11.2 9.3	28.8 67.9 50.3	8.0 33.1 25.6	0.2 4.8 2.3	8.1 33.4 22.6 11.8	Dev. 4.9 10.4 9.3	29.4 66.6 46.7	7.2 32.9 23.8	0.8 9.9 0.9	6.5 34.9 20.1 9.7	Dev. 2.9 8.9 6.8	13.1 57.4 29.7	6.0 33.7 22.6	1.0 23.4 9.3	Non-Interest Deposits Now, Savings and MMDA CDs less than \$100M Jumbo CDs
8.8 34.2 24.8 12.6	Dev. 5.1 11.2 9.3 7.7	28.8 67.9 50.3 56.8	8.0 33.1 25.6 10.8	0.2 4.8 2.3 2.7	8.1 33.4 22.6 11.8 8.7	Dev. 4.9 10.4 9.3 7.2	29.4 66.6 46.7 48.1	7.2 32.9 23.8 9.9	0.8 9.9 0.9 2.5	6.5 34.9 20.1 9.7 11.6	Dev. 2.9 8.9 6.8 4.9	13.1 57.4 29.7 18.3	6.0 33.7 22.6 8.3	1.0 23.4 9.3 2.2	Non-Interest Deposits Now, Savings and MMDA CDs less than \$100M Jumbo CDs Short Term Borrowed Funds
8.8 34.2 24.8 12.6 5.2	Dev. 5.1 11.2 9.3 7.7 5.4	28.8 67.9 50.3 56.8 26.7	8.0 33.1 25.6 10.8 3.7 1.5	0.2 4.8 2.3 2.7 0.0	8.1 33.4 22.6 11.8 8.7 5.2	Dev. 4.9 10.4 9.3 7.2 7.4	29.4 66.6 46.7 48.1 35.7	7.2 32.9 23.8 9.9 7.4	0.8 9.9 0.9 2.5 0.0	6.5 34.9 20.1 9.7 11.6 7.2	Dev. 2.9 8.9 6.8 4.9 5.8	13.1 57.4 29.7 18.3 21.1	6.0 33.7 22.6 8.3 9.5	1.0 23.4 9.3 2.2 3.8	Non-Interest Deposits Now, Savings and MMDA CDs less than \$100M Jumbo CDs Short Term Borrowed Funds Long Term Debt

categories of deposits and two categories of borrowed funds. The Other Liabilities and Equity categories complete the liability side of the balance sheet. All sources of funding are expressed as a percentage of Total Assets to give comparability to asset mix percentages.

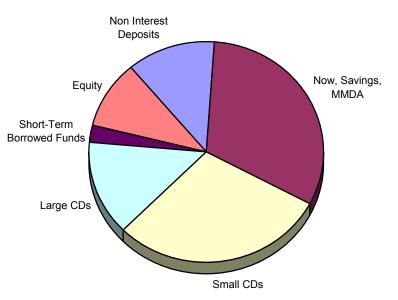
Where does the majority of your funding come from? Core Deposits, Purchased Funds, or Equity? Can you change your funding mix? Do you want to change your mix?

Balance Sheet Mix provides a useful insight into the major areas of financial risk; asset quality, liquidity, and interest rate risk. The regulators are interested in all three, and bank executives need to measure all three for adequate risk/return analysis.

A/L BENCHMARKS provides key information to help your analysis.

Is your asset allocation comparable to your peers? Is it consistent with your sources of funding?■

#### Funding Mix - Peer Group B Mean



The balance sheet mix percentages will help explain how the duration of individual accounts weigh into the duration of Total Assets and Total Liabilities. Do you have a heavy concentration in a certain asset or funding category? If so, have you taken adequate precautions to reduce your risk? If not, does your rate of return compensate you for the added risk?

Asset Quality Industry Report													1st Qi	uarter	2001
1st Quarter 2001	Mean		r Grou \$100 M High		Low	Mean		r Grol -\$300 N High	•	Low	Mean		r Grou -500 M High	•	Low
Non-Perf. Assets to Total Loans	1.2	1.5	14.7	0.8	0.0	1.0	1.1	16.0	0.7	0.0	0.9	0.8	7.7	0.7	0.0
Allow for Loan Loss to Total Loans	1.4	0.7	13.4	1.3	0.1	1.3	0.5	4.8	1.2	0.2	1.3	0.5	3.5	1.2	0.3
Net Charge-Offs to Total Loans	0.2	0.6	8.1	0.0	-1.2	0.2	0.4	5.5	0.1	-1.0	0.2	0.4	3.9	0.1	-0.5
Loan Loss Provision to Total Loans	0.3	0.4	6.0	0.2	-1.8	0.3	0.3	3.7	0.2	-2.3	0.3	0.4	3.6	0.2	-0.3
Total Inv. Sec. Market Value Premium	1.3	1.2	18.1	1.2	-11.4	1.3	1.3	19.5	1.3	-6.2	1.4	1.6	14.0	1.3	-6.4
Net Loans Present Value Premium	3.7	1.7	18.5	3.7	-5.8	3.7	1.6	19.4	3.7	-14.3	3.8	1.3	8.1	3.7	-0.2
Total Dep. Present Value Premium	-0.5	0.9	17.7	-0.5	-5.7	-0.2	0.9	5.6	-0.2	-3.7	0.0	0.8	3.0	-0.1	-3.6
Total Inv. Sec. To Total Assets	24.2	13.2	73.3	22.7	0.0	22.7	12.0	71.2	21.3	0.2	22.1	10.7	63.9	20.5	0.5
Total Loans to Total Assets	61.5	13.5	93.4	62.7	12.6	65.1	12.4	96.7	66.6	19.1	66.9	11.3	91.6	68.4	25.7
Risk Wghtd Assets to Tot Assets	64.9	11.5	100.0	65.2	18.2	67.1	10.7	99.5	67.2	22.2	68.8	9.5	90.7	69.6	27.4

The average Bank in Peer Group B has a % of Total Loans:

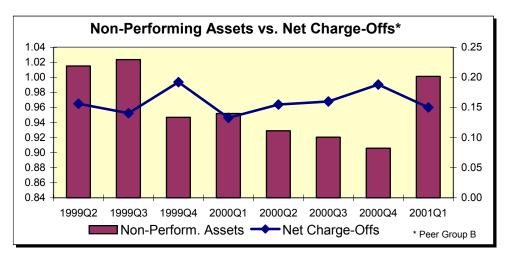
- 1.0% Non-Performing Assets;
- an Allowance for Loan Loss of 1.3%;
- 0.2% Net Charge-offs;
- and a 0.3% Loan Loss Provision.

#### Loan Quality

Bank management can focus on four related key measures to establish a current and prospective view of possible loan loss. These four measures are Non-Performing Assets, Allowance for Loan Loss, Net Charge-Offs, and Loan Loss Provision.

Begin by looking at Non-Performing Assets which are primarily past-due, non-accruing, and foreclosed loans. Such "assets" represent past credit decisions which are now recognized as bad loans. Non-Performing Assets are a drag on current earnings and an indication of what may need to be charged-off in the future.

Next look at the Allowance for Loan Loss which is the bank's reserve for bad debts. It represents prior charges against earnings which can absorb current and future charge-offs. When viewed in comparison to Non-Performing Assets, the adequacy of current reserves can be judged. If the Allowance is below the Non-Performing Assets, additional provision expense may be necessary.



1st G	)uarte	r 200 <sup>.</sup>	1												Asset Quality Industry Report
( Mean		r Grou illion-\$ <sup>-</sup> <i>High</i>	up D 1 Billion) <i>Median</i>	Low	Mean		r Grou \$10 Bill <i>High</i>		Low	Mean		r Grou • \$10 Bi <i>High</i>		Low	1st Quarter 2001
0.8	0.8	7.4	0.6	0.0	0.8	0.6	3.7	0.7	0.0	0.8	0.4	1.5	0.8	0.2	Non-Perf. Assets to Total Loans
1.3	0.4	2.7	1.3	0.4	1.4	0.5	4.3	1.4	0.2	1.3	0.2	1.8	1.4	1.0	Allow for Loan Loss to Total Loans
0.2	0.4	3.1	0.1	-0.7	0.2	0.3	1.8	0.2	-0.4	0.4	0.3	1.4	0.4	0.1	Net Charge-Offs to Total Loans
0.3	0.4	3.2	0.2	-0.4	0.3	0.4	2.3	0.2	-1.6	0.5	0.4	1.6	0.4	0.1	Loan Loss Provision to Total Loans
1.4	1.4	9.4	1.3	-6.8	1.3	1.8	14.4	1.2	-9.7	1.6	2.6	9.1	1.0	-2.3	Total Inv. Sec. Market Value Premium
3.7	1.6	15.1	3.7	-0.8	3.7	1.4	7.6	3.7	0.5	3.3	1.2	5.4	3.5	0.7	Net Loans Present Value Premium
0.1	0.9	3.1	0.0	-4.3	0.3	1.0	3.6	0.3	-3.5	1.1	1.0	2.9	1.2	-0.8	Total Dep. Present Value Premium
23.1	10.9	61.8	21.7	1.0	24.8	11.3	62.7	22.1	4.7	19.6	7.2	32.8	19.1	8.6	Total Inv. Sec. To Total Assets
66.5	11.5	91.2	67.7	24.5	64.1	11.6	86.8	65.7	25.6	66.6	11.7	81.5	70.6	40.1	Total Loans to Total Assets
69.1	10.5	94.7	68.8	34.2	69.8	11.2	98.7	70.3	30.5	75.8	11.0	95.9	75.6	53.5	Risk Wghtd Assets to Tot Assets

The next measure, Net Charge-Offs, represents loans actually charged-off, net of recoveries. The current amount and trend of charge-offs is an indication of prior credit decisions and management's balance sheet philosophy. A steady amount of charge-offs at a low level indicates that some bad debts are simply a cost of doing business. Large swings in charge-offs are an indication of surprises and the possibility of less than adequate credit approval procedures.

Finally, Loan Loss Provision is the current loss expense recognized for the lending and credit function. When viewed in comparison with the charge-offs over time, the provision indicates whether the expense provision is required to build reserves for a growing loan portfolio or is required to absorb the bad and charged-off loans in excess of the current reserve position. ■

#### Market Values and Asset Quality?!?

#### Do market values of financial instruments indicate asset quality?

Yes. A market value is the price a willing buyer and a willing seller would offer and accept, to trade an item owned, for cash or equivalent, in a free and open market ("at-arms-length"). Presumably a willing buyer expects normal quality, will pay a premium for good quality and will require a discount for poor quality.

The quality of a financial instrument is indicated by the credit worthiness of the maker, the length of time until principal is to be repaid, estimates of prepayment speeds, the rate of return, the structure of the interest rate contract (i.e. fixed rate, floating or adjustable) and timing of interest rate changes. Of the above, credit quality is the most important.

Asset quality, as suggested by market values, of a commercial bank is reflected in three items: the market value of its investment securities; the fair value of its loans; and the fair value of its deposit premium (the recorded value less the calculated economic value of deposit liabilities).

For traded financial instruments, such as investment securities, active markets with published prices provide an independent source of information for market values.

The major difference between a loan contract and an investment security is the absence of a trading market to set prices "at-arms-length". None-the-less, a fair value (the financial world's substitute for market value) can be estimated.

Like loans, deposits of most commercial banks are not traded in any public market on a daily basis.

However over the past several decades branches and banks have been sold with a portion of the selling price determined by a valuation of deposit premium. The valuation process used in branch sales has established the concept of deposit premiums (or discounts) based on economic or future value.

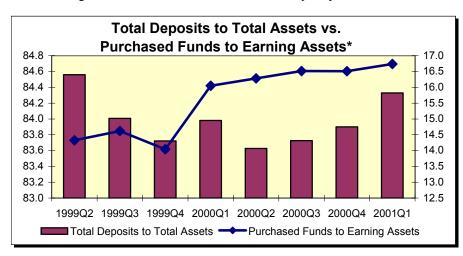
Liquidity Risk Industry Report													1st Q	uarter	2001
1st Quarter 2001	Mean		r Grou \$100 M <i>High</i>	•	Low	Mean		r Grol -\$300 N <i>High</i>		Low	Mean		r Grou -500 M High		Low
Cash to Deposits	4.0	2.0	17.6	3.7	0.0	3.5	1.8	15.3	3.3	-0.5	3.5	1.6	11.6	3.4	0.0
Loans to Deposits	72.7	16.8	148.6	73.7	15.9	79.1	16.5	149.4	79.3	23.7	83.8	17.2	150.3	84.1	28.8
Unrealzd Gain(Loss) on AFS Sec.	0.8	1.0	14.5	0.7	-9.0	0.9	1.2	13.5	0.8	-9.8	0.9	1.3	11.7	0.8	-5.5
AFS Securities to Total Assets	18.8	13.5	68.7	17.2	0.0	18.8	11.8	71.2	17.4	0.0	18.5	10.2	53.0	18.1	0.1
Short Term Inv. To Total Assets	6.3	5.7	34.7	5.2	0.0	4.7	4.6	33.2	3.7	0.0	3.8	3.8	23.6	3.0	0.0
Total Deposits to Total Assets	85.3	5.4	94.0	86.4	51.4	84.3	6.1	93.8	85.6	50.8	82.3	7.2	93.6	83.6	46.8
Purch Funds to Earning Assets	15.0	8.0	64.2	13.9	0.0	16.7	7.9	64.7	15.7	1.3	17.8	7.7	47.7	16.9	2.3
Net Borrowed Funds to Equity	-38.4	71.3	771.5	-35.9	-381.6	-7.3	71.8	416.2	-11.2	-385.7	18.9	77.9	515.4	10.0	-225.8
Volatile Liability Dependence	7.3	13.4	68.6	7.9	-87.4	11.8	10.8	68.9	11.6	-44.6	14.0	9.9	56.7	13.1	-16.0
Non-Core Funding Dependence	3.9	18.2	73.1	5.4	-136.1	10.9	14.1	71.5	11.2	-61.9	14.6	12.8	52.1	14.5	-32.7
Short-Term Non-Core Funding Dep.	-0.5	16.9	98.9	1.1	-136.1	5.6	13.3	98.1	5.6	-65.4	8.2	11.4	49.3	7.8	-34.2

#### The average Bank in Peer Group B has:

Asset	- a Loan to Deposit Ratio of 79.1%;
Liquidity	- 18.8% of its Assets in AFS Securities;
Funding	- Total Deposits to Total Assets of 84.3%;
Liquidity	- and 16.7% Purchased Funds to Earning Assets.

#### **Analyzing Your Current Liquidity Position**

Although effective liquidity management requires looking ahead at expected future cash flows, it is also necessary to have an initial understanding of the bank's current position. Typically, when evaluating this current liquidity position we start by constructing ratios that communicate the inherent liquidity on the asset side of the balance sheet as well as the potential funding



A traditional asset liquidity sources. measurement is the Loans to Deposits ratio. It is designed to depict the percentage of deposit funding that is "tied-up" in the loan portfolio which is not normally considered to be very liquid. The AFS Security to Total Asset ratio is a complimentary measure to the Loans to Deposits ratio. It communicates the percentage of assets that could be readily converted to cash in a liquidity crunch (pledging requirements and individual security market values within the portfolio would potentially affect the true "availability" of the portfolio).

On the liability side, the ratio of Total Deposits to Total Assets is another

traditional liquidity measure that indicates the broad "reliable" base of funding for the bank. Although this ratio establishes how much of the bank's assets are funded by deposits, rather than borrowed funds or equity, it falls short in helping to understand the nature of the deposits deemed to be reliable. In conjunction with this measure, the Purchased Funds to Earning Assets ratio

1st G	Quarte	r 2001	1												Liquidity Risk Industry Report
( Mean		r Grou illion-\$^ <i>High</i>	up D 1 Billion) <i>Median</i>	Low	Mean		r Grou \$10 Bill <i>High</i>		Low	Mean		r Grou • \$10 Bi <i>Hiqh</i>	•	Low	1st Quarter 2001
3.6	1.8	15.2	3.4	0.1		2.4	15.9	3.4	0.2		2.2	10.2	3.9	1.8	Cash to Deposits
84.9	16.6	138.7	85.8	28.6		17.7	134.3	86.9	29.7		19.2	128.2	99.4	51.4	1
0.9	1.3	8.7	0.8	-4.2	0.8	1.2	8.7	0.7	-4.3	0.9	1.8	5.8	0.7	-2.7	Unrealzd Gain(Loss) on AFS Sec.
18.6	11.2	61.8	17.6	0.1	20.8	10.5	52.8	18.9	0.3	16.7	7.8	32.8	18.1	0.2	AFS Securities to Total Assets
3.3	3.7	20.8	2.3	0.0	3.6	5.3	33.2	1.8	0.0	4.5	8.9	32.1	0.5	0.0	Short Term Inv. To Total Assets
80.4	7.8	93.5	82.0	51.5	75.9	9.5	93.4	78.0	46.4	71.2	8.0	84.9	68.2	62.1	Total Deposits to Total Assets
19.2	9.5	63.2	17.4	3.3	22.3	9.7	53.2	20.4	6.5	23.1	9.5	39.1	24.2	6.1	Purch Funds to Earning Assets
37.8	83.8	407.9	26.5	-212.5	79.8	124.2	511.9	63.2	-491.7	76.5	176.3	254.4	111.0	-408.1	Net Borrowed Funds to Equity
16.3	12.0	62.3	15.5	-16.3	19.3	12.9	59.7	18.0	-21.2	17.2	21.2	38.6	25.8	-43.3	Volatile Liability Dependence
17.2	15.3	84.1	16.6	-29.8	21.5	16.1	60.5	22.3	-40.7	23.0	23.4	48.1	29.8	-41.1	Non-Core Funding Dependence
11.1	14.7	102.3	9.5	-29.9	14.0	14.3	54.3	14.6	-43.7	14.4	22.2	42.1	22.7	-43.5	Short-Term Non-Core Funding Dep.

assists in recognizing the nature of funding sources. By definition, Purchased Funds include large CDs, public CDs, foreign deposits, brokered CDs, fed funds purchased, repurchase agreements, and other short-term borrowings (e.g. S-T FHLB advances). Used together, these two measures could reveal that although a bank might be funding 90% of assets via deposits, if the Purchased Funds ratio is 45% it's a strong indicator that most of the bank's deposits are, on the surface, not necessarily considered reliable. Certainly, these two measures can give a clearer indication of the bank's potential future funding position by better identifying the nature of the funding sources already employed and depended on by the bank.■

#### **Regulatory Focus on Liquidity**

When examiners conduct an examination, they do a preliminary screening of financial data to see if any issues are readily apparent. This screening will produce an analysis of the liquidity a bank currently has but not necessarily what the bank's future liquidity needs might be. One means for evaluating the current position is to look at three measures referred to as dependency ratios. These measures assist in understanding the mismatch of funding the balance sheet's long-term asset base with various types of short-term or non-core liabilities.

The first ratio, Volatile Liability Dependence %, measures the relationship between long-term earning assets and net short-term funds. Long-term earning assets are considered to be investment securities which mature beyond one year and all loans. Net short-term funds are large time deposits, foreign office deposits, fed funds purchased, repurchase agreements, and other borrowings maturing within one year, net of short-term investments. As a snapshot measure, this ratio signifies the existing reliance on volatile sources to fund the bank's long-term asset base. It also indicates the level to which the bank may have already tapped these more readily available funding sources, therefore, limiting their ability to do so in the future.

The second ratio, Non-Core Funding Dependence %, is a further refinement for measuring the bank's current position by adjusting the volatile liability base to include additional sources considered to be "non-core". Added to the volatile liability base as defined above are brokered deposits less than \$100K and demand notes issued to the U.S. Treasury. This ratio measures the reliance on funding the bank with all non-core sources, although all of these are not considered to be purchased or wholesale because of their size (brokered less than \$100K) or their nature (U.S. Treasury demand deposits).

The third ratio, Short-Term Non-Core Funding Dependence %, evaluates the short-term , non-core portion as it relates to funding long-term earning assets. This ratio includes all of the same funding categories included in the non-core ratio, but includes only those deposits that mature within one year. This indicator again refines the above measure to further pinpoint the funding of long-term earning assets with non-core, volatile sources of a short-term nature.

Obviously, these three measures do not completely communicate any bank's total liquidity risk position, but they do quickly convey a glimpse of the institution's current and potential future mismatch between funding sources and asset utilization.■

#### Interest Rate Risk Industry Report

1st Quarter 2001 Earnings and Equity		(under Std.	r Grou \$100 M				(\$100- Std.	r Groi \$300 N				(\$300 Std.	r <b>Gro</b> l -500 M	•	
Value at Risk	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low
Net Earnings at Risk	-15.3	14.8	-87.5	-10.7	-0.2	-11.5	11.2	-84.6	-8.1	-0.1	-11.4	10.9	-69.6	-8.7	-0.3
Net Interest Earnings at Risk	-5.3	4.0	-24.3	-4.4	-0.1	-4.7	3.7	-24.7	-3.9	0.0	-5.0	3.7	-18.4	-4.3	-0.1
Equity at Risk (EVE)	-9.1	6.5	-49.9	-7.5	-0.2	-11.0	7.2	-59.4	-9.5	-0.8	-12.0	7.3	-52.1	-10.9	-0.9
Equity at Risk (as a % of Assets)	-1.1	0.8	-4.1	-0.9	0.0	-1.3	0.8	-5.4	-1.1	-0.1	-1.3	0.8	-4.5	-1.2	-0.1

Interest Rate Elasticity (Modified Duration)	Mean	Std. Dev.	High	Median	Low	Mean	Std. Dev.	High	Median	Low	Mean	Std. Dev.	High	Median	Low
Total Assets	-1.6	0.5	-4.5	-1.5	-0.2	-1.7	0.5	-4.3	-1.7	-0.3	-1.8	0.5	-3.5	-1.8	-0.1
Total Liabilities	-1.2	0.2	-2.7	-1.2	-0.5	-1.2	0.2	-2.6	-1.2	-0.2	-1.2	0.2	-2.5	-1.2	-0.7
Total Investment Securities	-2.6	1.0	-6.5	-2.6	0.0	-2.7	1.0	-5.8	-2.8	-0.1	-2.6	0.9	-5.3	-2.7	-0.2
Total Loans	-1.6	0.6	-3.9	-1.5	-0.2	-1.7	0.6	-3.8	-1.6	-0.2	-1.8	0.6	-4.7	-1.7	-0.1
Total Deposits	-1.2	0.2	-3.2	-1.2	-0.5	-1.2	0.2	-2.5	-1.2	-0.2	-1.2	0.2	-2.6	-1.2	-0.7

The average Bank in Peer Group B, given a 200bp parallel shift in interest rates, will:

 lose 15.3% of its Net Income and 5.3% of its Net Interest Income;

- lose 9.1% of its Economic Value of Equity (EVE.)

#### Earnings and Equity Value at Risk

As currently defined, interest rate risk is the risk to earnings or capital arising from movements in interest rates. Practically, interest rate risk can be viewed in both a short-term and long-term perspective. To examine short-term interest rate risk (IRR) we look at Earnings-at-Risk. Conversely, we use Equity-at-Risk to measure long-term IRR.

#### Earnings-at-Risk - Short-Term view of IRR

By most definitions, accounting or otherwise, when we communicate something as short-term, we usually refer to a time frame of one year or less. When measuring interest rate risk on an earnings perspective, this same concept applies. Short-term interest rate risk is measured by initially establishing a one year earnings forecast. This base forecast assumes that both the level and structure of market rates of interest are held constant from the last historical period. The balance sheet, in terms of overall size and mix, is constructed using a managerial forecast or a projection.

IRR is a measure of possible loss caused by interest rate changes. Therefore the model introduces two instantaneous, parallel "shocks" to the base set of rates (common practice is to use +/-200bp movements) and then re-computes the expected earnings. The Earnings-at-Risk is the largest negative change between the base forecast and one of the "shock" scenarios. The measure is usually stated as a percentage change of either net interest income or net income.

#### Equity-at-Risk (EVE) - Long-Term view of IRR

As a means for evaluating long-term interest rate risk, an economic perspective is necessary. This approach focuses on the value of the bank in today's interest rate environment and that value's sensitivity to changes in interest rates. This concept is known as Equity-at-Risk. It requires a complete present value balance sheet to be constructed. This is done by scheduling the cash flows of all assets, liabilities, and off-balance sheet items and applying a set of discount rates to in turn develop the present values. The present value of equity is derived by calculating the difference between the present value of assets,

1st G	)uarte	r 2001	1												Interest Rate Risk Industry Report
	\$500 M Std.		I Billion)			(\$1-\$ Std.	r <b>Grou</b> \$10 Bill	ion)			(over Std.	r Grol \$10 Bi	Ilion)		1st Quarter 2001 Earnings and Equity
Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	Mean	Dev.	High	Median	Low	Value at Risk
-12.4	11.7	-67.5		0.0		11.0	-76.6		-0.6		10.5	-41.7	-13.7		Net Earnings at Risk
-5.9	4.6	-23.8	-	0.0		4.9	-24.5		-0.3		2.9	-12.2	-6.8	-0.7	Net Interest Earnings at Risk
-13.2	8.2	-51.2	-11.9	-0.4	-13.8	8.2	-41.8	-12.8	-1.0	-10.0	5.2	-19.3	-9.9	-2.3	Equity at Risk (EVE)
-1.5	0.8	-4.0	-1.4	-0.1	-1.5	0.8	-4.3	-1.4	-0.1	-1.1	0.7	-2.8	-1.1	-0.2	Equity at Risk (as a % of Assets)
Mean	Std. Dev.	High	Median	Low	Mean	Std. Dev.	High	Median	Low	Mean	Std. Dev.	High	Median	Low	Interest Rate Elasticity (Modified Duration)
-1.8	0.5	-3.6	-1.8	-0.6	-1.8	0.5	-3.1	-1.8	-0.6	-1.6	0.4	-2.4	-1.5	-0.9	Total Assets
-1.2	0.2	-2.1	-1.2	-0.6	-1.1	0.2	-1.9	-1.1	-0.6	-1.2	0.2	-1.5	-1.1	-0.9	Total Liabilities
-2.6	0.8	-4.6	-2.7	-0.6	-2.7	0.8	-4.4	-2.7	-0.4	-2.6	0.6	-3.5	-2.7	-1.4	Total Investment Securities
-1.8	0.6	-3.8	-1.7	-0.4	-1.8	0.6	-3.6	-1.9	-0.4	-1.6	0.4	-2.5	-1.5	-0.9	Total Loans
-1.2	0.2	-2.1	-1.2	-0.6	-1.2	0.2	-1.7	-1.2	-0.7	-1.2	0.2	-1.4	-1.2	-1.0	Total Deposits

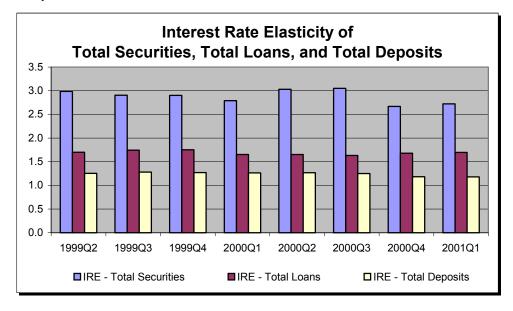
liabilities and off-balance sheet items. (Equity = Assets-Liabilities +/- OBS)

Similar to Earnings-at-Risk, two instantaneous, parallel interest rate "shocks" are applied to the base set of rates and all present values are re-computed. Equity-at-Risk is the largest negative change in the present value between the base and one of the "shock" scenarios. This is usually stated as a percentage change or may be presented in dollars as a comparison to a percentage benchmark of the bank's book assets (1% was suggested by regulators a few years ago).

#### What you need to know about duration

Duration was originally developed in 1938 by Frederick Macaulay as a means for comparing the maturities of financial instruments with differing payment structures (amortizing vs. non-amortizing). It is essentially a measure of the sensitivity of market values to small changes in interest rates.

Macaulay's version of duration is stated as a measure of time. For example, a given instrument has a duration of 2.5 years. This measure is derived by incorporating the instrument's remaining time to maturity, the level of interest rates, and intermediate cash flows. Duration is calculated by weighting the present value of an instrument's cash flows by the time to receipt of those cash flows.



Macaulay's measure was later modified to express the price sensitivity of a bond to a given percentage change in interest rates. This came to be known as "modified duration" or "interest rate elasticity". These measures are stated as expected percentage changes to an instrument's present value for a 100 basis point change in interest rates.

As an example, if a given instrument has an interest rate elasticity of -1.50, there is an expectation that if interest rates rise by 100 basis points, the

(Continued on page 19)

Today bank regulators emphasize a subjective approach to examinations. Joint Statements of Policy and Regulatory Bulletins dispel notions of regulatory reliance on specific benchmarks for risk. Rather, the

Regulatory Bulletins dispel notions of regulatory reliance on specific benchmarks for risk. Rather, the focus is on examiner evaluation of management practices and managerial systems of risk identification, measurement and control.

However, since bankers are required to complete a fairly comprehensive call report on a quarterly basis, the examiners have data for preliminary screening. The results of screening systems pinpoint examination questions and provide data to support examination conclusions.

Both the FDIC and the OCC have established some benchmarks for bank performance and risk. These benchmarks are used by examiners to determine which banks need a closer look and that risks require further investigation.

1st Quarter 2001			Peer	Group - 8,034	Banks
Credit Risk	Mean	High	Low	Regulatory Preference	Percentage of Banks Violating Benchmark
Adjusted Reserves to Adjusted Loans	0.53	9.80	-9.87	above 0%	29%
Change in Portfolio Mix	5.65	83.97	0.00	below 7%	25%
Loan Growth	14.82	216.23	-99.30	below 20%	22%
Loans to Assets	62.76	96.70	0.05	below 70%	32%
Loans to Equity	669.40	3359.47	0.08	below 8x	30%
Loan Yield	9.47	39.81	0.00	below 9.5%	45%

Interest Rate Risk	Mean	High	Low	Regulatory Preference	Percentage of Banks Violating Benchmark
Asset Depreciation to Tier 1 Capital	-9.90	23.88	-94.07	below 15%	1%
Long-term Assets to Total Assets	18.11	79.70	0.17	below 25%	25%
Nonmat. Deposits to Long-term Assets	540.33	9,696.83	0.00	above 140%	23%
Residential Real Estate to Total Assets	24.94	89.33	0.00	below 25%	44%

Liquidity Risk	Mean	High	Low	Regulatory Preference	Percentage of Banks Violating Benchmark
Loan to Deposit Ratio	73.99	194.96	0.81	below 80%	37%
Net Noncore Funding Dependence	8.38	89.00	-97.48	below 20%	25%
Net Short-term Liabilities to Total Assets	3.70	61.06	-83.58	below 20%	16%
On Hand Liquidity to Total Liability	22.33	99.29	-35.69	above 8%	18%
Reliance on Wholesale Funding	6.00	99.86	0.00	below 15%	13%

A/L BENCHMARKS

#### Access your bank's Canary Ratios.

Olson Research Associates would like to extend to you an opportunity to view some key ratios that the regulatory agencies are using to identify risk at your bank. You'll need to provide us with an email address, the name of your bank, and your bank's FDIC certificate number. Call Rose Valerio at 888/657-6680 x262 or email her at info@olsonresearch.com. We'll have your bank's ratios available the same day as requested!

#### This is a complimentary service from ORA.

Banks should subject their interest rate risk management program to periodic independent review. The review should evaluate the bank's adherence to policies and risk limits. It should review the adequacy and accuracy of the interest rate risk measurement system used. Independent review findings should be reported directly to the board and senior management at least annually.

#### Scope of the review process

The 1996 Joint Policy Statement requires a bank to review their interest rate risk measurement process to ensure its integrity, accuracy, and reasonableness. This review should be conducted annually. The scope of the review should include the following five elements:

- 1) assessing the adequacy of and compliance with internal controls;
- 2) assessing the appropriateness of the risk measurement system;
- 3) a review of the data inputs and the model's processing component;
- 4) a review of the model's methodologies and assumptions; and,
- 5) a back test review of the model's outputs.

#### Independent review

Both the OCC and the FDIC offer guidance on who may perform the independent review of your model. The FDIC in their Manual of Exam Policies, states the review may encompass an evaluation by personnel independent of IRR management and that smaller, less complex banks may rely upon a less formal independent review process. In OCC Bulletin 2000-16 examiners define independent review as follows, "The personnel performing model validation should be as independent as possible from the personnel who construct the model...For smaller banks the validation policy should provide for as independent a review as practicable."

If you use A/L BENCHMARKS to measure your interest rate risk, your bank personnel meet the guidelines to perform an independent review. ORA has constructed the A/L BENCHMARKS model. We do not make your forecast assumptions. We are not responsible for maintaining or updating any of your internal accounting and reporting systems. Further we have no conflict of interest with your bank's other lines of business, e.g. we don't sell securities or other financial services to your bank. We are a firm independent of your bank's operations. Your bank may also wish to have an internal auditor participate in portions of the review or you may outsource the review.

#### **Review Process Guide**

The A/L BENCHMARKS Executive Report contains an entire section of information designed to aid the validation process. The section includes a crosscheck report to verify data inputs. It also includes an Interest Margin Simulation to demonstrate the model's mathematical accuracy. Finally, since interest rate risk measures rely on forecasted information, there are three back test reports that compare prior forecasts with actual bank performance.

#### Common Exam Issues Top 5 regulatory concerns

A summary of the top five issues regulators have found during examinations:

#### 1. Failure to capture optionality

A model should be able to adequately model the behavior of options embedded in the bank's balance sheet. A/L BENCHMARKS handles contractual options such as repricings and calls, as well as customer options to prepay loans and withdraw deposits early.

#### 2. 3rd party IRR measurement

Many banks treat their IRR reports from 3rd parties as a "black box" process. Or they believe that their model is one-sizefits-all (i.e. a "cookie cutter"). You can avoid these situations by reviewing the Methodologies and Assumptions used by the model, and by frequently addressing the inputs you supply.

## 3. Lack of understanding of core deposit behavior

A/L BENCHMARKS uses the industryaccepted method of decay analysis to model core deposits. Be sure you understand what decay factors are being used by your bank.

#### 4. No attention to inputs

Be sure to review your Managerial Assumptions every quarter. Don't just supply the inputs once and then use the same inputs every quarter. Inputs are likely to change from quarter-to-quarter. Quarterly review will help keep the model's output current and update-todate.

#### 5. Insufficient back testing

Since interest earnings at risk relies on a forecast of earnings, the forecasts used each quarter should be back tested from time-to-time to compare against actual experience.

The peer information in this document combined with individual performance measures for your bank will help you develop credible and usable asset/liability management policies. Such information reveals much about your current managerial philosophy and usually reveals unstated past policies that are effective and that should be continued. The information gathered while collecting historical data and developing a financial forecast, as available via A/L BENCHMARKS, may also suggest possible policy conflicts that must be resolved.

Asset/liability (A/L) management policies are senior management's formal written statements and guidelines that serve as a basis for financial decision-making. A/L policies assist in controlling performance and help educate line managers and others who may succeed senior management. To ensure that policies are written to achieve these desired results, keep the following guidelines in mind:

#### **Define Specific Areas for Policies**

Avoid tackling the entire subject of A/L management in one or two broad areas because it will lead to unnecessarily long and complex policies. Limiting policy areas to specific issues will simplify communication. Once specific areas for policies have been selected, writing generalized policy statements will be easier to accomplish.

#### Write Flexible Policy Statements

Most bankers have a natural aversion for formal, structured policy because it ties one's hands. Good policy, however, allows changing managerial strategy decisions.

#### A/L Policies Should Not Conflict with Other Policies

Policies in functional areas such as lending, investment, and operations should complement the A/L policies and should not be replaced by them.

#### Policies Must Comply with the Law

Banking regulations and laws are regularly being revised. Management should be careful to ensure that the A/L policies comply with all appropriate regulations.

#### Policy Performance Should Be Measurable

For the policies to be useful to the board of directors and management, a method of determining whether the policies are producing the intended financial performance must be available. Where possible, each policy statement should be accompanied by a guideline that can be used to monitor the effectiveness of the policy statement. Policies cannot be monitored without measurable guidelines; therefore, establishment of these guidelines becomes a natural focal point in policy development requiring considerable thought and attention.

#### **Policies are Unique**

Policy statements and guidelines must be tailored to each bank and to its current conditions. Each bank's policies must reflect its individual attributes: its size, marketplace, competition, customers, regulations, management philosophy, operational characteristics, and financial performance.

#### Format is Important

In order to be easily understood, asset/liability policy statements and guidelines must be presented in a well-structured format that enables visualization of the components. Although the substance of the policies is crucial for managing the bank, the form of presentation is also important.

## Developing your policies 7 Steps for action!

#### 1. Gather and Organize Data

historical performance, current period data, and forecast information

#### 2. Analyze Performance

consider the bank's market, economic environment, peer performance

#### 3. Identify Areas for Policy

Risk Policies

Asset Quality
Liquidity
Interest-Rate Sensitivity

Return Policies

Profitability
Growth

## 4. Review Existing Bank Policies

Examine policies in the areas of lending, investment, operations, and other functions that overlap asset/ liability management.

### 5. Decide Policy Format and Style

This should not be an afterthought. Decisions in the beginning on these questions will make the writing task faster and more effective.

#### 6. Write the Policy Statements

Include the guidelines and references. Identify monitoring procedures and responsibilities for each. Each of the six major categories should be completed in turn since the policies in a given area (e.g., liquidity) must be consistent.

## 7. Review the Completed Policies

Review for completeness, consistency, and redundancy. Since policy is usually written over a period of time, this step is necessary to ensure that the set of A/L policies is both clean and comprehensive. (Continued from page 11)

#### **Market Value of Investment Securities**

Although past trade values are not guaranteed for the future, tradition accepts the most recently reported trade value as an estimate of market value or "future worth". When recent trading values for investment securities are above or below the face value of an instrument, the difference is either a premium or a discount.

Such premiums or discounts indicate that since the time the financial instrument was created, a change has occurred in the market evaluation of risk and return. Generally, changes in credit quality can have an impact on premiums and discounts. Non U.S. Treasury securities are rated by various rating organizations and higher or lower ratings are determined by credit worthiness of the issuer. If the evaluation of credit worthiness changes after a security is issued, the "bond" rating will change and a premium or discount will be reflected in the trading price.

#### Fair Value of Loans

Generally, the calculated present value of discounted future cash flows serves as a fair estimate of market value. The future cash flows can be calculated, but selecting a discount rate for these cash flows requires judgment.

The notion of a discount rate is to adjust for the time value of money. Such adjustment is necessary because of risk—that the principal may not be repaid, that cash will be reinvested at a different rate of return in the future (interest rate risk), or that the investor may need cash before the principal is to be repaid (liquidity). If the risks remain the same as at the time the loan is made, the fair value is face value; if any of the risks have changed, or if the market generally has changed its definition of what is normal, the discount rate will be different from the earnings rate and a premium or discount will be computed.

#### **Deposit Premiums**

The primary technique used to determine the economic value of deposits has been discounted cash flows. The technique used to estimate cash flows for non-maturing deposits is to assume a decay rate (maturing pattern of existing dollar balances) based upon an analysis of historical account balances. The estimate for the discount rate is an adjusted alternative cost of funding.

The alternative source rate most often used is the rate at various term points on the U.S. Treasury yield curve. The adjustments are for expenses of deposit generation and for the credit quality of the bank. The expense adjustment is a matter of cost allocation and the credit quality adjustment is the difference between the federal funds borrowing rate for the bank and the one day rate on the US Treasury yield curve.■

#### (Continued from page 15)

instrument's present value will decline by approximately 1.5%. The use of the negative sign when stating interest rate elasticity reflects the inverse relationship between rate change and a change in an instrument's present value. Rates up, present value down. Rates down, present value up. Interest rate elasticity basically communicates by how much.

Duration (either version) can be used to measure the interest rate exposure of the economic value of a single instrument, a portfolio of instruments, or the bank's overall economic value of equity. For a given instrument, as indicated above, the duration is derived by weighting the present value of an instrument's cash flows by the time to receipt of those cash flows. The duration of a portfolio can be determined by simply adding the individual instrument durations and weighting them by their percentage of the total. The duration of the overall economic value of equity, is derived from the duration of all assets, liabilities, and off-balance sheet contracts.

Similar to the concept of GAP analysis, the inherent mismatch between the duration of assets, liabilities and off-balance sheet items determines the exposure of the bank's economic value of equity to changes in interest rates.

A bank with long-term assets funded by short-term liabilities (very typical for many community banks today), will generally have a duration of equity that is positive. The economic value of this bank will decline as interest rates rise. Conversely, a bank with short-term assets funded by long-term liabilities will generally have a negative duration of equity. The economic value of this bank will increase as interest rates rise.

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set Quality Risk l [ Printable Version ] -IOIX A/L Be Group B, given a 200bp Links View Favor A/L BEN **Industry Report** Access all prior quarters of industry Net Income and 4.8% of its Net Online 🕘 A/L Be information, create custom peer Home 🎙 Peer Data Demograph Elle Edt View Favorites Tools Links -Downloads groups, download data files, Interest Rate Elasticity tions (free) 🕨 Peer Group Sizes: 5886 Total Banks Liquidity Risk 🕨 History 
 5886
 Total Banks

 3429
 Group A (under \$100 mill

 1724
 Group B (\$100 - \$300 mill

 296
 Group C (\$300 - \$500 mill

 240
 Group D (\$500 million - \$

 181
 Group E (\$1 - \$10 billion)

 16
 Group F (over \$10 billion)
 verify ratio definitions and more. Asset Quality Risk ▶ Capital Adequacy ▶ gs & Equity VAR 🕨 Interest Rate Elasticity 🕨 Group B - \$100 - \$300 million Earnings Performance 🕨 Liquidity Risk 🕨 Balance Sheet Asset Mix D 1.39 1.85 16.78 1.57 12.79 0.67 2.65 3.74 1.64 Asset Quality Risk Balance Sheet Funding Mix 🕨 Capital Adequacy 15.20 High Media 0.88 Regulatory Measures Earnings Performance FDIC Region Balance Sheet Asset Mix 🕨 A/L Benchmarks Online D Group C - \$300 - \$500 296 participants lance Sheet Funding Mix 🕨 Mir Regulatory Measures Mean Std. D High Media 0.55 1.12 3.85 West 6% A/L Benchmarks Online 🕨 7.22 12.34 8,07 3,74 -0,19 Create your own custom peer 41 groups by state, region, Southw charter type, asset size, asset 3.0 mix, funding mix and others. Group A Group B Group C 🕘 A/L Benchmarks® Industry Report - Microsoft Inte 🚺 🚺 Int Links » Edit View Favorites Tools Help A/L BENCHMARKS **Industry Report** Online ne 30. 2003 You've seen how other banks with the same asset size perform. But how do you measure up to banks that have Home Downloads D the same asset mix...or funding characteristics? How eSubscriptions (free) 🖡 Save Selections do you compare to banks in your region or state? Use History **•** Custom Peer Group Information the A/L BENCHMARKS Online version of the Industry Earnings & Equity VAR ▶ Title: Custom Peer Group #1 Report to show your custom peer comparisons. Interest Rate Elasticity Description: Liquidity Risk Column title: \$75-\$125 Million Asset Quality Risk 🕨 A/L Benchmarks® Industry Report - Microsoft Internet Explo Institutions size Capital Adequacy 🕨 C Any size bank View Favorites Too Links ' Earnings Performance ORA Peer Group A (under \$100 million) A/L BENCHMARKS **Industry Report** Balance Sheet Asset Mix ORA Peer Group B (\$100-\$300 million) Online alance Sheet Funding Mix 🕨 ORA Peer Group C (\$300-\$500 million) ORA Peer Group D (\$500-\$1 billion) Regulatory Measures Home Liquidity Risk ORA Peer Group E (\$1-\$10 billion) A/L Benchmarks Online Downloads **>** Group B 100 - \$300 million 1724 participants ORA Peer Group F (over \$10 billion) State Banks eSubscriptions (free) & Trust Columbia, MD ē Custom: (specify in \$millions) History **>** Highest: 125 Lowest: 75 \$275 million Earnings & Equity VAR Types of institutions Interest Rate Elasticity 🕨 3.6 84.0 0.9 19.1 Uses of funds: - Any • 1.6 16.3 1.1 11.9 3.6 78.7 Liquidity Risk 🖡 0.8 19.3 4.0 84.0 16.3 -11.9 Sources of funds: - Any • 0.2 1.7 11.9 4.0 8.5 10.8 78.5 12.7 16.2 15.0 Asset Quality Risk 🕨 4.4 6.0 7.6 66.6 10.9 13.8 12.8 3.1 80.1 18.9 21.5 Charter Type: - Any • Capital Adequacy Charter Authority: State Charte Ŧ Earnings Performance 12.2 11.9 6.6 16.3 18.5 11.5 Balance Sheet Asset Mix 🕨 Corporation Type: - Any Ŧ alance Sheet Funding Mix 🕨 Age: - Any - -[ Printable Regulatory Measures D The average Bank in Peer Group B has: Region (Note: specifying a region will require a few extra moments when the peer group is constructed) A/L Benchmarks Online D - a Loan to Deposit Ratio of 78.7%; - 19.3% of its Assets in AFS Securities; Entire U.S Asset Liquidity O FDIC Region: - (none selected) • - Total Deposits to Total Assets of 84.0%; - and 16.3% Purch. Funds to Earning Assets. Funding Liquidity Fed Reserve District: - (none selected) -. . Analyzing Your Current Liquidity Position Selected States Although effective liquidity management requires looking ahead at expected future cash flows, it is also necessary to have an initial understanding of the bank's current position - No items selected < Add Alaska Alabama -

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communicate the inherent liquidity on the asset side of the balance sheet as well as the potential funding sources. A traditional asset liquidity measurement is the Loans to Deposits ratio. It is J. designed to depict the percentage of deposit funding that is "tied-up" in the loan portfolio which is

Typically, when evaluating this current liquidity position we start by constructing ratios that

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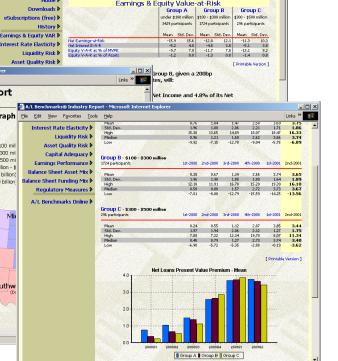
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#### 1st Quarter 2001

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Group C



Earnings & Equity Value-at-Risk

Allowance for Loan Losses A valuation reserve to provide for possible losses on loans. The reserve is a contra-asset which is subtracted from total loans to determine the net carrying value of loans for a bank's statement of condition. Also referred to as reserve for loan & lease loss.

**Asset Quality Risk** The potential loss of cash flows due to poor quality borrowers or counterparties; low investment grades of securities; or excessive concentration of similar assets and contracts.

Balance Measure See Growth Rate - Balance Measure.

**Balance Sheet Mix** Asset, liability, and equity accounts all stated as a percentage of total assets on the balance sheet date (EOP).

**Book Value** The amount for an item shown on the statement of condition which follows generally accepted accounting principles (GAAP). In many instances, book value is the original transaction value, plus or minus any premium, discount, or other amortization adjustment. For some items, however, GAAP now requires the use of fair value such as is the case for investment securities classified as available-for-sale.

**Borrowed Funds** Includes all funds acquired from creditors in the form of debt, payable in less than one year and usually at money market interest rates.

**Capital Adequacy** The level of capital funds required to support the institutional structure and to provide protection against unanticipated and excessive losses. In the A/L BENCHMARKS Peer Information a balanced growth of loans, assets, deposits, and capital; acceptable leverage; and risk-based capital of 10% or better (well capitalized) are indications of adequate capital.

**Cash** In the A/L BENCHMARKS Peer Information, cash includes till cash, cash reserve balances, deposits with other banks, and items in process of collection.

**Charge-offs** Loans which have been written off the books and charged against the allowance for loan losses.

Commercial Loans See Loans.

Consumer Loans See Loans.

**Core Deposits** Includes Non-interest Deposits, NOW and Savings Deposits, and Money Market Deposits.

**Cost of Funds** The cost of funds percentage is total annualized interest expense divided by total average interestbearing funds, including deposits and all borrowed funds. **Deposit Present Value Premium** The amount by which the book value of total deposits exceeds the computed present value (market value) of total deposits.

For purposes of the A/L BENCHMARKS Peer Information, the present values of the various deposits were computed using the discounted cash flow method. The maturity assumptions for non-maturing deposits (decay factors) are indicated by the duration estimates (IRE) for each deposit classification.

Duration See Interest Rate Elasticity.

**Earnings at Risk** See Net Earnings at Risk and Net Interest Earnings at Risk

**Equity Value at Risk** The potential adverse change in the present value (market value) of total equity (MVPE) arising from an assumed change in interest rates.

For the A/L BENCHMARKS Peer Information, the base MVPE is determined by subtracting the present value (market value) of total liabilities from the present value (market value) of total assets. Present values for assets and liabilities are either current quoted market prices or discounted cash flows using current market rates. The potential adverse impact on present value of equity is calculated by using a +/-200 basis point change in interest rates; assuming a parallel shift in the treasury yield curve; and simulating changes in repricing, prepayments and other rate-driven parameters which effect the level and timing of cash flows.

**Growth Rate** (Annual growth rate) The year-to-year change in the account balance expressed as a percentage of the prior year's balance.

**Growth Rate - Balance Measure** A measure of the difference between the highest and lowest of four growth rates (loans, assets, deposits, and equity). The smaller the difference, the better the balance among the four growth rates.

For example, if all four of the growth rates were exactly 3.76%, then the difference between the high and low percentage is zero and the growth rates are in perfect balance. Alternatively, if the four growth rates were 23.5, 18.2, 9.8, and 2.3, the difference between the high and the low percentage is 21.2.

Interest Margin (\$) See Net Interest Income.

**Interest Margin (%)** Annualized net interest income on a taxable equivalent basis divided by average earning assets.

**IRE** See Interest Rate Elasticity.

**Interest Rate Elasticity (IRE)** IRE is a measure of interest rate sensitivity. It is the expected percentage change in the present value (market value) of a financial instrument or portfolio of financial instruments if market yields increase 100

#### Glossary of Terms (continued) Industry Report

#### basis points.

In addition, IRE can be used to estimate Macaulay's duration. Macaulay's duration is the present value weighted average time until all the cash flows from a financial instrument or portfolio will be received or repriced to current market rates. As a measure of Macaulay's duration, the IRE percentage is used to express the number of years to receive or reprice cash flows.

**Interest Rate Risk** The potential economic losses due to future interest rate changes. Economic losses can be reflected as a loss of future net interest income (earnings at risk); a loss of current fair market values (value at risk); or both.

**Liquidity Risk** The potential shortage of cash funds to meet deposit withdrawals, loan disbursements, or other obligations on a timely basis.

**Loan Loss Provision** The expense item on a bank's statement of income that reflects both current and anticipated loan loss experience (sometimes referred to as provision for loan loss).

**Loans** For the A/L BENCHMARKS Peer Information, loan definitions are consistent with call report definitions as follows: - Loans is total loans.

- Total Loans is gross loans and leases without offset by the allowance for loan losses.

- Net Loans is total loans less the allowance for loan losses.

- Commercial Loans includes commercial loans, foreign loans, agriculture loans, and lease contracts.

- Consumer Loans includes consumer installment loans, credit cards loans, and all other consumer loans except real estate loans.

- Real Estate Loans includes commercial, residential,

construction, multi-family, agriculture real estate, home equity, and all other loans secured by real estate collateral.

**Mean** The sum of a group or sample of values divided by the number of observations in the group or sample.

**Median** The value of the middle or center-most item within a group or sample.

**MVPE** (Market Value of Portfolio Equity) The present value (market value) of total assets, less the present value (market value) of total liabilities.

For purposes of the A/L BENCHMARKS Peer Information, market values of assets and liabilities are quoted market prices or calculated present values for all financial instruments. For non-financial instruments, the book or carrying value is assumed to be market value.

**Net Borrowed Funds** Short-term borrowed funds less short-term investments. A negative value represents net funds sold. When used in the ratio of net borrowed funds to equity,

**Net Charge-Offs** Charge-offs less recoveries. When used in the ratio of net charge-offs to total loans, net charge-offs is divided by average total loans.

**Net Earnings at Risk** The potential adverse change in net income arising from a change in interest rates, measured over a one-year forecast horizon.

For the A/L BENCHMARKS Peer Information, the base net income is computed using a current or constant forecast of statement of condition balances, market interest rates, and noninterest items. The potential adverse net income is calculated by using a +/-200 basis point change in interest rates; assuming a parallel shift in the treasury yield curve; simulating changes in repricing, prepayments and other rate-driven parameters which impact cash flows; and assuming all non-interest items will not change.

**Net Interest Earnings at Risk** The potential adverse change in net interest income arising from a change in interest rates, measured over a one-year forecast horizon. For the A/L BENCHMARKS Peer Information, the base net interest income is computed using a current or constant forecast of statement of condition balances, market interest rates, and non-interest items. The potential adverse net interest income is calculated by using a +/-200 basis point change in interest rates; assuming a parallel shift in the treasury yield curve; and simulating changes in repricing, prepayments and other ratedriven parameters which impact cash flows.

**Net Interest Income** Interest income from all earning assets less interest expense on all interest bearing deposits and liabilities. Generally, interest income includes fees on loans, amortization of premiums on securities, and accretion of discounts on securities.

**Net Overhead** Non-interest expense minus non-interest income, exclusive of security gains/losses. When expressed as a percentage, the annualized dollar amount of net overhead is divided by average earning assets.

**Non-Core Funding Dependence %** A measure which shows the relationship between long-term earning assets and non-core liabilities net of short-term investments. Long-term earning assets are investment securities which mature beyond one year, other real estate owned, and net loans reduced by acceptances from other banks and commercial paper. Non-core liabilities are time CDs and open account time deposits greater than \$100K, other borrowed money, foreign office deposits, brokered CDs less than \$100K, securities sold under agreement to repurchase, federal funds purchased, and demand notes issued to the U.S. Treasury. Short-term investments are interest bearing bank balances, federal funds sold, securities purchased

#### 1st Quarter 2001

#### (continued) Glossary of Terms Industry Report

under agreement to resell, debt securities with remaining maturity less than one year, acceptances from other banks, and commercial paper.

**Non-Performing Assets** Includes non-accruing, renegotiated, and 90-days or more past due loans. Non-Performing assets also includes other real estate owned and other foreclosed loan collateral.

**Operating Efficiency Ratio** Non-interest expense divided by bank revenue.

For the A/L BENCHMARKS Peer Information, bank revenue is net interest income (tax equivalized) plus non-interest income, exclusive of security gains/losses.

**Purchased Funds** Includes all short-term borrowed funds plus all large deposits. Purchased funds are considered highly sensitive to money market interest rates.

**Recoveries** Loans recovered which had been written off the books and charged against the allowance for loan losses.

**Reserve for Loan & Lease Loss** See Allowance for Loan Losses

Real Estate Loans See Loans.

**Return on Assets** Annualized net income divided by average total assets.

**Return on Equity** Annualized net income divided by average total equity.

**Risk-Weighted Assets** Those bank assets and off-balance sheet financial instruments which are included by federal banking regulations in the calculation of risk-based capital ratios.

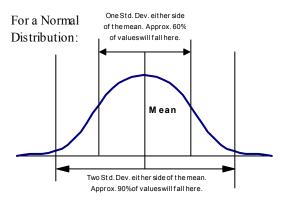
#### Short-Term Non-Core Funding Dependence % A

measure which shows the relationship between long-term earning assets and short-term non-core liabilities net of shortterm investments.

Long-term earning assets are investment securities which mature beyond one year, other real estate owned, and net loans reduced by acceptances from other banks and commercial paper.

Short-term non-core liabilities are the portion of time CDs and open account time deposits greater than \$100K, other borrowed money, foreign office deposits and brokered CDs less than \$100K which mature within one year, plus securities sold under agreement to repurchase, federal funds purchased, and demand notes issued to the U.S. Treasury. Short-term investments are interest bearing bank balances, federal funds sold, securities purchased under agreement to resell, debt securities with remaining maturity less than one year, acceptances from other banks, and commercial paper.

**Standard Deviation** The statistical measure of variance from the mean representing the dispersion of data (distance) from the mean.



Std. Dev. See Standard Deviation.

**Tier 1 Risk-based Capital** Tier 1 capital divided by riskweighted assets. Tier 1 capital consists of total common equity adjusted for cumulative preferred stock and goodwill.

**Total Risk-based Capital** Total capital divided by riskweighted assets. Total capital is tier 1 capital plus a defined portion of the allowance for loan losses, subordinated long-term debt, and miscellaneous other qualifying equity or near equity items.

Total Loans See Loans.

**Treasury Yield Curve** The treasury yield curve represents the relationship of yields on U.S. Government debt instruments of various maturities at a point in time. The treasury yield curve, also known as the term structure of interest rates, is charted daily in The Wall Street Journal and other business publications.

**Volatile Liability Dependence %** A measure which shows the relationship between long-term earning assets and net short-term funds.

Long-term earning assets are investment securities which mature beyond one year and all loans. Short-term funds are large time deposits, foreign office deposits, federal funds purchased, securities sold under repurchase agreements, trading liabilities net of revaluation losses, and other borrowings maturing within a year. Net short-term funds are net of short-term investments.

**Yield on Earning** Assets Annualized and taxable equivalent gross interest income on all earning assets (loans and investments) divided by average earning assets.

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## A/L BENCHMARKS

Standards for Asset/Liability Management

Ne	et Int. Earnings at Risk	Income Shock Sur	nmary		Jui	y 1, 2001 - June	30, 2002
pot	t Interest Earnings at Risk is the ential adverse change in net interest ome arising from assumed changes in	see page 39 for more details	Base Amount	Rates UP Amount	(+200bp) % Chg	Rates DN Amount	i (-200bp % Ch
	erest rates. The potential change is	Short-Term Investments	52	81	55.77	18	-65.38
	asured over a one-year forecast time	Securities	4,855	4,951	1.99	4,661	-4.00
	izon. The A/L BENCHMARKS model	Loans & Leases	15,367	16,559	7.76	14,148	-7.93
	culates Net Interest Earnings at Risk	Interest Income	20,273	21,592	6.51	18,827	-7.13
	ng a +/- 200 basis point change in erest rates; assuming a parallel shift in			626		525	
	treasury yield curve. The model	Transaction Deposits Certificates of Deposit	545 9,252	626 10.794	14.79 16.67	525 7.694	-3.67 -16.84
	ulates changes in repricing,	Borrowed Money	9,252	1.153	42.70	528	-34.65
	payments, call-options, and other rate- ven parameters that affect the level and						
	ing of cash flows.	Interest Expense	10,605	12,573	18.55	8,747	-17.52
	mple Bank & Trust has a Net Interest	Net Interest Income	9,668	9,019	-6.71	10,079	4.25
Ea	rnings at Risk of -6.71. This analysis	Balance Sheet Sh	ock Summ	arv		June	30, 2001
	we the bank's worst case to be in the ng rate environment. The rate shock up	see page 41 for more details	Base	-	(+200bp)	Rates DN	
	was the bank's Net Interest Earnings		Present	Present	(12000р)	Present	(-2000p)
	entially decreasing by 6.71%, while the		Value	Value	% Chg	Value	% Ch
	e shock down shows a potential increase	Short-Term Investments	0	0	0.00	0	0.00
of 4	4.25%.	Securities	84,683	80,510	-4.93	87,981	3.89
		Net Loans	181,715	177,358	-2.40	186,171	2.45
	uity at Risk	All Other Assets	17,863	17,863	0.00	17,863	0.00
	uity Value at Risk is the potential verse change in Economic Value of	Total Assets	284,261	275,730	-3.00	292,016	2.73
	uity (EVE) arising from assumed	-					
	inges in interest rates. EVE is	Deposits	233,708	229,888	-1.63	237,772	1.74
	netimes referred to as Present Value of	Borrowed Money Other Liabilities	20,568 1.862	20,260 1,346	-1.50 -27.71	21,035 2,276	2.27
	uity. For Sample Bank & Trust the sent value of equity is \$28,124. This	Other Liabilities	1,002	1,340	-21.11	2,270	22.22
am	ount is shown on the Balance Sheet	Total Liabilities	256,137	251,494	-1.81	261,082	1.93
	ock Summary report, on the line "Total	Total Off-Balance Sheet	0	0	0.00	0	0.00
	uity", under the column entitled "Base sent Value". To measure the potential	Total Equity	28,124	24.236	-13.82	30,934	9.99
	/erse change, the model recalculates			,			
	E using the same rate shock approach	Interest Rate Sens	itivity	F	auity and N	et Interest Incor	no at Rick
	described above, i.e. +/- 200 basis nts.		1		···· ··· ···		
	mple Bank & Trust has an Equity at		9.99			n a +/- 200 ba	
	sk of -13.82%. This analysis shows the			4.25		n a +/- 200 bi point shock	asis
	k's worst case to be in the rising rate					point shock	
	vironment. The rate shock up shows the				_		
	k's EVE potentially decreasing by 82%, while the rate shock down shows	-6.71				ity (EVE) at R	
	82%, while the rate shock down shows otential increase of 9.99%.	-13.82			Inte	rest Income at	Risk
a p	orential increase of 7.7776.	Rates Up (+200bp)	Rates Dov	vn (-200bp)			
	BENCHMARKS Executive Report 07/2001					018161-C994	4321-EO9U 12:11 PI

measure,

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