A+ ACCOUNTING AND ALCO

VBA Management Development Program

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TODAY'S SESSION AGENDA

Bank Financial Statements

Financial Ratios

UBPR

Worksheet

ALCO Policy and Agenda

Mock ALCO Meeting





FINANCIAL STATEMENTS

Road Map telling us about the firm's past, where it is now, and where it is headed in the future.

BANK FINANCIAL STATEMENTS

OStatement of Condition
Balance Sheet

Income Statement



REPORT OF CONDITION BALANCE SHEET

The Balance Sheet of a Bank shows its Assets, Liabilities, and Stockholders' Equity.

ACCOUNTING EQUATION

Assets = Liabilities + Owners' Equity

Balance Sheet Must Balance!

BALANCE SHEET

Assets = OWN

Loans are Assets

•Assets are <u>USES</u> of funds

Usually carried at original cost

Liabilities = OWE

Debts or obligations

Deposits are Liabilities

•Liabilities are **SOURCES** of funds

STOCKHOLDERS' EQUITY OR CAPITAL

OWNERS

- Common Stock
- Paid in Capital
- Retained Earnings (Undivided Profits)
- Accumulated Other Comprehensive Income

BALANCE SHEET

- Loans are Assets
- Assets are <u>USES</u> of funds
- O Deposits are Liabilities
- Liabilities are <u>SOURCES</u>
 of funds

INCOME STATEMENT

The income statement lists all categories of income and expenses. This statement details the financial performance and determines the amount of profit (loss).



INCOME STATEMENT

The Income Statement shows the cost to acquire funds and generate revenues from its uses.

How much we <u>paid</u> for deposits versus how much we <u>earned</u> on loans.



INCOME STATEMENT COMPONENTS

- + Interest Income
- Interest Expense
- = Net Interest Income
- Provision for loan losses
- + Non-interest income
- Non-interest expense
- Income before income taxes (pre-tax)
- <u>Income Taxes</u>
- = Net income (loss)

FOUR KEY PROFITABILITY RATIOS IN BANKING

ROA

Indicator of managerial efficiency.

It tells how capable management is at converting assets to earnings.

Net Income / Average Assets

ROE

Measure of rate of return flowing to shareholders.

The benefit that stockholders have received from investing their funds in the company.

Net Income/Average Equity

LOAN-TO-DEPOSIT RATIO



Measure of Liquidity



Net Loans/Total Deposits

EARNINGS PER SHARE

Income per share of common stock

Net Income/Average Shares Outstanding

IT IS BEST TO COMPARE FINANCIAL INSTITUTIONS OF SIMILAR SIZE.



UBPR

O The Uniform Bank Performance Report Provided by U.S. Federal Regulators so that Analysts Can Compare the Performance of One Bank Against Another

O Based on quarterly reports.

- Interest Income
- Interest Expense
- Net Interest Income
- Net Income
- Comparison to Peer
- Asset Growth
- % of Cash Dividends Paid

UBPR

WHAT IS ALCO?

Asset Liability Committee
Asset Liability Management

WHAT DOES ALCO DO?

Asset-Liability Management:

Determines Interest Rates
Measures Interest Rates and
Controls Interest-Sensitivity

ALCO POLICY









OBJECTIVE & PURPOSE

PROCEDURES

POLICY RISK LIMITS

LIQUIDITY PLAN







INTEREST RATE RISK



STRESS TESTING

ASSET-LIABILITY MANAGEMENT OBJECTIVE

Stability of the market value of Net Interest Income and Equity

Ensure sufficient liquidity

Pricing stability

ASSET-LIABILITY MANAGEMENT PURPOSE

To control a Bank's sensitivity to changes in market interest rates

Limit its losses/maximize profits in its Net Income and Equity

Profit Planning

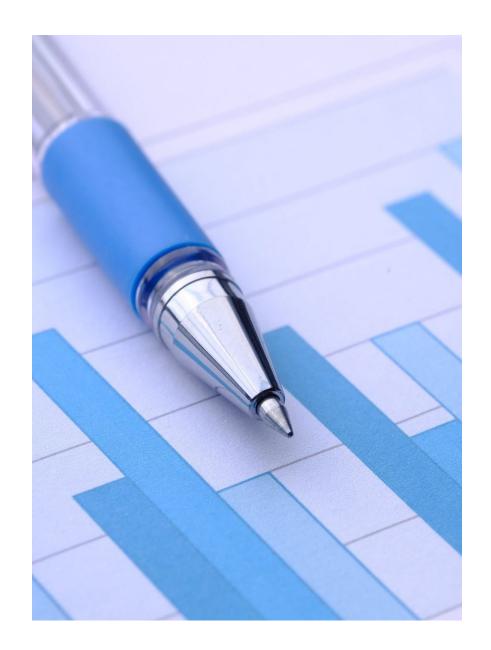
ALM GOALS

- Asset Liability Management is a management process with the goals of:
 - Maximizing and growing Net Interest Income
 - Minimizing and controlling risks
 - Maintaining adequate liquidity & capital



RESPONSIBILITIES

- Must manage routine and extraordinary fluctuations in interest rates
 - Must remain Well Capitalized by BASEL III standards
 - Must keep interest rate risk within regulatory guidelines
 - Must have a plan when crisis circumstances appear



ALCO COMMITTEE COMPOSITION

- OMembers
- **OCEO**
- **OCFO**
- ODeposit Gatherers
- **O**Lenders
- **OSenior Management**

ALCO MEETING TOPICS

- National and Local Economy
- Loan and Deposit Demand
- O Investment Portfolio
- Monitoring Tools
- O Policies

NET INTEREST SPREAD

	Total	Avg Rate
Loans	455,443	4.7481%
VISA Credit Cards	2,072	12.2925%
Total Loans	457,516	4.7823%
Investments	112,709	1.8093%
Fed Funds Sold	304	2.2000%
FRB Excess Reserve	125,747	2.4000%
Total Other Investments	238,759	2.1209%
TOTAL ASSETS	696,274.4	3.8697%
In Thousands		
Demand Deposits	348,014	0.0903%
Savings	113,894	0.1525%
Certificates of Deposit	187,248	0.7767%
Borrowings	-	0.0000%
TOTAL LIABILITIES	649,156	0.2992%
Net Interest Spread		3.57%

EXCESS LIQUIDITY

BANKS ARE AMPTY LIQUID!



LIQUIDITY

The Availability of Cash in the Amount and at the Time Needed at a Reasonable Cost



GUIDELINES FOR LIQUIDITY MANAGERS

Priorities and
Objectives for
Liquidity Management
Should be Clear

Liquidity Needs Must be Evaluated on a Continuing Basis Cash Flow Projection

SUPPLIES OF LIQUID FUNDS (SOURCES)

Incoming Customer Deposits

Revenues from the Sale of Non-deposit Services

Customer Loan Repayments

Sales of Bank Assets

Borrowings from the Money Market

Customer Deposit Withdrawals

Credit Requests from Quality Loan Customers

Repayment of Non-deposit Borrowings

Operating Expenses and Taxes

Payment of Stockholder Dividends

DEMANDS FOR LIQUIDITY (USES) With Deficit -must decide how
to raise
additional funds

With Surplus –
must decide how
to invest and
make profit

ALCO DECISIONS

ESSENCE OF LIQUIDITY MANAGEMENT

There is a Trade-Off Between Liquidity and Profitability. The More Resources Tied Up in Readiness to Meet Demands for Liquidity, the Lower is the Financial Firm's Expected Profitability.

LIQUIDITY EARLY WARNING INDICATORS

Indicator	Quantified Metric for Warning	Actual	Management Comment
Loan-to-Deposit Ratio	>90%	98%	Above warning status but less than 100%;
			Improvement since 6-30-19 exam
Net Charge-Off Loss	>0.75% of total loans	0.06%	Excellent ratio. Low concern
Deposit Withdrawals	2.5% quarterly decrease in	9.6% Annualized	Deposit growth exceeds budget expectations
	deposits or loss of significant	Growth Rate	
	customer		
Deterioration of earnings	5% below budget	12.06% under	Through 1/31, less than anticipated loan
		budget	growth for January
Policy Liquidity Ratios	Cash ≥ 2.0%	6.31%	In compliance
	Liquid Assets ≥10.0%	9.07%	FDIC expressed concern since less than 10%
	With Borrowing Capacity≥15.0%	17.57%	In compliance
FDIC Liquidity Exam	Desire ≥ 10%	8.90%	Under desired goal with plan of action in place
Ratio			to improve ratios

WHY BANKS AND THEIR COMPETITORS FACE SIGNIFICANT LIQUIDITY PROBLEMS



Imbalances Between
Maturity Dates of Their
Assets and Liabilities
Maturity Mismatch



High Proportion of Liabilities Subject to Immediate Repayment



Sensitivity to Changes in Interest Rates

ALCO STRATEGIES FOR LIQUIDITY



Asset Liquidity
Management or
Asset Conversion
Strategy



Liability
Management
Strategy or
Borrowed Liquidity



Balanced Liquidity Strategy

DEPOSIT CAMPAIGN





DEPOSIT CAMPAIGN TO FUND LOANS BROKERED DEPOSITS



PUBLIC FUNDS

DEPOSITS

1 source of funds at most banks

TWO KEY ISSUES



Raise funds at the lowest possible cost



Ensure enough deposits to support loans, investments, and withdrawals

CORE DEPOSITS

A Stable Base of Funds that is Not Highly Sensitive to Movements in Market Interest Rates and Which Tend to Remain with the Bank

Less vulnerable to swings in interest rates

HOW DO YOU PRICE DEPOSITS?

Price to attract deposits <u>AND</u> to remain profitable.

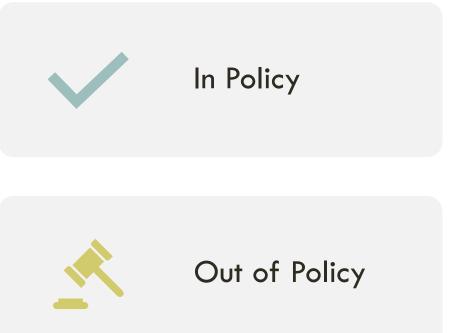
SOURCES OF BORROWED FUNDS

Federal Funds Purchased

Securing Advance from the Federal Home Loan Bank

Borrowing Reserves from the Discount Window of the Federal Reserve

CASH FLOW PROJECTION EXAMPLES



LIQUIDITY FUNDING SOURCES

- OFed Funds Overnight Purchase
- ODeposit Listing Service
- **OFHLB** Advances
- OBrokered Deposits
- **OSell Investments**

ADVANCES FROM THE FEDERAL HOME LOAN BANK MUST BE A MEMBER

 Allows Institutions to Use Home Mortgages as Collateral for Advances

•A Way to Improve the Liquidity of Home Mortgages and Encourage more Lenders to Provide Credit

•Maturities Range from Overnight to More than 20 Years

•FHLB Can Borrow Cheaply and Pass Savings to Institutions

The Combined Use of Liquid Asset Holdings (Asset Management) and Borrowed Liquidity (Liability Management) to Meet Liquidity Needs

BALANCED LIQUIDITY MANAGEMENT STRATEGY

CAPITAL PLAN



Banks will maintain capital ratios that will allow it to adequately protect against risk of loss



the ability to withstand future crisis events



the ability to handle growth in assets.

REGULATORY CAPITAL RATIOS

Community Bank Leverage Ratios

Capital Ratio	Opt-In
	Required
	Ratio
Community Bank Leverage Ratio (2022)	≥9.0%

Traditional Capital Ratios (larger institutions)

Capital Ratio	Well
	Capitalized
Tier 1 Capital Leverage Ratio to Ave Assets	≥5.0%
Common Equity Tier 1 to Risk-Weighted Assets	≥6.5%
Tier 1 Capital to Risk-Weighted Assets	≥8.0%
Total Capital to Risk-Weighted Assets	>10.0%

CAPITAL CONTINGENCY PLAN

Dividend Payment Curtailment

Raising New Capital

Dividend Reinvestment Plan

Subordinated Debt

STRESS TESTING

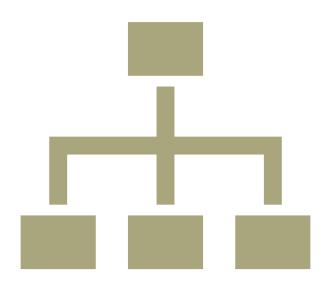


Liquidity Stress Test



Capital Stress Test

STRETCH BREAK



ALCO MANAGEMENT

HISTORICAL VIEW OF ASSET-LIABILITY MANAGEMENT

Asset Management Strategy

•Took deposits for granted.
Decision was "what asset do we invest the deposits?"

HISTORICAL VIEW OF ASSET-LIABILITY MANAGEMENT

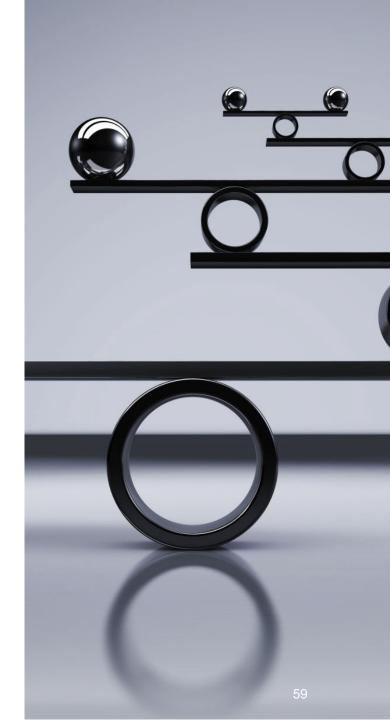
Liability Management Strategy

• Shift in thinking "Deposits aren't the only way to fund loans. Let's use sources with the cheapest price"

HISTORICAL VIEW OF ASSET-LIABILITY MANAGEMENT

Funds ManagementStrategy

More balanced theory today



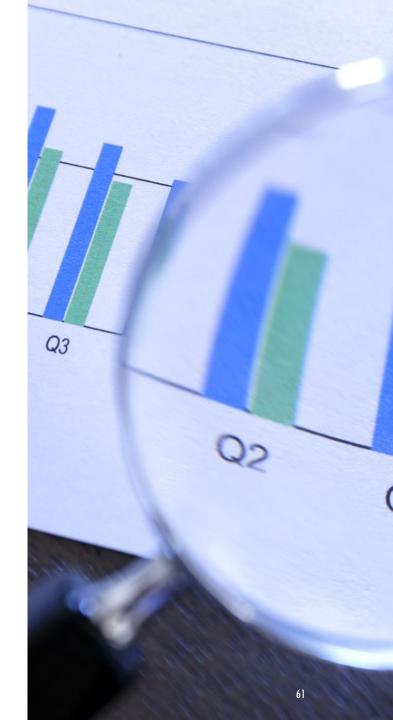
FUNDS MANAGEMENT STRATEGY OBJECTIVES

- Control volume, mix, and cost of assets and liabilities
- Maximize spread between revenues and costs



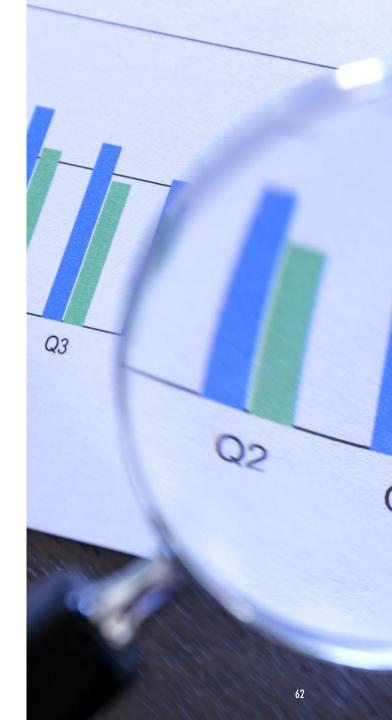
INTEREST RATE RISK

IRR is the exposure to the Bank's current and future earnings and to the Bank's equity capital which can occur from dramatic and adverse movements in interest rates.



INTEREST RATE SENSITIVITY DEFINED

Reflects the degree to which changes in interest rates can positively or adversely affect earnings or the economic value of equity.



The Danger that Shifting Interest Rates May Adversely Affect a Bank's Net Income, the Value of its Assets or Equity

INTEREST RATE RISK

WHEN MARKET INTEREST RATES CHANGE

- SO DO....
 - O Loan Rates
 - O Deposit Rates



KEY QUESTIONS

OHow quickly do loan and deposit rates change?

OWhich side re-prices faster?

OWhat impact will this have on net interest income?



INTEREST-SENSITIVE ASSETS

OShort-Term Securities/Investments

OVariable-Rate Loans Made by the Bank to Borrowing Customers

INTEREST-SENSITIVE LIABILITIES

- Certificates of Deposit
- O Money Markets Deposit Accounts
- O Savings Deposit Accounts
- O Variable-Rate Deposits



RSA - RSL > 0

ASSET-SENSITIVE BANK HAS:

Positive DollarInterest-Sensitive Gap

O Positively Gapped = Asset Sensitive



RSA - RSL < 0

LIABILITY SENSITIVE BANK HAS:

Negative DollarInterest-Sensitive Gap

O Negatively Gapped = Liability Sensitive

MEASUREMENT TOOLS

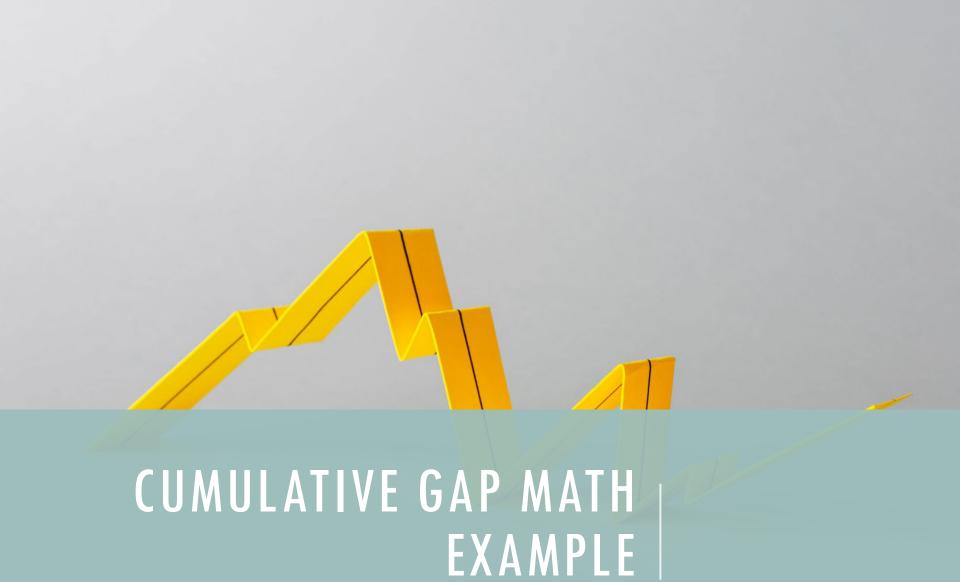
Static GAP Analysis

Cumulative Gap Position



CUMULATIVE GAP

The total difference in dollars between those bank assets and liabilities which can be re-priced over a designated time period



UNDERSTAND CORRELATION ASSET SENSITIVE BANKS

Because assets re-price quicker than liabilities:

•When Interest Rates <u>Increase</u>... Net Income <u>Increases</u>

 When Interest Rates <u>Decrease</u>... Net Income <u>Decreases</u>

UNDERSTAND CORRELATION LIABILITY SENSITIVE BANKS

•Because liabilities re-price quicker than assets:

•When Interest Rates <u>Increase</u>... Net Income

•When Interest Rates <u>Decrease</u>... Net Income

UNDERSTAND CORRELATION LIABILITY SENSITIVE BANKS

Because liabilities re-price quicker than assets:

•When Interest Rates <u>Increase</u>... Net Income <u>Decreases</u>

 When Interest Rates <u>Decrease</u>... Net Income <u>Increases</u>

GAP POSITIONS AND THE EFFECT OF INTEREST RATE CHANGES ON THE BANK

Asset-Sensitive Bank

- Olf Interest Rates Rise
 Then NIM Rises
- Olf Interest Rates Fall
 Then NIM Falls

Liability-Sensitive Bank

- Olf Interest Rates Rise
 Then NIM Falls
- Olf Interest Rates Fall
 Then NIM Rises

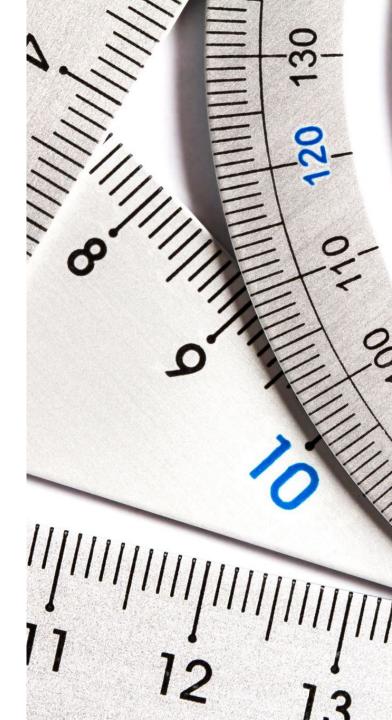
NEUTRAL INTEREST-SENSITIVE GAP

Dollar Interest-Sensitive Gap is ZeroRSA-RSL = 0

When Interest Rates Change in Either
 Direction - NIM is Protected and Will Not
 Change

MEASUREMENT TOOLS

Simulation Modeling Example



AGGRESSIVE INTEREST-SENSITIVE GAP MANAGEMENT

Expected Change in Interest Rates	Best Interest- Sensitive Gap Position	Aggressive Management's Likely Action
Rising Market Interest Rates	Positive IS Gap	Increase in IS Assets Decrease in IS Liabilities
Falling Market Interest Rates	Negative IS Gap	Decrease in IS Assets Increase in IS Liabilities

HOW DO ALCO COMMITTEES RESPOND TO IRR?

- Written Policies+ 25% rate sensitivity
- Base decisions on expectations (pricing loans and deposits)



IMPORTANT DECISION REGARDING INTEREST SENSITIVITY GAP

OManagement Must Choose the Time Period Over Which NIM is to be Managed

- OManagement Must Choose a Target NIM
- To Increase NIM Management Must Either:
 - O Develop Correct Interest Rate Forecast
 - Reallocate Assets and Liabilities to Increase Spread



NIM INFLUENCED BY:

- *******
- Changes in Interest Rates Up or Down
- Changes in the Spread Between Assets and Liabilities
- \$ Changes in the Volume of Interest-Sensitive Assets and Liabilities
- Changes in the Mix of Assets and Liabilities
- Health Pandemic and PPP Loan Rates!

PROBLEMS WITH INTEREST-SENSITIVE GAP MANAGEMENT

Interest Rate Attached to Bank Assets and Liabilities Do Not Move at the Same Speed as Market Interest Rates

Point at Which Some Assets and Liabilities are Re-priced is Not Easy to Identify

MOCK ALCO MEETING



CONCLUSION

Q&A