



Financial Literacy for Directors - Part 1

By Tim Harrington, CPA



TIM Touch Inspire Motivate

About Tim Harrington, CPA

Graduate of Gonzaga University

27 years credit union experience

35 years business/consulting experience

Consulted on over 1,500 credit union projects

A regular speaker at CUNA and League Conferences, speaking at over 1,000 events in all 50 states and 3 countries

Former Chairman of the Board of successful \$150 million dollar credit union



Financial Literacy Regulation

Federal Reg 701.4(b)(3)

Montana SB 53 Section 1(1)(c)

At the time of election or appointment, or within a reasonable time thereafter, not to exceed six months, have at least a working familiarity with basic finance and accounting practices, including the ability to read and understand the Federal credit union's balance sheet and income statement and to ask, as appropriate, substantive questions of management and the internal and external auditors

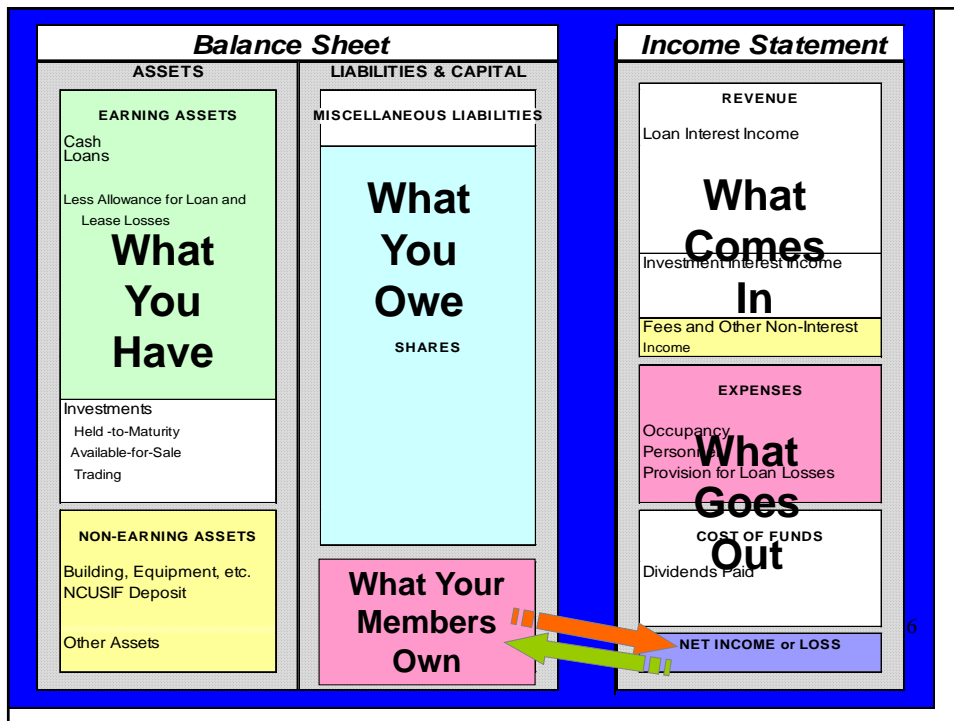
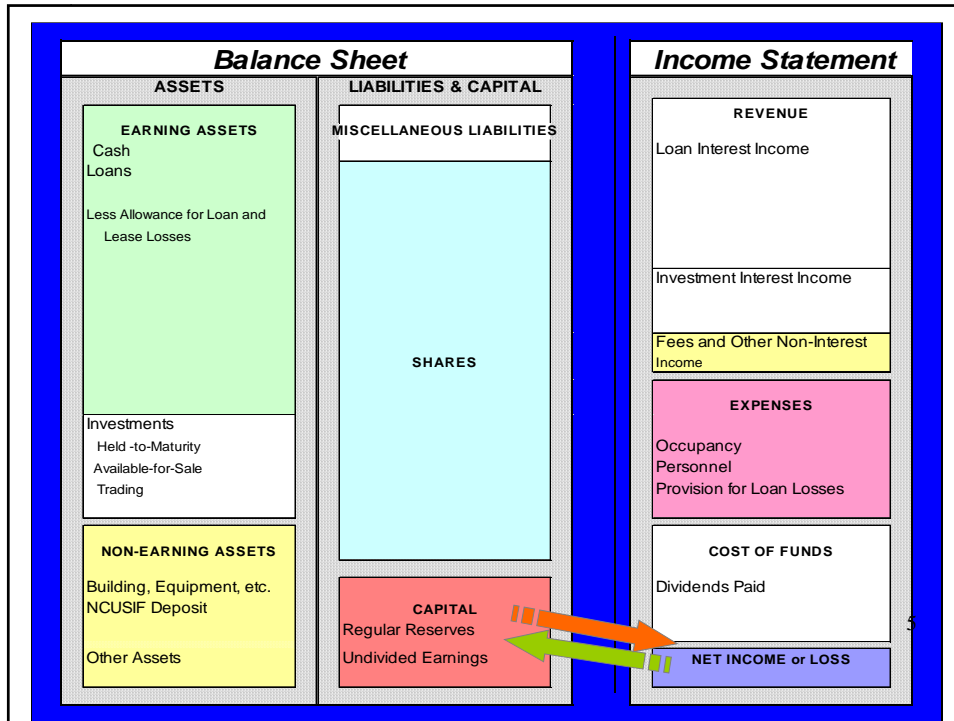
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Financial Literacy Policy

Should identify:

- Risks within Your credit union
- Level of financial literacy Directors need
- Individual analysis and plan for each Director in order to achieve financial literacy
 - Can consider past education or experience
 - CPA, Financial background, etc.
 - Should include supplemental education where deficiencies are identified

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Balance Sheet		Income Statement
ASSETS		
EARNING ASSETS		REVENUE
Cash	\$ 16,000	INTEREST INCOME
LOANS		Loans \$11,000
Unsecured	13,500	Investments 1,500
Vehicle	110,000	TOTAL 12,500
Real estate	30,000	
Total loans	153,500	
Less allowance	(1,100)	COST OF FUNDS
Net Loans	152,400	DIVIDENDS PAID 4,200
		Net Interest Income 8,300
INVESTMENTS		EXPENSES
Held to maturity	50,000	Provision for Loan Losses 1,000
Avail for sale	5,000	Occupancy } 7,800
TOTAL	55,000	Personnel } 7,800
Less Allowance for Investment Losses		Systems } 7,800
		TOTAL 8,800
		NON-INTEREST INCOME
NON-EARNING ASSETS		Fee Income 700
Property and equip	1,500	Service Charges 800
NCUSIF	2,000	Other Income 400
Other assets	100	TOTAL 1,900
TOTAL ASSETS	\$ 227,000	NET INCOME \$ 1,400
LIABILITIES & CAPITAL		
MISCELLANEOUS LIABS		
Miscellaneous Liabs	\$ 15,100	
SHARES		
Share savings	68,000	
Share drafts	35,000	
Money market	45,000	
IRAs	41,000	
CDs	4,000	
Total Shares	193,000	
CAPITAL		
Regular reserve	8,000	
Undivided earn	10,900	
Total Capital	18,900	
TOTAL LIABS/CAP	\$ 227,000	

What are the most important items to watch?

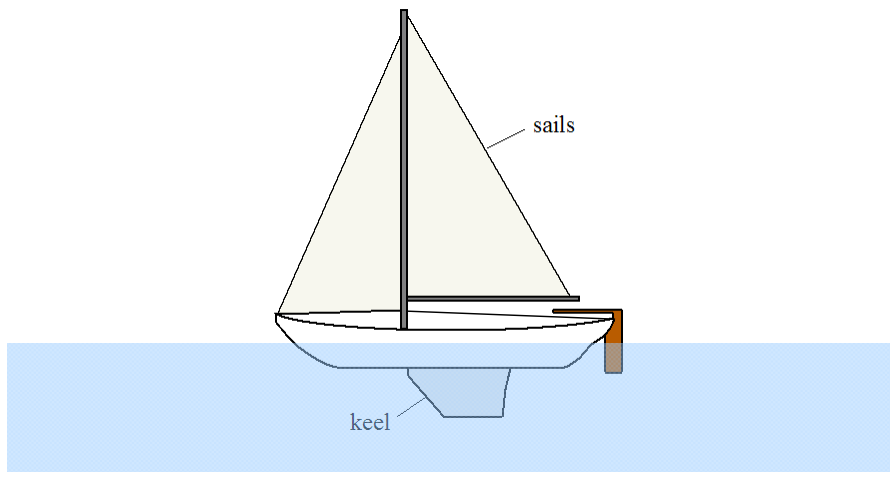
It depends on your strategy,

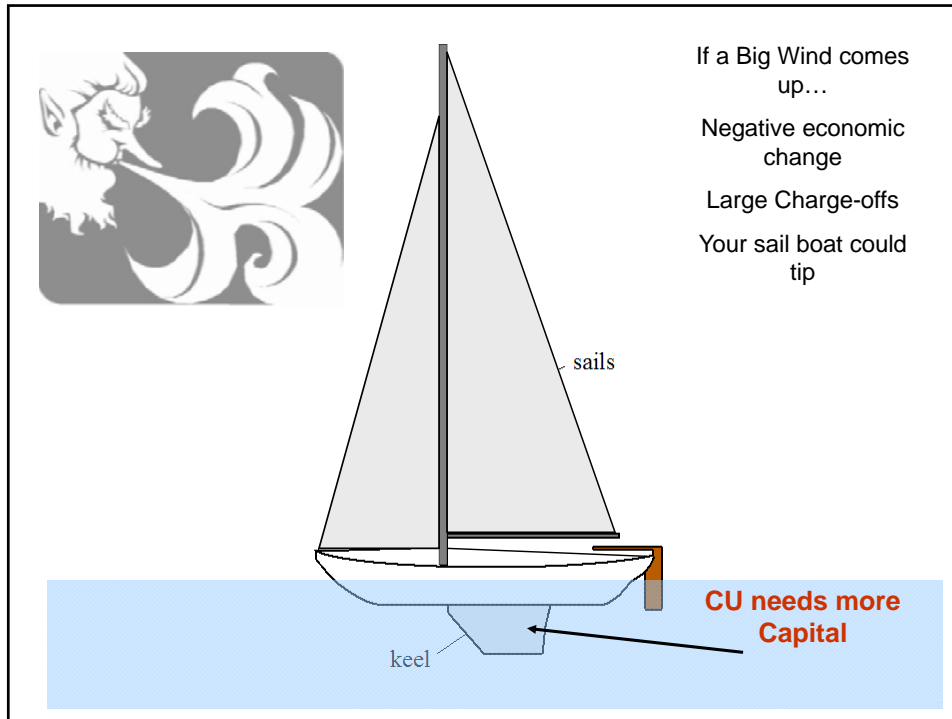
But there are some Basics:

- Capital to Assets Ratio
- ROA and Spread Analysis
- Loan to Share Ratio
- Delinquency and Charge-off Ratios
- But if you have Areas of High Risk, you'll need more

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If Assets grow
and Capital doesn't keep up,
the credit union becomes
unstable





What is Capital?

Capital is not cash

It is the accumulated earnings and losses since you started the credit union.

It is also called:

- **Net Worth**
- **Equity**

Capital always has two parts:

- Regular Reserve – rarely changes
- Undivided Earnings – changes with P and L

Capital Account Has Several Sub-Accounts

Capital has at least two parts:

- **Regular Reserve** – rarely changes
- **Undivided Earnings** – changes with Profit/Loss

And it probably has some other parts, such as:

- **Accumulated Unrealized Gain or Loss on Available for Sale Securities** – reports market value fluctuations of certain investments
- **Other Comprehensive Income (OCBA – other comprehensive basis of accounting)** – usually reports excess or shortage in Defined Benefit Program

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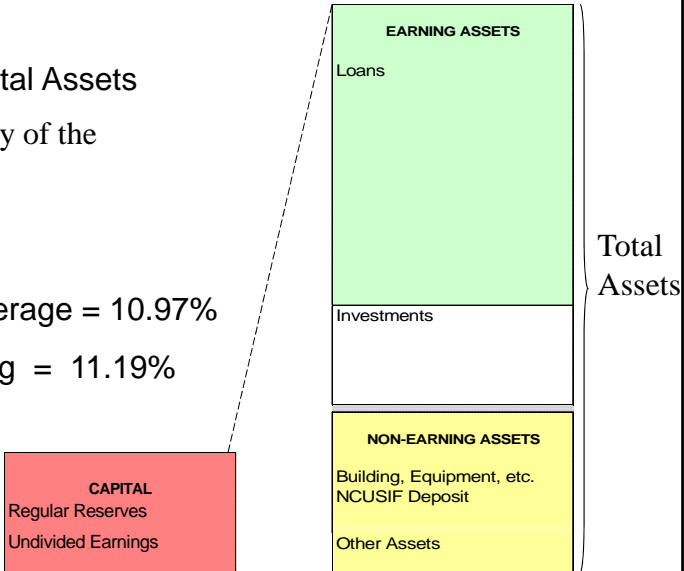
Capital To Assets Ratio

Total Capital/Total Assets

Measures stability of the credit union

National Average = 10.97%

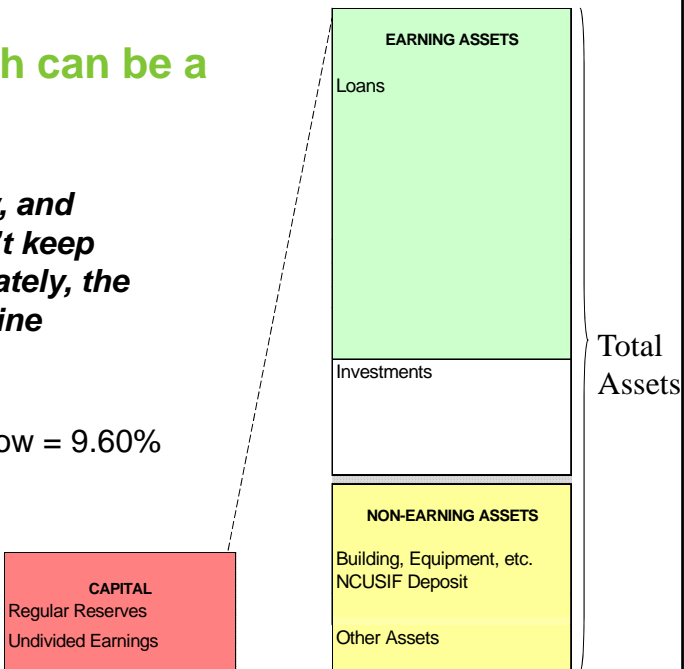
Montana Avg = 11.19%

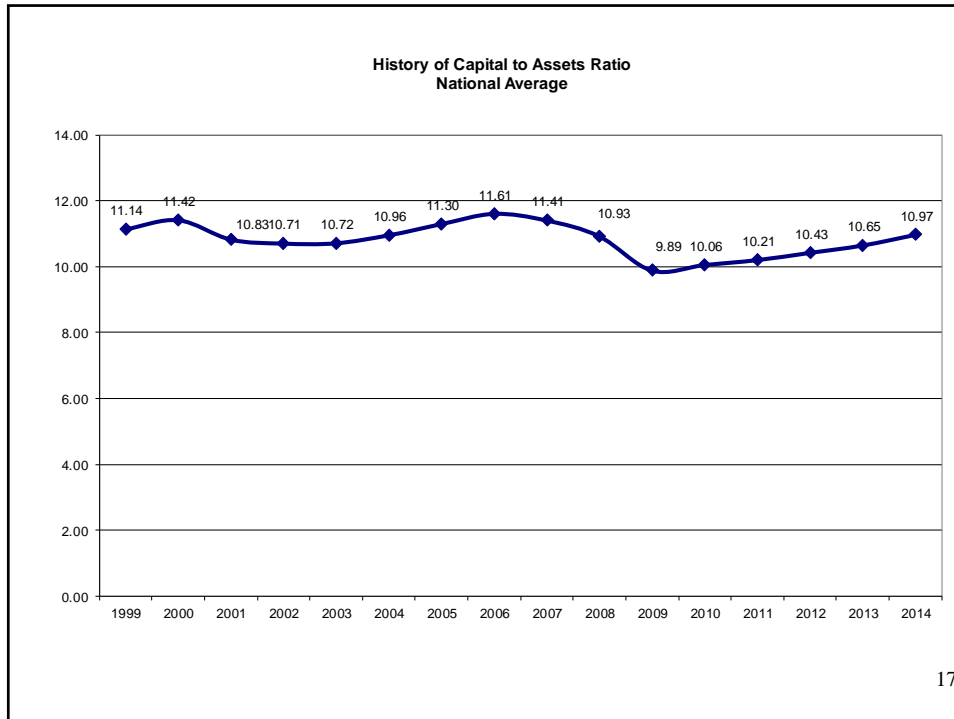


Why growth can be a problem

If Assets grow, and Capital doesn't keep up proportionately, the Ratio will decline

Woops! Now = 9.60%





NCUA Calculation a bit different

NET WORTH / TOTAL ASSETS

(Regular Reserve + Appropriation for Non-Conforming Investments [*SCU Only*] + Other Reserves + Undivided Earnings + Uninsured Secondary Capital [*Low-Income Designated CU Only*] + Net Income or (Loss)) / Total Assets *

*Total assets means a credit union's total assets as measured by either the:

- (i) average quarterly balance of the four most recent calendar quarters; or
- (ii) average monthly balance over the three calendar months of the calendar quarter; or
- (iii) average daily balance over the calendar quarter; or (iv) quarter-end call report balance for the calendar quarter.

How much Capital is enough?

Project worst 3 years possible

If at end, > 4%, you may have enough

Namely, three years with rapid asset growth and financial losses.

Prompt Corrective Action Rules

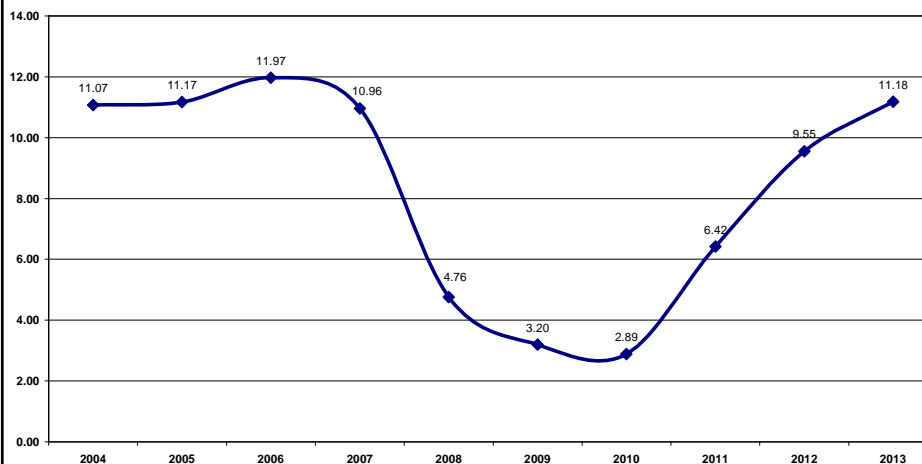
Depends on how much risk your assets and liabilities represent

Depends on level of growth

Capital can disappear fast

And typically grows back very slowly!

Capital to Assets Ratio in a Recession



Prompt Corrective Action

- 7% or higher Well capitalized
- 6%-6.99% Adequately capitalized
- 4%-5.99% Undercapitalized
- 2%-3.99% Significantly undercapitalized
- Less than 2% Critically undercapitalized

Prompt Corrective Action

- **Mandatory Supervisory Actions**
 - Below 7% - transfer 0.1% of Total Assets to Regular Reserve each month
 - Below 6%
 - Develop a Net Worth Restoration plan
 - Limit asset growth
 - No new member business loans
- **Discretionary Supervisory Actions**

The lower you go, the more authority the regulators take away from management and the Board

End of Part 1



Financial Literacy for Directors -Part 2

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Credit Union Profitability ROA and Spread Analysis

Spread Analysis:

Dividing the Income Statement amounts
by Average Assets

The 'Banking' Business

Credit unions make money 2 ways:

- Interest Income
- Non-Interest Income

Credit unions spend money 3 ways:

- Cost of Deposits (Cost of Funds)
- Operating Expenses (cost of people, buildings, and systems)
- Provision for Loan Losses (cost of bad loans)

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Which CU is Doing Better? Why we use Comparable ratios

	10 Bil CU	10 Mil CU
Interest income	\$ 496,000,000	563,000
Cost of funds	<u>(175,000,000)</u>	<u>(164,000)</u>
Net Interest Margin	321,000,000	399,000
Operating costs	(329,000,000)	(332,000)
Provision for loan losses	<u>(111,000,000)</u>	<u>(44,000)</u>
Net loss before other income	(120,000,000)	23,000
NII – Non-interest income (Fee income, Other)	<u>136,000,000</u>	<u>78,000</u>
Net Profit or Loss	<u><u>\$ 16,000,000</u></u>	<u><u>102,000</u></u>
 Total Capital	 \$ 500,000,000	 \$1,000,000

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Spread: Divide Income Statement by the Size of the Credit Union

As a % of Average Assets	10 Bil CU	10 Mil CU
Yield: Interest income	4.96%	5.63%
Less: Cost of funds	<u>(1.75)%</u>	<u>(1.64)%</u>
Net Interest Margin (NIM-Spread)	3.21%	3.99%
Less: Operating costs	(3.29)%	(3.32)%
Less: Provision for loan losses	<u>(1.11)%</u>	<u>(0.44)%</u>
Net loss before other income	(1.20)%	0.23%
Plus: NII-Non-interest income (Fee income, Other)	<u>1.36%</u>	<u>0.78%</u>
Equals: Return on Assets (ROA)	<u><u>0.16%</u></u>	<u><u>1.02%</u></u>
Capital to Assets Ratio	5.00%	10.00% ²⁹

Spread Analysis (ROA) Averages

As a % of Average Assets	USA 12/30/14	Montana 12/31/14
Yield: Interest income	3.38 ←	3.08
Less: Cost of funds	<u>(0.54)</u>	<u>(0.39)</u>
Net Interest Margin (NIM-Spread)	2.84	2.69
Less: Operating costs	(3.11)	(2.88)
Less: Provision for loan losses	<u>(0.28)</u>	<u>(0.12)</u>
Net loss before other income	(0.55)	(0.31)
Plus: Non-interest income	<u>1.35</u>	<u>0.99</u>
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What is Net Interest Margin?

Net Interest Margin (NIM)

- **AKA: Spread**
- You don't control your Interest Income,
 - the Market does
- You don't control you Interest Expense,
 - the Market does

You try to control the spread between the two:
NIM or Spread

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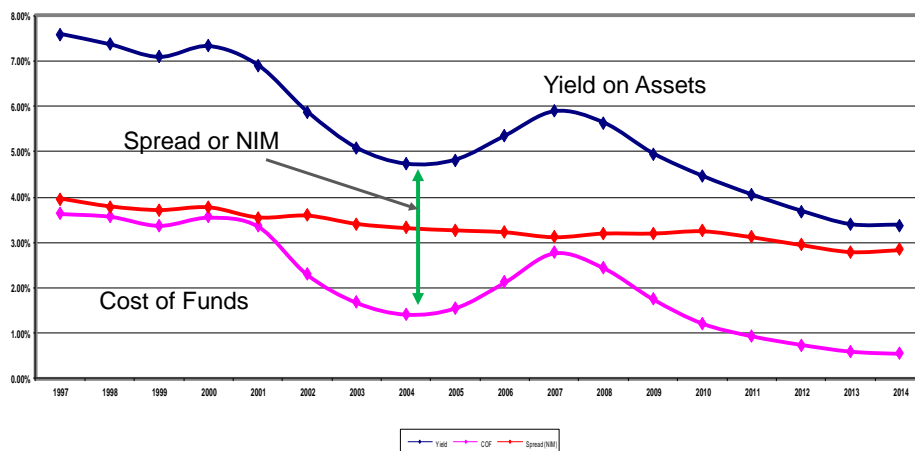
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Spread or Net Interest Margin (NIM)

Goal: Can you keep it stable... or grow it?



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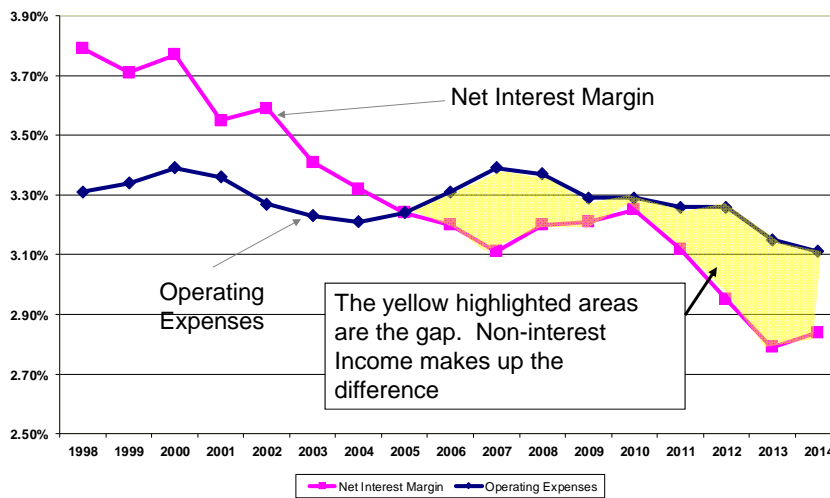
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Net Interest Margin (NIM-Spread)	2.84	2.69
Less: Operating costs	(3.11) ←	(2.88)
Less: Provision for loan losses	<u>(0.28)</u>	<u>(0.12)</u>
Net loss before other income	(0.55)	(0.31)
Plus: Non-interest income	<u>1.35</u>	<u>0.99</u>
Equals: Net Profit or Loss (ROA)	<u>0.80</u>	<u>0.68</u>

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Net Interest Margin & Operating Expense Ratio

All Credit Unions



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Spread Analysis (ROA) National Averages

As a % of Average Assets	USA 12/30/14	Montana 12/31/14
Yield: Interest income	3.38	3.08
Less: Cost of funds	<u>(0.54)</u>	<u>(0.39)</u>
Net Interest Margin (NIM-Spread)	2.84	2.69
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Non-Interest Income Not Just Fees!!!

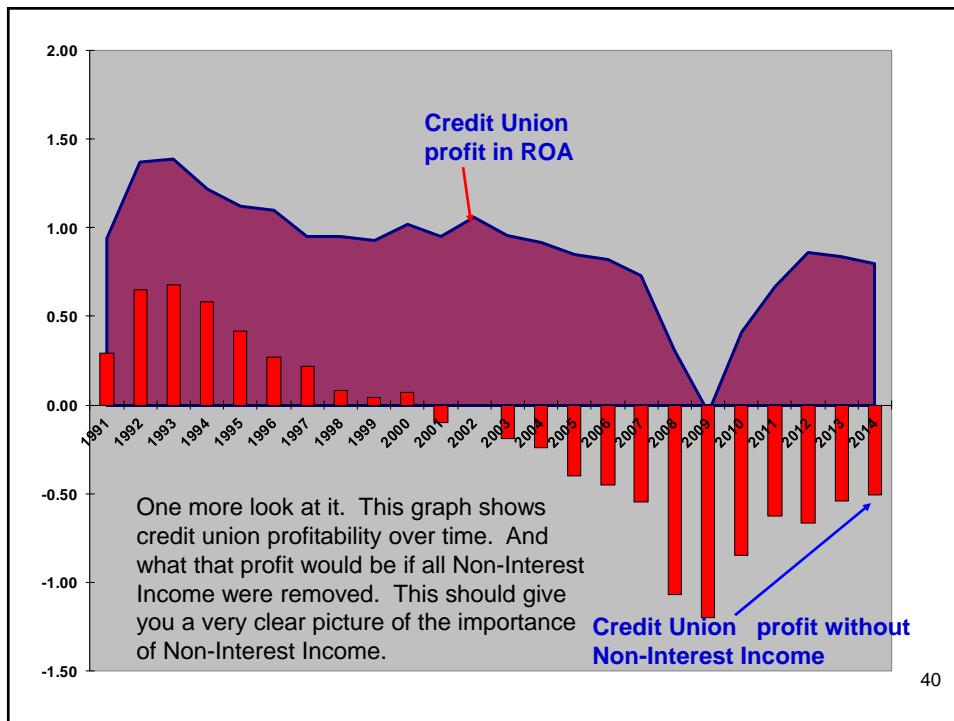
- **Fee Income** – NSF and late loan fee
- **Service Revenues** – Overdraft Privilege/
Courtesy Pay
- **Commission Income** – sales of
something
- **Interchange Income** – Debit and Credit
cards
- **Other Non-Interest Sources** – CUSO
selling some product or service

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Spread Analysis (ROA) National Averages

As a % of Average Assets	USA 12/30/14	Montana 12/31/14
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Spread Analysis (ROA) National Averages

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Different Business Models Different Spread Results

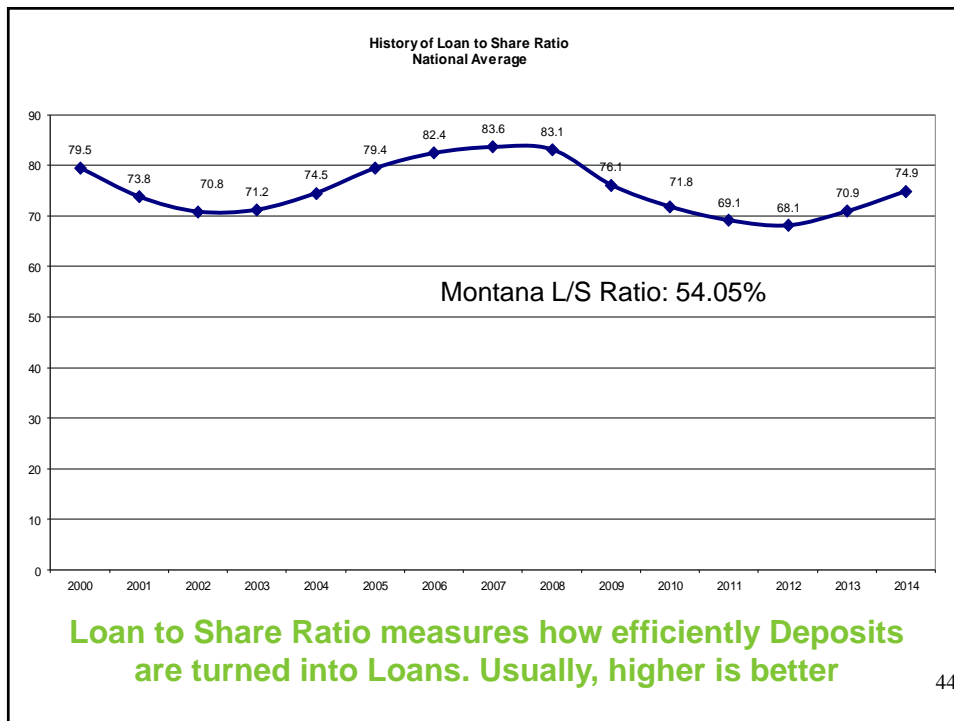
Know Your Model

	Avg CU	MOMMs CU	Low Op CU
Yield	3.08	9.00	3.52
Cost of funds	<u>(0.39)</u>	<u>(0.40)</u>	<u>(0.77)</u>
NIM	2.69	8.60	2.75
Operating exp	(2.88)	(8.50)	(1.48)
PLL	<u>(0.12)</u>	<u>(2.71)</u>	<u>(0.11)</u>
Net before NII	(0.31)	(2.61)	1.16
Non-Interest Income	<u>0.99</u>	<u>4.17</u>	<u>0.50</u>
ROA	<u><u>0.68</u></u>	<u><u>1.56</u></u>	<u><u>1.66</u></u>
Capital/Assets	11.2%	12%	20%

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Loan to Share Ratio – eg. 76.96%

Balance Sheet		Income Statement	
ASSETS			
EARNING ASSETS Cash \$ 16,000 LOANS Unsecured 13,500 Vehicle 110,000 Real estate 30,000 Total loans 153,500 Less allowance (1,100) Net Loans 152,400 INVESTMENTS Held to maturity 50,000 Avail for sale 5,000 TOTAL 55,000 Less Allowance for Investment Losses NON-EARNING ASSETS Property and equip 1,500 NCUSIF 2,000 Other assets 100 TOTAL ASSETS \$ 227,000		LIABILITIES & CAPITAL MISCELLANEOUS LIABS Miscellaneous Liabs \$ 15,100 SHARES Share savings 68,000 Share drafts 35,000 Money market 45,000 IRAs 41,000 CDs 4,000 Total Shares 193,000 CAPITAL Regular reserve 8,000 Undivided earn 10,900 Total Capital 18,900 TOTAL LIAB/CAP \$ 227,000	REVENUE INTEREST INCOME Loans \$11,000 Investments 1,500 TOTAL 12,500 COST OF FUNDS DIVIDENDS PAID 4,200 Net Interest Income 8,300 EXPENSES Provision for Loan Losses 1,000 Occupancy } Personnel } 7,800 Systems } TOTAL 8,800 NON-INTEREST INCOME Fee Income 700 Service Charges 800 Other Income 400 TOTAL 1,900 NET INCOME \$ 1,400



ALLOWANCE FOR LOAN & LEASE LOSSES

Amount based on estimates of what part of our total loans are currently impaired.

A.L.L.L. is a Contra-Asset, that means it takes away from the assets

CECL – Current Estimated Credit Losses: New Method coming

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CALCULATING THE ALLOWANCE FOR LOAN & LEASE LOSSES

Estimate based on:

- Segment loans by type with their historical loss ratio
- Consider all known relevant internal and external factors that may affect loan collectability
 - Market trends
 - Economy, local, regional, national
 - Policy changes and their affect on collections
- Apply ratio to current loan balance by segment

NCUA Letter to CUs 02-CU-09

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Balance Sheet		Income Statement
ASSETS		REVENUE
EARNING ASSETS		INTEREST INCOME
Cash	\$ 16,000	Loans \$11,000
LOANS		Investments 1,500
Unsecured	13,500	TOTAL 12,500
Vehicle	110,000	
Real estate	30,000	COST OF FUNDS
Total loans	153,500	DIVIDENDS PAID 4,200
Less allowance	(1,100)	Net Interest Income 8,300
Net Loans	152,400	
INVESTMENTS		EXPENSES
Held to maturity	50,000	Provision for Loan Losses 1,000
Avail for sale	5,000	Occupancy Personnel Systems } 7,800
TOTAL	55,000	TOTAL 8,800
Less Allowance for Investment Losses		NON-INTEREST INCOME
NON-EARNING ASSETS		Fee Income 700
Property and equip	1,500	Service Charges 800
NCUSIF	2,000	Other Income 400
Other assets	100	TOTAL 1,900
TOTAL ASSETS	\$ 227,000	NET INCOME \$ 1,400
LIABILITIES & CAPITAL		
MISCELLANEOUS LIAB		
Miscellaneous Liabs	\$ 15,100	
SHARES		
Share savings	68,000	
Share drafts	35,000	
Money market	45,000	
IRAs	41,000	
CSs	4,000	
Total Shares	193,000	
CAPITAL		
Regular reserve	8,000	
Undivided earn	10,900	
Total Capital	18,900	
TOTAL LIAB/CAP	\$ 227,000	

ALLOWANCE FOR LOAN & LEASE LOSSES

LOAN TYPE	Current Month End Balance	24 Month Loss Ratio	Allowance Needed
Unsecured	\$3,500	2.10%	\$74
Credit Card	\$10,000	3.50%	\$350
New Vehicle	\$35,000	0.70%	\$245
Used Vehicle	\$75,000	0.79%	\$593
Real Estate	\$30,000	0.10%	\$30
TOTAL	\$153,500	0.64%	\$1,291
	CURRENT BALANCE		\$1,100
	ADJUSTMENT REQUIRED		\$191

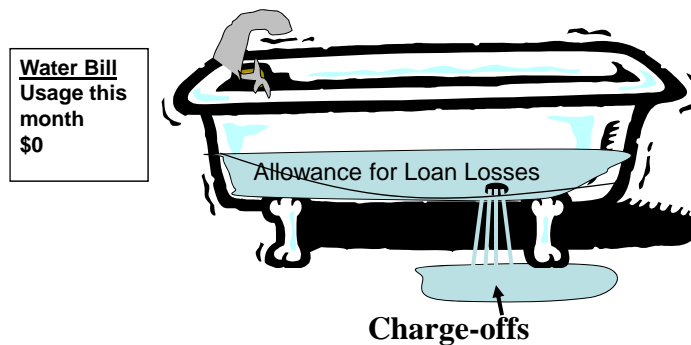
The ALL amount on the Balance Sheet would increase to this amount ...to get there, Provision for Loan Loss Expense be this amount for the month

Allowance for Loan and Lease Losses – Before charge-off



The ALLL is like a reservoir of loan losses ready to be used. The loss has already been incurred at the time the loan became impaired. We are just waiting for the loan to finally wither and drop

Loans Charged-off, Allowance is depleted



Charge-offs 'drain' the ALLL. These are not new losses. The losses have already been recognized. This is just when we finally remove the loan from the books.

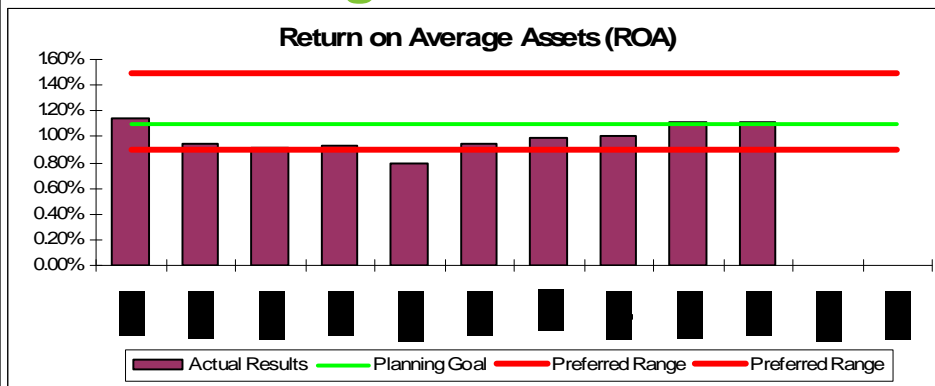
Allowance must be refilled.

The cost of refilling it goes through the Income Statement as an Expense: the Provision for Loan Losses Expense



The Provision for Loan Losses is the current monthly charge to restore the ALLL. It represents matching the expense to the period the loss actually occurred.

Using a Dash Board



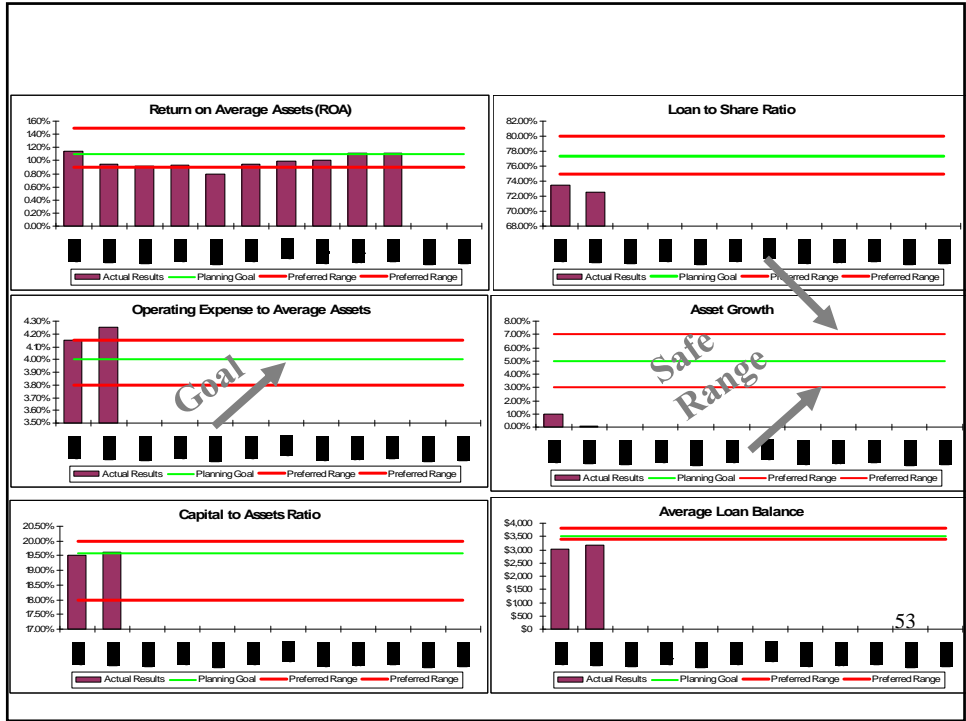
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